# Chapter 4: Assessment and Identification of Flood Mitigation Needs

## Task 4A: Flood Mitigation Needs Analysis

This chapter describes the process adopted by the RFPG to conduct the Flood Mitigation Needs Analysis (Task 4A), resulting in identifying the areas with the greatest gaps in flood risk knowledge and the areas of greatest known flood risk and mitigation needs. The Task 4A process is a big picture assessment that helps guide the subsequent Task 4B effort of identifying Flood Management Evaluations (FMEs), Flood Mitigation Projects (FMPs), and Flood Management Strategies (FMSs). **Table 4.1** provides a summary of the TWDB guidance and factors that were considered in the Flood Mitigation Needs Analysis.

*Table 4.1: TWDB Guidance and Factors to Consider*

| Guidance | Factors to Consider |
|---|---|
| **1.** Most prone to flooding that threatens life and property | • Buildings and Critical Facilities within 100-yr floodplain<br>• Low water crossings<br>• Agricultural and ranching areas in 100-yr floodplain |
| **2.** Locations, extent and performance of current floodplain management and land use policies and infrastructure | • Communities not participating in NFIP<br>• Disadvantaged / Underserved communities<br>• City / County design manuals<br>• Land use policies<br>• Floodplain ordinance(s) |
| **3.** Inadequate inundation mapping | • No mapping<br>• Presence of Fathom/BLE/FEMA Zone A flood risk data<br>• Detailed FEMA models older than 10 years |
| **4.** Lack of hydrologic and hydraulic (H&H) models | • Communities with zero or limited models |
| **5.** Emergency need | • Damaged or failing infrastructure<br>• Other emergency conditions |
| **6.** Existing modeling analyses and flood risk mitigation plans | • Exclude flood mitigation plans already in implementation<br>• Leverage existing models, analyses, and flood risk mitigation plans |
| **7.** Previously identified and evaluated flood mitigation projects | • Exclude flood mitigation projects already in implementation<br>• Leverage existing flood mitigation projects |
| **8.** Historic flooding events | • Disaster declarations<br>• Flood insurance claim information<br>• Areas with a history of flooding according to survey responses<br>• Other significant local events |
| **9.** Previously implemented flood mitigation projects | • Exclude areas where flood mitigation projects have already been implemented unless significant residual risk remains |
| **10.** Additional other factors deemed relevant by RFPG | • Alignment with RFPG goals<br>• Alignment with TWDB guidance principles<br>• Social Vulnerability Index (SVI) |

# *4A.1: Process and Scoring Criteria*

The main objectives of Task 4A are to identify the areas of greatest **known flood risk** and areas where the greatest **flood risk knowledge gaps** exist. The Task 4A analysis is based on a geospatial process that combines information from multiple datasets representing several of the factors listed in **Table 4.1** and provides a basis for achieving the Task 4A objectives. The geospatial process was developed in GIS and was based on the data collected in Tasks 1 through 3. A variety of data sources were used in this assessment, including GIS data collected directly from stakeholders during outreach efforts. During the data collection phase, stakeholders participated in an online survey where they were able to respond geographically on a map. The stakeholder responses, as of September 16, 2021, were directly applied to this assessment.

The geospatial assessment was prepared at a HUC-12 watershed level of detail, which is consistent with the minimum watershed size for Task 4B specified in the Technical Guidelines (at least 1 square mile). A Hydrologic Unit Code (HUC) is a unique code assigned to watersheds in the United States. As the watersheds get smaller, the number of units used to identify them get longer. Therefore, the smallest unit of division used to identify a watershed is 12 digits, or a HUC-12. The Trinity Region has a total of 471 HUC-12 watersheds, with an average size of 40 square miles.

A total of 13 data categories (listed later in **Table 4.2**) were used in the geospatial assessment. A scoring range was determined for each data category based on the statistical distribution of the data. The scoring ranges vary for each category based on the HUC-12s with the smallest and largest quantity. A uniform scoring scale of zero to five was adopted and each HUC-12 was assigned an appropriate score for each category. The scores for each HUC-12 under each category were then added to obtain a total score that was used to reveal the areas of greatest known flood risk. The Inadequate Inundation Mapping category (see Section 4A.1.c) was selected as the basis for determining the areas where the greatest flood risk knowledge gaps exist.

The following sections provide a brief description of the data categories included and how each HUC-12 watershed was scored. Note that the objective of the Task 4A process is to determine the factors that are present within a given HUC-12, and to what degree; not necessarily to determine the relative importance of each factor in determining flood risk. Therefore, no weight has been applied to emphasize one factor over another at this time.

## 4A.1.a. Areas Most Prone to Flooding that Threatens Life and Property

### *4A.1.a.1 Buildings in the 100-year Floodplain*

The buildings footprints dataset was provided by the TWDB on the Data Hub. This dataset was divided into point values based on the total number of buildings in the 100-year floodplain within each HUC-12. The count ranged widely throughout the region, with rural HUC-12s only having 1-2 buildings in the floodplain, while major urban centers may have over 1,000 buildings in the floodplain. The points breakdown for this metric is shown in **Table 4.2**.

### *4A.1.a.2 Low Water Crossings*

Low Water Crossings were identified in Tasks 1 and 2 and were downloaded from the TWDB Data Hub. Low Water Crossing data was also provided by communities through the data collection portal

developed for the Trinity Region. Task 2 also identified a few more based on bridge deck elevation from LiDAR data and flood depths. This category is scored based on the quantity of low water crossings occurring in a HUC-12. The points breakdown for this metric is shown in **Table 4.2**.

### *4A.1.a.3 Agricultural Areas at Risk of Flooding*

Agricultural areas have been defined for this task as a land use of either farming or ranching. Impacted agricultural areas are those intersecting the 100-year floodplain as determined in the flood exposure analysis (See Chapter 2). This layer will emphasize rural HUC-12s where agricultural impacts due to flooding are most prominent. The total impacted agricultural area in each HUC-12 was the criteria considered to assign points. The points breakdown for this metric is shown in **Table 4.2**.

### *4A.1.a.4 Existing Critical Facilities*

Critical facilities for this assessment include hospitals, schools, fire stations, shelters, and electric and gas lines. Critical facilities within the 100-year floodplain were identified as part of the flood exposure analysis (See Chapter 2). The stakeholders were able to update the existing critical facilities by adding or removing facilities in the web GIS survey from Task 2. A total of 159 critical facilities were added by survey participants and 26 were removed or corrected. This category is scored based on the total number of critical facilities identified within the 100-year floodplain. The points breakdown for this metric is shown in **Table 4.2**.

### *4A.1.a.5 Locations where the Road Floods*

This dataset is based on survey responses from Task 2. Survey participants identified roads that are prone to flooding by drawing lines on the interactive map. A total of 49 locations were added by survey participants. Although this factor primarily addresses water over roadways, it also represents potential urban flooding scenarios. Each line entered was given 1 point. If the line was drawn across multiple HUC-12s, then both HUCs receive a point. The points breakdown for this metric is shown in **Table 4.2**.

*Table 4.2: Task 4A Scoring Ranges: Areas Most Prone to Flooding that Threatens Life and Property*

| Score (points) | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Number of Buildings | 0 | 1-50 | 51-250 | 251-500 | 501-750 | 751+ |
| Number of Low Water Crossings | 0 | 1-5 | 6-10 | 11-15 | 16-20 | 21+ |
| Total Agricultural Area (sq. mi.) | 0 | 0.01-0.35 | 0.36-2 | 2.01-3 | 3.01-5.5 | 5.51+ |
| Number of Critical Facilities | 0 | 1-5 | 5-10 | 11-25 | 26-50 | 51+ |
| Number of Locations where Roads Flood | 0 | 1 | 2 | 3 | 4 | 5+ |

## 4A.1.b. Current Floodplain Management and Land Use Policies and Infrastructure

### *4A.1.b.1 Communities Not Participating in the NFIP*

Participation in the NFIP was considered as a proxy for having adequate floodplain management regulations in a given community. The NFIP participation status for each community is presented in Chapter 3. Non-participating communities are not eligible for flood insurance under the NFIP. Furthermore, if a presidentially declared disaster occurs as a result of flooding, no federal financial assistance can be provided to non-participating communities for repairing or reconstructing insurable buildings in Special Flood Hazard Areas. Therefore, this analysis considered non-NFIP communities as being more vulnerable to flooding risks. If most of the HUC-12 (>= 50%) intersected a non-NFIP community it was assigned 5 points. Otherwise, no points were allocated. Non-NFIP communities are mostly clustered in the mid-basin area, with others dispersed throughout the region. The points breakdown for this metric is shown in **Table 4.3.**

*Table 4.3: Task 4A Scoring Range: Current Floodplain Management and Land Use Policies and Infrastructure*

| Score (points) | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Community | NFIP Participant | | | | | Non-NFIP Participant |

## 4A.1.c. Areas Without Adequate Inundation Maps

### *4A.1.c.1 Inadequate Inundation Mapping*

This analysis is completed using the ExFldHazard layer. This layer contains existing seamless floodplain quilt inundation boundaries gathered for the Trinity Region in Task 2. The floodplain quilt attributes includes the source of the floodplain data. Based on the definitions of the source data from TWDB[1], the RFPG assumed that the sources that represented adequate inundation mapping data are:

- National Flood Hazard Layer (NFHL) Preliminary Data (Zones AE, AH, AO,VE, and X)
- NFHL Effective Data (Zones AE, AH, AO, VE, and X)

The following data sources were considered inadequate inundation mapping data in this assessment as they are not considered appropriate for regulatory purposes:

- Base Level Engineering (BLE)
- NFHL Zone A
- First American Flood Data Services (FAFDS)
- Fathom

The total floodplain area (from all sources in the floodplain quilt) and the amount of inadequate floodplain data in each HUC-12 were calculated. This computation produced a percentage of the HUC-12 floodplain data that is considered inadequate for the purposes of this assessment. The HUC-12s with the highest percentages of inadequate data appear in the very far north and the middle of the region. The points breakdown for this metric is shown in **Table 4.4**.

[1] https://twdb-flood-planning-resources-twdb.hub.arcgis.com/pages/flood-quilt-pri

*Table 4.4: Task 4A Scoring Range: Areas Without Adequate Inundation Maps*

| Score (points) | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| % Inadequate | 0 | 0.01-20% | 21-50% | 51-75% | 76-90% | 90%+ |

### 4A.1.d. Areas Without Hydrologic & Hydraulic Models

The existing hydrologic and hydraulic (H&H) models that were identified for the Trinity Region are presented in Chapter 2. A separate scoring criteria was not developed for this category since the risk associated with lack of technical data is already being considered by the "Inadequate Inundation Mapping" category (Section 4A.1.c.1). Any areas with detailed mapping are presumed to have hydrologic and hydraulic modeling.

### 4A.1.e. Areas with Emergency Needs

The RFPG has developed a definition for Emergency Needs based on regional needs and input from the planning committee. Areas with Severe Repetitive Loss, critical facilities within the 1% annual chance flood area, and locations identified as having high number of fatalities associated with it are the three metrics the Trinity region has decided to use to attribute as Emergency Need. For a more detailed description, please see the Emergency Needs section in 4B.

### 4A.1.f. Existing Modeling Analyses and Flood Risk Mitigation Plans

Hazard Mitigation Action Plans were identified for all 38 Counties within the Trinity Region. Therefore, this category was not included in the assessment since it does not provide any differentiation regarding flood risk within the Region.

### 4A.1.g. Flood Mitigation Projects Previously Identified

Per the public survey responses, only two (2) projects were identified as in progress and having dedicated funding in place (see Section 2A.2.b). Due to the limited data available, this category was not included in this assessment.

### 4A.1.h. Historic Flooding Events

#### *4A.1.h.1 Report Flood Concerns*

This category was generated by the community responses to the survey in Task 2. A total of 110 data point data locations were provided by survey participants. This dataset primarily includes flood concerns related to undersized storm drain systems and localized street flooding. The score for this factor was based on the count of flood concern locations within each HUC-12 as input by survey participants. The points breakdown for this metric is shown in **Table 4.5**.

#### *4A.1.h.2 FEMA Claims*

This dataset compiles all the FEMA flood claims within the Trinity Region as of July 31st, 2021. The geospatial data assigned to the claims was highly redacted. Therefore, the RFPG opted for using the cities to which the flood claims were assigned. Each city was divided into the HUC-12s that intersected the city limits. The number of flood claims for each city was divided proportionately amongst the HUC-

12s composing each city. Most of the claims recorded in this dataset occurred in the DFW metropolitan area. The points breakdown for this metric is shown in **Table 4.5**.

#### *4A.1.h.3 Historic Storm Events*

The occurrence of historic storms events was evaluated using the NOAA National Centers for Environmental Information Storm Events Database[2]. This database compiles historic storm events from 1950 to 2021. This dataset is an official NOAA publication which documents:

a) The occurrence of storms and other significant weather phenomena having sufficient intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce.
b) Rare, unusual, weather phenomena that generate media attention.
c) Other significant meteorological events, such as record maximum or minimum temperatures or precipitation that occur in connection with another event.

Storm events are included in this database following the procedures established in the National Weather Service Directive number 10-1605 – Storm Data Preparation[3]. Storm events are subdivided into 48 categories, which include flood related events as well as other natural hazards. Three primary categories were selected for this assessment: Floods, Flash Floods, and Heavy Rain. A total of 837 storm events were reported for the Trinity Region between 1996 and 2020, consisting of 158 floods, 660 flash floods, and 19 heavy rain events. Each event includes the source of data and a narrative describing the details of the event.

The number of historic storm events occurring within each HUC-12 was tabulated and scores were assigned according to the points breakdown shown in **Table 4.5**.

#### *4A.1.h.4 Damages from Historic Storms*

In addition to the frequency of historic storm events, the severity of these events was also considered in the assessment. Event severity was represented by reported damages, injuries, and deaths associated with each event as recorded in the Historic Storm Events database. A score of 0 to 5 points was first assigned based on reported property damages (see scoring scale in **Table 4.5**). One additional point was added if injuries were reported, and 2 additional points if deaths were reported.

#### *4A.1.h.5 Areas with a History of Flooding / Areas that need Mitigation*

The data collection survey performed in Task 2 also provided an opportunity for participants to mark areas in their communities that repetitively flood or that they consider to be in need of mitigation. A total of 87 data points were provided by survey participants. Within each HUC-12 boundary, the number of areas marked were scored according to the scale shown in **Table 4.5**. This dataset is limited to locations identified by stakeholders in the Task 2 survey.

[2] https://www.ncdc.noaa.gov/stormevents/details.jsp
[3] https://www.nws.noaa.gov/directives/sym/pd01016005curr.pdf

*Table 4.5: Task 4A Scoring Ranges: Historic Flood Events*

| Score (points) | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Number of Flood Concerns | 0 | 1 | 2 | 3 | 4 | 5+ |
| Number of FEMA Claims | 0 | 1-5 | 6-10 | 11-30 | 31-50 | 51+ |
| Number of Historic Storms Events | 0 | 1-2 | 3-4 | 5-6 | 7-8 | 9+ |
| Property Damages ($)* | 0 | 1-10,000 | 10,001-30,000 | 30,001-100,000 | 100,001-500,000 | 500,000+ |
| Number of Areas with History of Flooding or need Mitigation | 0 | 1 | 2 | 3 | 4 | 5+ |

* One additional point was added if injuries were reported, and 2 additional points if deaths were reported.

### 4A.1.i. Previously Implemented Flood Mitigation Projects

Per the data collection survey responses, no flood mitigation project was identified as previously implemented (see Section 2B.1.a) and therefore this category was not included in this assessment.

### 4A.1.j. Other Factors

#### *4A.1.e.1 Social Vulnerability Index (SVI)*

As discussed in chapter 2, SVI refers to the potential negative effects on communities caused by external stresses on human health. Such stresses include natural or human-caused disasters, or disease outbreaks. SVI values for the State of Texas were downloaded from the Centers for Disease Control and Prevention's (CDC) Agency for Toxic Substances and Disease Registry (ATSDR) website[4]. The most recent SVI values published on the website (2018) were used in this assessment. SVI values are assigned per census tract, which needed to be converted to SVI per HUC-12. SVI values were assigned to each HUC-12 based on an area-weighted average. The percent of a census tract that intersects a HUC-12 was multiplied by the SVI for the census tract. This procedure is followed for all census tracts intersecting a HUC-12 boundary, and those weighted SVI values are added together to produce one SVI value for each HUC-12. The SVI ratings vary between 0-1 and were scored according to **Table 4.6**. The higher the SVI, the higher the vulnerability of a community; the lower the SVI, the higher the resilience. Overall, the HUC-12s in the middle and lower portions of the region resulted in the highest SVI values.

*Table 4.6: Task 4A Scoring Ranges: SVI ratings*

| Score (points) | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| SVI rating | 0.01-0.16 | 0.17-0.33 | 0.34-0.50 | 0.51-0.67 | 0.67+ |

[4] https://www.atsdr.cdc.gov/placeandhealth/svi/index.html

## *4A.2: Scoring Example*

Five HUC-12 basins were selected to demonstrate in detail the scoring process described in **Section 4A.1**. The selected basins are located in the same general area of the region, on the Lower Trinity-Kickapoo and Lower Trinity subbasins, south of Lake Livingston (see **Figure 4.1**). These 5 basins, labeled A through E for simplicity, had a wide variety of scores for each category and resulted in total scores that represent the entire range of known flood risk levels as defined in this assessment.

*Figure 4.1: Example Task 4A HUC-12 Scoring*

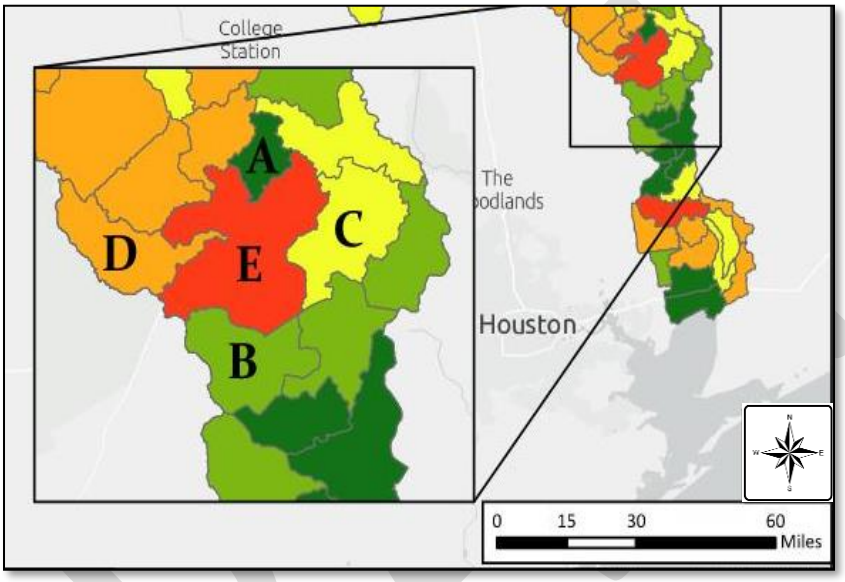



**Table 4.7** shows the detailed scores for the selected HUC-12 basins. These results are presented graphically in **Figure 4.2**. This data demonstrates how the combination of different factors can help determine if a given HUC-12 has a high level of known flood risk relative to the others. In this example, basin E scored high in several categories, which resulted in the highest total score. Conversely, basin A only scored high in the SVI category, indicating a much lower level of known flood risk. However, the fact that a HUC-12 results in a low score does not necessarily mean that there is no flood risk in this area. The results for basin B show a relatively low total score, but it scored high in the SVI and inadequate inundation mapping categories. In addition, there are some buildings, critical facilities, and low water crossings that would be impacted by the 1% annual chance flood event. This clearly indicates that there is still a level of flood risk associated to this area, but not as significant as in basin E.

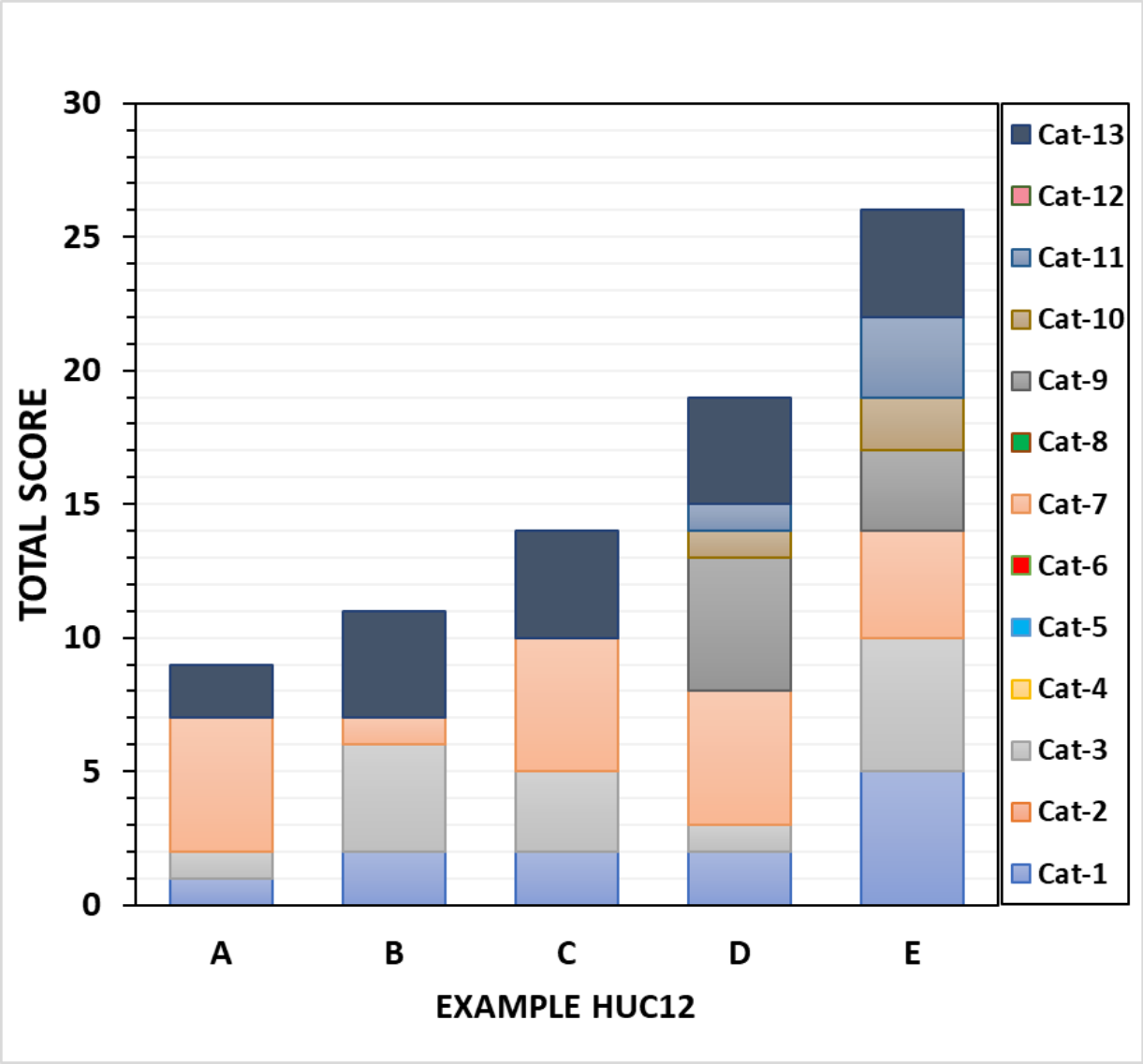
The Inadequate Inundation mapping category was selected as the basis for determining the areas where the greatest flood risk knowledge gaps exist. In this example, four of the selected HUC-12s scored high on this category, indicating that inundation maps in these areas are considered inadequate. This result indicates that there is significant uncertainty regarding floodplain boundaries in these areas and studies (FMEs) would be needed to reduce that uncertainty and in turn minimize flood risk.

*Table 4.7: Example Task 4A HUC-12 Scoring*

| Category / Score | HUC12 | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| Category 1 - # of Buildings | 2 | 191 | 203 | 56 | 1018 |
| Category 1 - Score | 1 | 2 | 2 | 2 | 5 |
| Category 2 - # of Crossings | 0 | 0 | 0 | 0 | 0 |
| Category 2 - Score | 0 | 0 | 0 | 0 | 0 |
| Category 3 - Agricultural Area Impacted ($mi^2$) | 0.09 | 4.64 | 2.27 | 0.34 | 16.67 |
| Category 3 - Score | 1 | 4 | 3 | 1 | 5 |
| Category 4 - # of Critical Facilities | 0 | 0 | 0 | 0 | 0 |
| Category 4 - Score | 0 | 0 | 0 | 0 | 0 |
| Category 5 - # of Locations where Road Floods | 0 | 0 | 0 | 0 | 0 |
| Category 5 - Score | 0 | 0 | 0 | 0 | 0 |
| Category 6 - NFIP Community | 0 | 0 | 0 | 0 | 0 |
| Category 6 - Score | 0 | 0 | 0 | 0 | 0 |
| Category 7 - Inadequate Inundation Mapping | 100% | 5% | 96% | 100% | 84% |
| Category 7 - Score | 5 | 1 | 5 | 5 | 4 |
| Category 8 - # of Flood Concerns | 0 | 0 | 0 | 0 | 0 |
| Category 8 - Score | 0 | 0 | 0 | 0 | 0 |
| Category 9 - # of FEMA Claims | 0 | 0 | 0 | 76 | 12 |
| Category 9 - Score | 0 | 0 | 0 | 5 | 3 |
| Category 10 - # of Historic Storm Events | 0 | 0 | 0 | 1 | 3 |
| Category 10 - Score | 0 | 0 | 0 | 1 | 2 |
| Category 11 - Damages ($) | 0 | 0 | 0 | $ 10,000 | $ 35,000 |
| Category 11 - Score* | 0 | 0 | 0 | 1 | 3 |
| Category 12 - # of Areas with History of Flooding | 0 | 0 | 0 | 0 | 0 |
| Category 12 - Score | 0 | 0 | 0 | 0 | 0 |
| Category 13 - SVI Rating | 0.23 | 0.57 | 0.59 | 0.60 | 0.61 |
| Category 13 - Score | 2 | 4 | 4 | 4 | 4 |
| **Total Score** | **9** | **11** | **14** | **19** | **26** |

*HUC-12 did not have any injuries or deaths associated with the Historic Storms; therefore, no additional points were given for this category.

*Figure 4.2: Distribution of Points and Total Score for HUC-12 examples*




## *4A.3: Analysis Results*

The process and scoring methodology described above was implemented across the entire Trinity Region. As previously discussed, this assessment was performed to address the two goals of Task 4A. The first goal is to identify the areas where the greatest **flood risk knowledge gaps** exist. The Inadequate Inundation Mapping category was selected as the basis for identifying these areas. Based on the data utilized in this preliminary assessment, approximately two-thirds of the Trinity watershed is considered inadequately mapped (as indicated by the red HUC-12s in **Figure 4.3**). Note that the red HUC-12s may contain studies that have been completed but are not yet regulatory products.

The second goal is to determine the areas of greatest **known flood risk** and flood mitigation needs. For each HUC-12 in the Trinity Region, the scores from the 13 categories were added to obtain a total score. All categories have an equal representation in the total score. This analysis also included the Inadequate

Inundation Mapping category because uncertainty itself is a risk. Based on the distribution of the final scores in this preliminary assessment, the top 10% were colored red, and the top 30% were colored either red or orange to highlight the areas with the greatest known flood risks (**Figure 4.4**). It is important to note that the fact that a HUC-12 resulted in a low score does not necessarily mean that there is no flood risk in this area, only that this risk is relatively low compared to the others.

The maps resulting from the Task 4A assessment served as a guide to the RFPG's subsequent efforts in Task 4B. The red and orange HUC-12s in **Figure 4.3** highlight the areas in the Trinity watershed where potentially feasible flood risk studies (FMEs) should be considered as part of Task 4B. The red and orange HUC-12s in **Figure 4.4** emphasize watersheds where the RFPG should strive to identify and implement FMSs and FMPs as part of Task 4B to reduce the known flood risks within those areas.

*Figure 4.3: Flood Risk Knowledge Gaps*

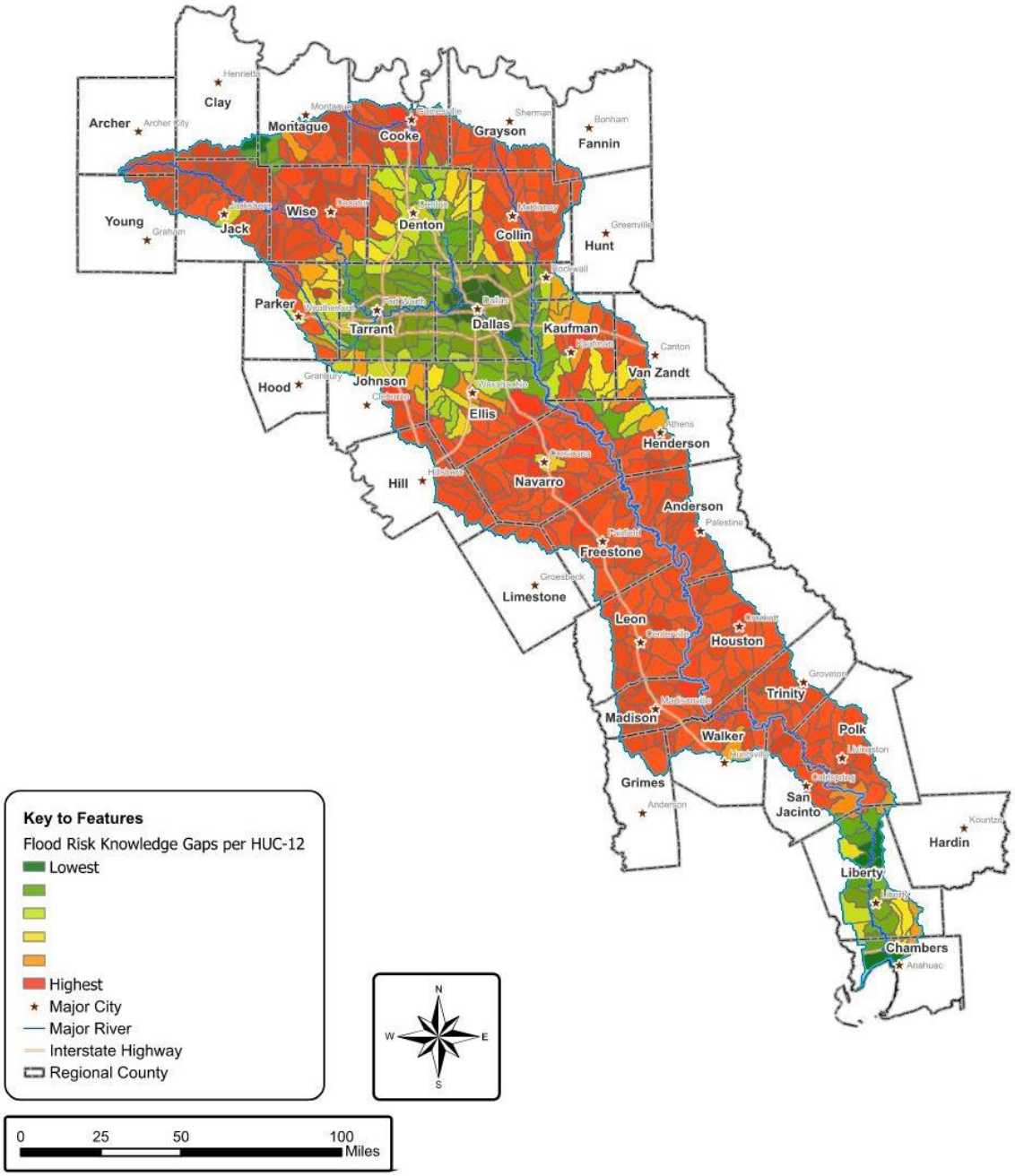
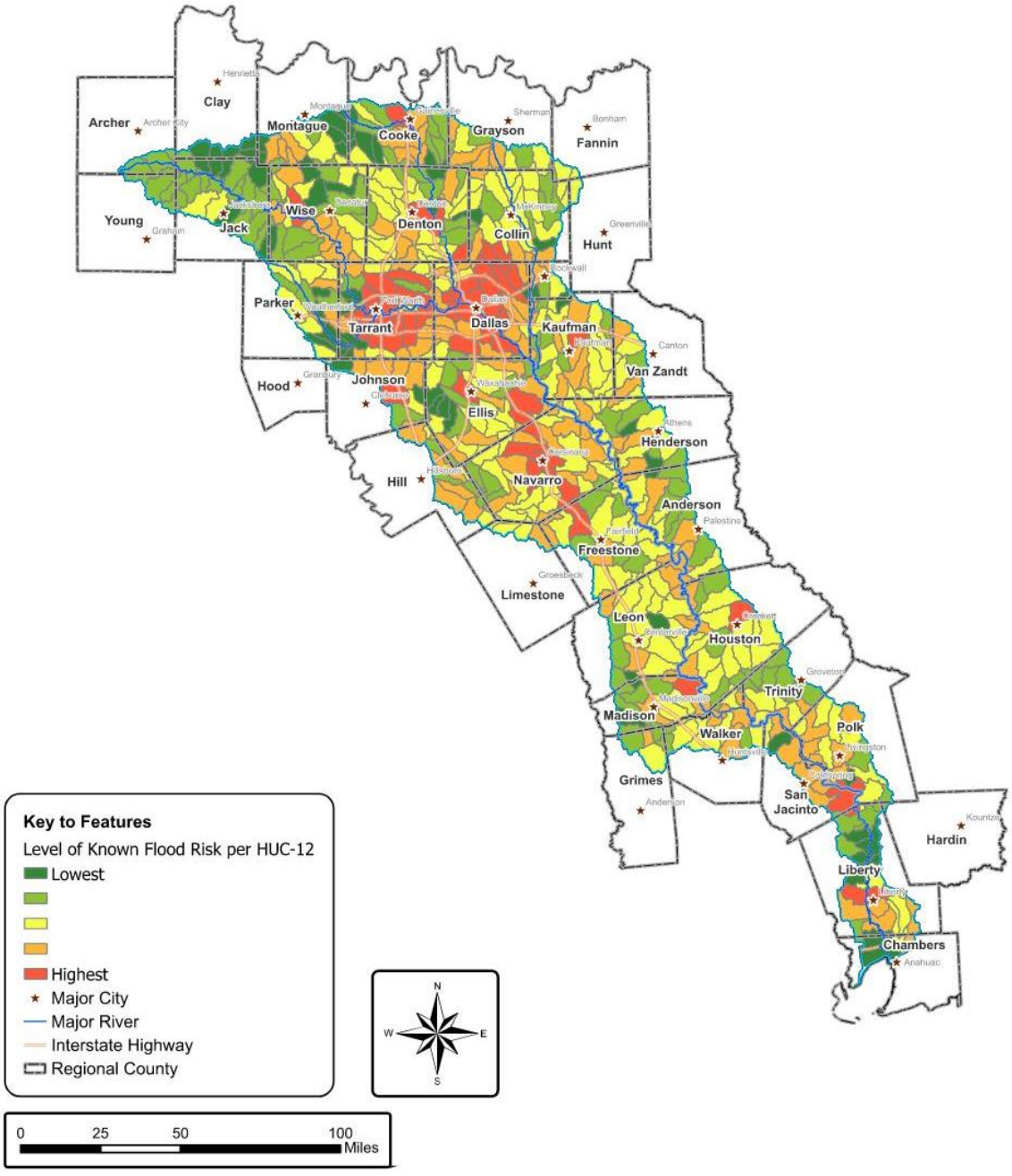


*Figure 4.4: Areas of Greatest known Flood Risk*



# Task 4B: Identification and Evaluation of Potential Flood Management Evaluations, Potentially Feasible Flood Management Strategies, and Flood Mitigation Projects

## *4B.1 Process to Identify Flood Management Evaluations (FME), Flood Management Strategies (FMS), and Flood Mitigation Projects (FMP)*

The goal of Task 4B is to identify and evaluate a wide range of potential actions to define and mitigate flood risk across the basin. These actions have been broadly categorized into three distinct types, as defined below:

- **Flood Management Evaluation (FME)**: a proposed flood study of a specific, flood prone area that is needed in order to assess flood risk and/or determine whether there are potentially feasible FMSs or FMPs.
- **Flood Mitigation Project (FMP)**: a proposed project, either structural or non-structural, that has non-zero capital costs or other non-recurring cost and when implemented will reduce flood risk or mitigate flood hazards to life or property.
- **Flood Management Strategy** (**FMS**): is a proposed plan to reduce flood risk or mitigate flood hazards to life or property.

Identification of potential FMEs and potentially feasible FMPs and FMSs begins with the execution of the Flood Mitigation Needs Analysis to identify the areas with the greatest gaps in flood risk knowledge and the areas of greatest known flood risk. This process and its outputs have been described previously in Section 4A. Based on the results of this analysis, several sources of data were used to develop a list of potential flood risk reduction actions for addressing the basin's needs. The data includes information compiled under previous tasks, such as:

- Existing flood infrastructure, flood projects currently in progress, and known flood mitigation needs (Task 1);
- Existing and future flood risk exposure and vulnerability (Tasks 2A and 2B);
- Floodplain management and flood protection goals and strategies developed by the RFPG for the Region (Task 3A and 3B); and
- Stakeholder input.

Once these datasets were identified and evaluated through initial screening and data gathering under this task, then the FMEs, FMSs, and FMPs were further evaluated in order to compile the necessary technical data for the RFPG to decide whether or not to recommend these actions, or a subset of these actions, as part of Task 5.

This first Regional Flood Planning cycle relies primarily on compiling readily available information to determine appropriate flood mitigation actions to recommend for inclusion in the Regional Flood Plan, rather than performing technical analyses to identify new actions.

The list of potential FMEs and potentially feasible FMSs and FMPs were compiled based on contributions from the RFPG and other regional stakeholders from sources such as previous flood studies, drainage master plans, flood protection studies, and capital improvement studies. In addition, plans that were

considered in the flood planning process include local and countywide Hazard Mitigation Plans, various Ordinances, and Planning and Zoning documents, as well as FEMA National Flood Hazard data. Each of these documents and datasets provide insight into the jurisdiction's capabilities, the guidelines of each location, and the potential challenges of implementing FMEs, FMSs, and FMPs within the flood planning area. A list of data sources relevant to Flood Plan development for Region 3 are provided **Tables 4-8** through **4-10**.

In all, 38 counties and 7 cities within the Trinity Region had Hazard Mitigation Plans ranging from 2013 to 2021. Several communities provided their zoning and land use documents. Drainage studies, Flood Prevention Ordinances, Regulations for Floodplain Managements, and Flood Control Ordinances were also included in the planning process. All participating counties have data in the National Flood Hazard Layer, however, Trinity County does not have countywide data available. Additionally, seven counties have preliminary flood studies in progress to go effective in the near future.

*Table 4.8: Local Plans, Manuals, and Ordinances Submitted to the RFPG through the Survey*

| Document | Year |
|---|---|
| Anderson County Floodplain Resolution | 2010 |
| Chambers County Drainage Criteria Manual | 2020 |
| Chambers County Floodplain Regulations | 2015 |
| City of Addison Code of Ordinances | 2021 |
| City of Aledo Subdivision Ordinance | 2007 |
| City of Allen Land Development Code | 2020 |
| City of Alma Planning and Zoning | n/a |
| City of Alvarado Code of Ordinances | 2018 |
| City of Ames Subdivisions | 2021 |
| City of Anahuac Code Compliance | 2021 |
| City of Anna Code of Ordinances | 2021 |
| City of Burleson Design Standards Manual | 2008 |
| City of Burleson Future Land Use Map | n/a |
| City of Burleson Subdivision Regulations | 2021 |
| City of Combine Code of Ordinances | 2018 |
| City of Crockett Zoning Map | 2006 |
| City of Dallas Floodplain and Escarpment Zone Regulations | n/a |
| City of Decatur Executed Flood Control Ordinance | 2011 |
| City of Decatur Future Land Use Map | n/a |
| City of Decatur Zoning | n/a |
| City of Keene Flood Hazard Reduction | 2012 |
| City of Mansfield Flood Damage Prevention Ordinance | 2013 |
| City of Mansfield Storm Water Management Design Manual | 2010 |
| City of McKinney Engineering Design Manual | 2021 |
| City of McKinney Stormwater Management | 2018 |
| City of Mesquite Engineering Design Manual | 2020 |
| City of Mesquite Stormwater and Flood Prevention Ordinance | 2012 |
| City of Mont Belvieu Infrastructure Design and Construction Manual | 2020 |
| City of Mont Belvieu City Limits and ETJ Map | 2021 |
| City of Newark Floodplain Ordinance | 2001 |
| City of Retreat Code of Ordinances | 1986 |
| City of Sanger Comprehensive Land Use Plan | 2007 |
| City of Sanger Future Land Use Map | 2007 |
| City of Talty Flood Damage Prevention Ordinance | 2009 |
| City of Tioga Flood Damage Prevention Ordinance | 1989 |
| City of Tom Bean Comprehensive Zoning Ordinance and Zoning Ma | 2008 |

*Table 4.9: Local Plans, Manuals, and Ordinances Submitted to the RFPG through the Survey (Continued)*

| Document | Year |
|---|---|
| City of Whitesboro Floodplain Ordinance | 2005 |
| Denton County Floodplain Regulations | 2019 |
| Denton County Subdivision Rules and Regulations | 2009 |
| Fannin County Flood Damage Prevention Ordinance | 2011 |
| Fannin County Lake Zoning Regulations | 2018 |
| Kaufman County Floodplain Management Court Order | 2019 |
| Kaufman County Subdivision and Land Development Regulations | 2019 |
| Madison County Flood Damage Prevention Order | 2011 |
| Polk County Flood Damage Prevention Order | 2019 |
| Polk County Subdivision Regulations | 2021 |
| Town of Annetta North Floodplain Ordinance | 2018 |
| Town of Dish Comprehensive Plan Zoning Map | n/a |
| Town of Dish Zoning Map | 2018 |
| Town of St Paul Flood Damage Prevention | 2009 |
| Walker County Regulations for Flood Plain Management | 1987 |

*Table 4.10: FEMA Flood Insurance Studies*

| Entity Name | Flood Insurance Study Name | Effective Date |
|---|---|---|
| Anderson | Anderson County, Texas and Incorporated Areas | 2010 |
| Archer | Archer County, Texas and Incorporated Areas | 2021 |
| Chambers | Chambers County, Texas and Incorporated Areas | 2018 |
| Clay | Clay County, Texas and Incorporated Areas | 1991 |
| Collin | Collin County, Texas and Incorporated Areas | 2017 |
| Cooke | Cooke County, Texas and Incorporated Areas | 2008 |
| Dallas | Dallas County, Texas and Incorporated Areas | 2019 |
| Denton | Denton County, Texas and Incorporated Areas | 2020 |
| Ellis | Ellis County, Texas and Incorporated Areas | 2013 |
| Fannin | Fannin County, Texas and Incorporated Areas | 2011 |
| Freestone | | n/a |
| Grayson | Grayson County, Texas and Incorporated Areas | 2010 |
| Grimes | Grimes County, Texas and Incorporated Areas | 2012 |
| Hardin | Hardin County, Texas and Incorporated Areas | 2010 |
| Henderson | Henderson County, Texas and Incorporated Areas | 2010 |
| Hill | Hill County, Texas and Incorporated Areas | 2019 |
| Hood | Hood County, Texas and Incorporated Areas | 2019 |
| Houston | Houston County, Texas and Incorporated Areas | 2011 |
| Hunt | Hunt County, Texas and Incorporated Areas | 2012 |
| Jack | Jack County, Texas and Incorporated Areas | 2021 |
| Johnson | Johnson County, Texas and Incorporated Areas | 2019 |
| Kaufman | Kaufman County, Texas and Incorporated Areas | 2020 |
| Leon | Leon County, Texas and Incorporated Areas | 2013 |
| Liberty | Liberty County, Texas and Incorporated Areas | 2018 |
| Limestone | Limestone County, Texas and Incorporated Areas | 2019 |
| Madison | Madison County, Texas and Incorporated Areas | 1991 |
| Montague | Montague County, Texas and Incorporated Areas | 2011 |
| Navarro | Navarro County, Texas and Incorporated Areas | 2012 |
| Parker | Parker County, Texas and Incorporated Areas | 2020 |
| Polk | Polk County, Texas and Incorporated Areas | 2010 |
| Rockwall | Rockwall County, Texas and Incorporated Areas | 2020 |
| San Jacinto | San Jacinto County, Texas and Incorporated Areas | 2018 |
| Tarrant | Tarrant County, Texas and Incorporated Areas | 2020 |
| Trinity | | n/a |
| Van Zandt | Van Zandt County, Texas and Incorporated Areas | 2010 |
| Walker | Walker County, Texas and Incorporated Areas | 2011 |
| Wise | Wise County, Texas and Incorporated Areas | 2020 |
| Young | Young County, Texas and Incorporated Areas | 2019 |

**Data as of March 2022*

*Table 4.11: Hazard Mitigation Plans*

| Entity Name | Year of HMAP | Entity Name | Year of HMAP |
|---|---|---|---|
| Anderson County | 2018 | Hood County | 2021 |
| Archer County | 2020 | Houston County | 2020 |
| Chambers | 2017 | Hunt County | 2014 |
| City of Dallas | 2018 | Jack County | 2020 |
| City of Decatur | 2016 | Johnson County | 2019 |
| City of Garland | 2017 | Kaufman County | 2015 |
| City of Grand Prairie | 2017 | Leon County | 2019 |
| City of McKinney | 2015 | Liberty County | 2018 |
| City of Mesquite | 2020 | Limestone County | 2019 |
| City of Plano | 2013 | Madison County | 2013 |
| Clay County | 2020 | Montague County | 2020 |
| Collin County | 2016 | Navarro County | 2015 |
| Cooke County | 2018 | Parker County | 2021 |
| Dallas County | 2020 | Polk County | 2019 |
| Denton County | 2016 | Rockwall County | 2017 |
| Ellis County | 2014 | San Jacinto County | 2018 |
| Fannin County | 2015 | Tarrant County | 2020 |
| Freestone County | 2021 | Trinity County | 2019 |
| Grayson County | 2012 | Van Zandt County | 2020 |
| Grimes County | 2013 | Walker County | 2017 |
| Hardin County | 2017 | Wise County | 2014 |
| Henderson County | 2020 | Young County | 2020 |
| Hill County | 2020 | | |

**Data as of March 2022*

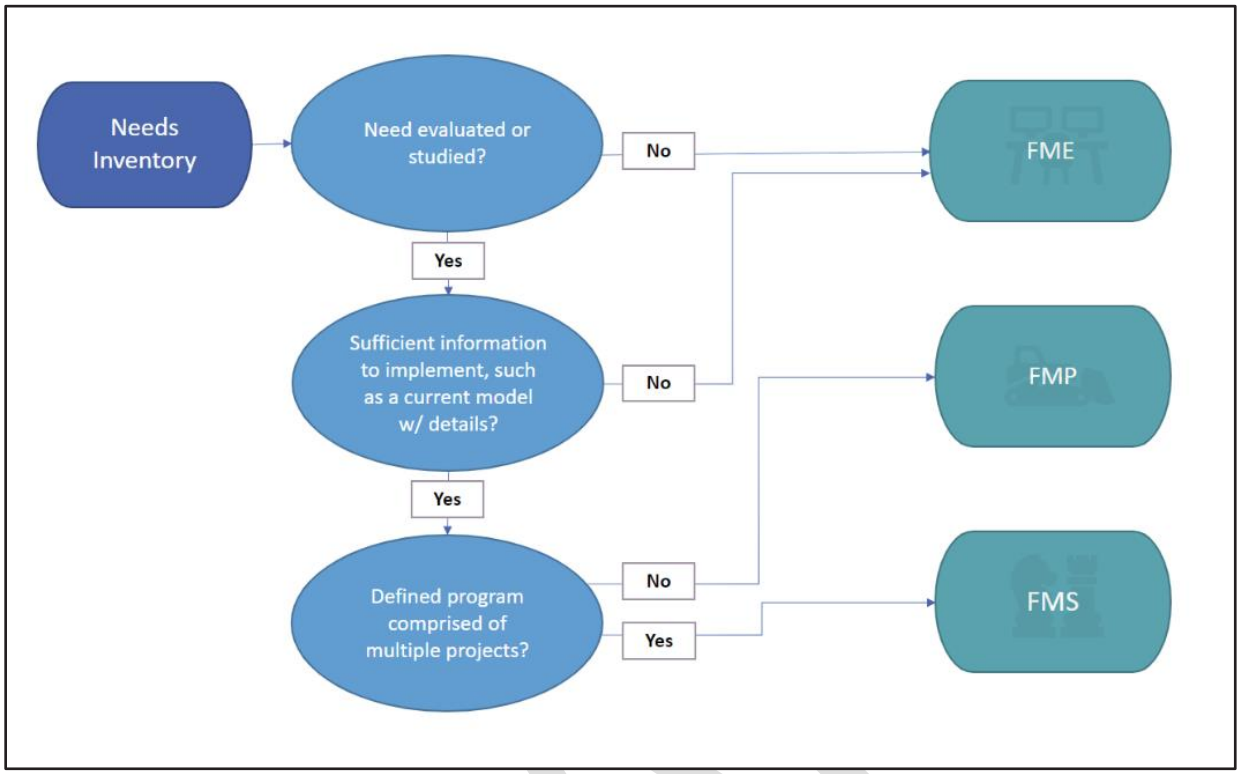
## *4B.2 Classification of Potential FMEs and Potentially Feasible FMSs and FMPs*

The *Technical Guidance* included a summary of different general action types, listed below in **Table 4.12.** Once potential flood risk reduction actions were preliminarily identified using this list, a high-level screening process was used to confirm that potential actions had been sorted into their appropriate categorization. The screening process is shown in **Figure 4.5**.

*Table 4.12: General Flood Risk Reduction Action Types*

| Flood Risk Reduction Action Category | Action Types |
|---|---|
| FME | a. Watershed Planning<br>i. H&H Modeling<br>ii. Flood Mapping Updates<br>iii. Regional Watershed Studies<br>b. Engineering Project Planning<br>i. Feasibility Assessments<br>c. Preliminary Engineering (alternative analysis and up to 30% design)<br>d. Studies on Flood Preparedness |
| FMP | **Structural**<br>a. Low Water Crossings or Bridge Improvements<br>b. Infrastructure (channels, ditches, ponds, stormwater pipes, etc.)<br>c. Regional Detention<br>d. Regional Channel Improvements<br>e. Storm Drain Improvements<br>f. Reservoirs<br>g. Dam Improvements, Maintenance, and Repair<br>h. Flood Walls/Levees<br>i. Coastal Protections<br>j. Nature Based Projects – living levees, increasing storage, increasing channel roughness, increasing losses, de-synchronizing peak flows, dune management, river restoration, riparian restoration, run-off pathway management, wetland restoration, low impact development, green infrastructure<br>k. Comprehensive Regional Project |
| | **Non-Structural**<br>a. Property or Easement Acquisition<br>b. Elevation of Individual Structures<br>c. Flood Readiness and Resilience<br>d. Flood Early Warning Systems, including stream gauges and monitoring stations<br>e. Floodproofing<br>f. Regulatory Requirements for Reduction of Flood Risk |
| FMS | None specified; RFPGs were instructed to include at a minimum any proposed action that the group wanted to consider for inclusion in the plan that did not qualify as either an FME or FMP. |

*Figure 4.5: Potential Flood Risk Reduction Action Screening Process*




Generally, an action was considered an FME if it was meant to study and quantify flood risk in an area and to define potential FMPs and FMSs to address the risk. Potential actions that could be considered FMPs were screened to determine if they have been developed in enough detail and include sufficient data to meet the technical requirements for these action types. Actions that were initially considered for FMPs that did not meet these requirements were adapted and repurposed as FMEs. Potential solutions that did not easily meet the criteria of FMEs or FMPs could be included as FMSs. The specific requirements for each action type are described in subsequent sections.

FMSs were also identified for other strategies the RFPG wishes to pursue. One example of a potential FMS is identifying repetitive loss properties and establishing a community-wide program of voluntary acquisitions to be implemented over several years. Another example would be a program to enhance public education and awareness about flooding throughout the region, which does not include a construction cost.

## *4B.3 Evaluation of Potential FMEs*

Several actions were identified as potential FMEs to address gaps in available flood risk data associated with the first planning cycle. The following data sources were used to identify FMEs across the basin:

- Previous Flood Studies
- Capital Improvement Plans
- Drainage Master Plans
- Flood Insurance Studies (FIS)
- Hazard Mitigation Action Plans (HMAP)
- Flood Infrastructure Fund (FIF) applications not chosen for funding

- Direct input from the RFPG

The evaluation of FMEs relied on the compilation of planning level data to gauge alignment with regional strategies and flood planning guidance, the potential flood risk in the area, and the funding need and availability. This data included:

- Type of study and location
- Availability of existing modeling and mapping data
- Regional flood mitigation and floodplain management goals addressed by the FME, and whether the FME meets an emergency need
- Flood risk information, including flood risk type, number and location of structures, population, roadways, and agricultural areas at risk
- Sponsor entity and other entities with oversight
- Cost information, including study cost and potential funding sources

### 4B.3.a. FME Types

The definition of an FME allows for a variety of study types to help assess flood risk and potentially define future FMPs and FMSs. A general list of study types was previously summarized in **Table 4.12**. The following section describes these project types in more detail and provides a summary of the different potential FMEs identified in Region 3.

**Watershed Planning**

FMEs classified as Watershed Planning typically involve efforts associated with hydrologic and hydraulic (H&H) modeling to help define flood risk or identify flood prone areas at a regional scale. The goal of Watershed Planning is to distribute resources equitably throughout a watershed to implement plans, programs, and projects that maintain watershed function and prevent adverse flood effects. A wide variety of project types fit under the umbrella of Watershed Planning, and the subcategories defined in Region 3 include:

- **Flood Mapping Updates** - Flood mapping data helps communities quantify and manage their flood risk. It also provides communities a pathway to access flood insurance administered through the National Flood Insurance Program (NFIP) Flood Mapping FMEs were identified for all counties within the Trinity River Basin except for Tarrant and Dallas Counties. The FMEs included both the development of regulatory maps where none exist and updating existing maps to account for revised rainfall data, recent development conditions, and advances in floodplain modeling and mapping methodologies.
- **Drainage Master Plans -** Drainage master plans support the development and analysis of hydrologic and hydraulic (H&H) models to evaluate flood risk within a given jurisdiction, evaluate potential alternatives to mitigate flood risk, and develop capital improvement plans.
- **Hydrologic and Hydraulic (H&H) Modeling -** The objective of H&H Modeling FMEs is to evaluate and define flood risk, identify flood prone areas, and evaluate alternatives for mitigating such risks at a local level.
- **Regional Watershed Studies -** Large-scale H&H studies that are likely to benefit multiple jurisdictions.

- **Flood Mapping for Dam Failure** – Conduct studies to develop dam failure inundation maps and models. Per the Texas Commission on Environmental Quality (TCEQ) regulations, dams are required to be evaluated for hydrologic capacity for minimum design flood based on the Probable Maximum Flood (PMF) event. In addition to evaluating the design flood capacity, the hydrologic models are used to establish peak water surface elevations and reservoir inflow hydrographs, which are in turn utilized for performing the breach analysis and generating breach inundation mapping.
- **Flood Mapping for Levee Failure –** Conduct studies to develop levee failure inundation maps and models. Hydrologic studies to determine threat, risk, and potential impacts of flooding from levee failure.

**Engineering Project Planning**

FMEs classified as Engineering Project Planning include studies to evaluate potential construction projects. These evaluations include feasibility assessments, preliminary alternatives analysis, and preliminary engineering design. The scope of the flood planning process defines a 30% design level as the cut-off between the study phase associated with an FME and the design and implementation phase associated with an FMP. The following Engineering Project Planning subcategories were identified in Region 3:

- Channelization
- Culvert Improvements
- Erosion Control
- Low Water Crossing Improvements
- Road/Bridge Improvements
- Storm Drain Improvements
- Stream Stabilization
- Other

**Flood Preparedness Studies**

FMEs classified as Studies on Flood Preparedness includes proactive evaluations of a community's readiness to respond to a flood event. These types of evaluations consider factors such as early warning systems, public awareness about flooding, capabilities of emergency operations personnel, and the development of emergency operations and evacuation plans.

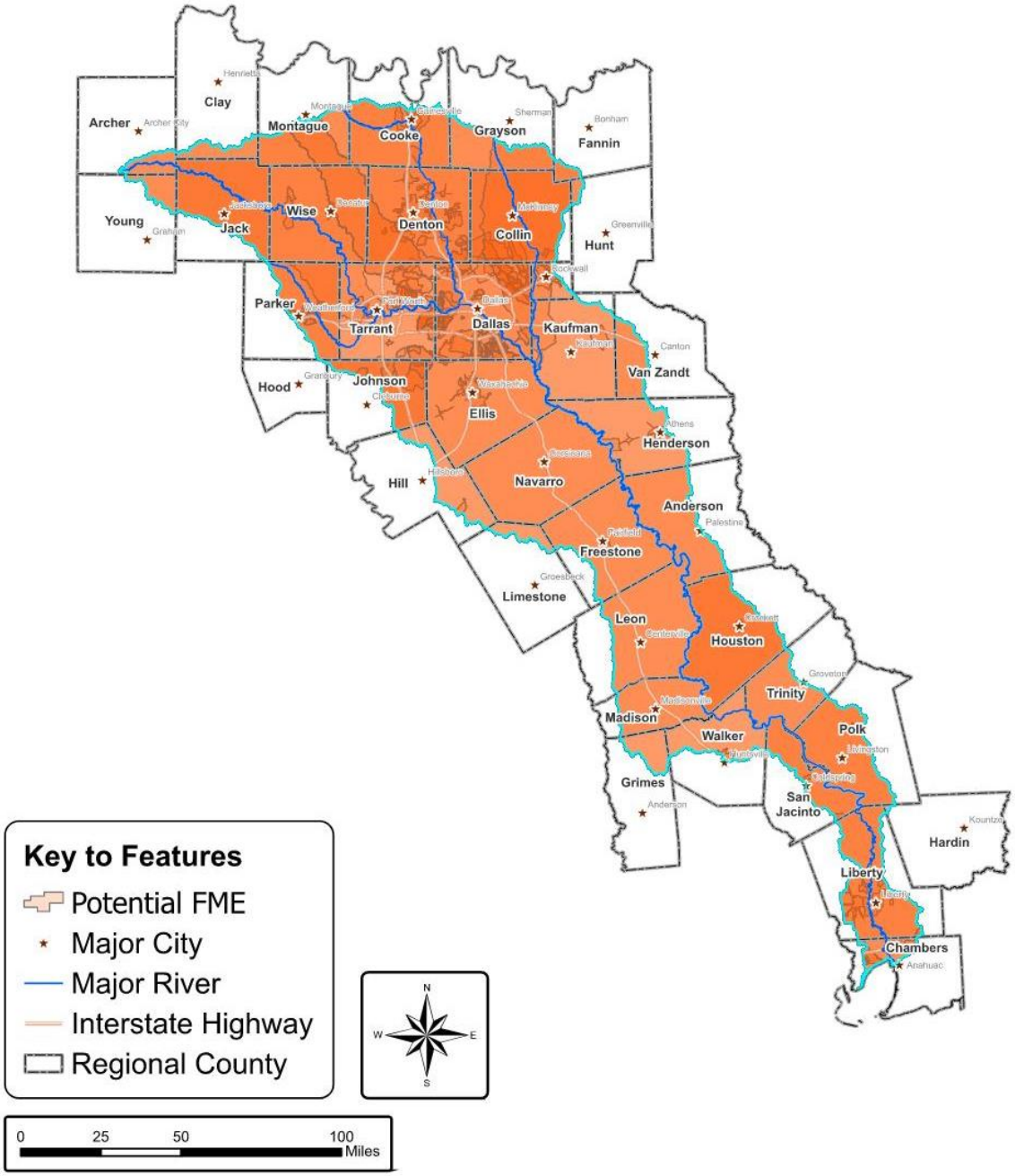
**FME Classification Summary**

An overall summary of the identified FMEs is provided in **Table 4.13.** All potential FMEs that were identified are listed with their supporting technical information in TWDB-Required **Table 12 (Appendix 4.1)**. In total, 356 potential FMEs were identified and evaluated. The geographical distribution of the identified FMEs is shown in **Figure 4.6**. Color gradations in **Figure 4.6** reflect the number of FMEs that overlap for the same area, the darker the color, the greater the number of FMEs.

*Table 4.13: FME Types and General Description*

| FME Type | FME Sub-Types | General Description | Number of FMEs Identified |
|---|---|---|---|
| Watershed Planning | Watershed Planning – Drainage Master Plans | Supports the development and analysis of hydrologic and hydraulic models to evaluate flood risk within a given jurisdiction, evaluate potential alternatives to mitigate flood risk, and develop capital improvement plans. | 51 |
| | Watershed Planning – H&H Modeling, Regional Watershed Studies | Supports the development and analysis of hydrologic and hydraulic models to define flood risk or identify flood prone areas OR Large-scale studies that are likely to benefit multiple jurisdictions. | 15 |
| | Watershed Planning – Flood Mapping Updates | Promotes the development and/or refinement of detailed flood risk maps to address data gaps and inadequate mapping. Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 37 |
| | Watershed Planning – Flood Mapping for Dam and Levee Failure | Conduct studies to develop dam and levee failure inundation maps and models. Hydrologic studies to determine threat, risk, and potential impacts of flooding from dam and levee failure. | 11 |
| Project Planning | Engineering Project Planning | Evaluation of a proposed project to determine whether implementation would be feasible OR Initial engineering assessment including conceptual design, alternative analysis, and up to 30 percent engineering design. | 236 |
| Preparedness | Studies on Flood Preparedness | Encourages preemptive evaluations and strategies to better prepare an area in the event of flood. | 5 |
| Other | Other – Dam Studies | Other projects not classified above. | 1 |

*Figure 4.6: Geographical Distribution of Potential FMEs*



### 4B.3.b. Planning Level Cost Estimates

A planning level cost estimate was developed for each FME in accordance with the *Technical Guidelines*. The process to produce these cost estimates for each FME project type is outlined in the following sections. Cost estimates presented in this section are for planning purposes only and are not supported by detailed scopes of work or workhour estimates. The RFPG anticipates that the local sponsor will develop detailed scopes of work and associated cost estimates prior to submitting any future funding application through TWDB or other sources.

**Watershed Planning – Flood Mapping Updates**

A spreadsheet was generated to produce planning level cost estimates for Flood Insurance Studies (FIS) utilizing relevant line items from the FEMA guidance document *Estimating the Value of Partner Contributions to Flood Mapping Projects* ("Blue Book") version 4.1. Costs pertaining to management, discovery data capture, alluvial data capture, hydrologic data capture, hydraulic data capture, coastal data capture, floodplain mapping data capture, and final deliverables were included as part of the overall cost. The number of Flood Insurance Rate Map (FIRM) panels that were contained within each project boundary was also accounted for in the cost estimates.

The FME study area was defined as the portion of the county boundary that is within the Trinity River Region. A range of unit costs was developed to generate estimates based on the square milage of the study areas and the total length of stream miles for which hydraulic modeling would be performed. The RFPG estimated that the stream miles to be included would be 25% of the total stream miles classified as FEMA Zone A, Zone X, or unmapped within a given study area. This estimate was based on the adopted short-term goal of reducing areas identified as having gaps in flood mapping by 25% (see Section 3-X).

Experience with previous mapping projects was used to estimate the level of detail associated with the hydrologic and hydraulic analyses that are required for these studies. The level of detail needed to perform a regulatory study reflects differences in the physical characteristics of the basins and their levels of urban development. In terms of hydrologic analysis, it was estimated that 80% of the total project area could be analyzed using low-detail methods, while 20% would require more in-depth rainfall-runoff analyses. For the hydraulic analysis, it was estimated that 70% of the included streams could be properly modeled with a low-detail hydraulic model, 20% with a medium-detail model, and only 10% would require highly detailed models. Unit costs were applied to reflect these different levels of detail.

Each cost estimate also includes standard budget items based on the total project cost. These include a markup of 2% to account for quality assurance and quality control and 15% for project management, survey data capture, and technical reporting. Finally, a 30% contingency was applied to account for uncertainties associated with planning level estimates.

**Watershed Planning – Drainage Master Plans**

Separate planning level cost estimates were developed for drainage master plans depending on whether the Sponsor is a county or city. Initially, the cost of each countywide drainage master plan was generated using a cost per square mile methodology, based on experience on previous countywide drainage master plan studies. This quantity included basic services such as: project management, coordination and collaboration work sessions, data collection, screening assessment, targeted H&H

modeling and alternatives analysis, a technical report, and public outreach. A 30% contingency was applied to account for uncertainties associated with planning level estimates. After a comparative analysis of results, it was noted that a uniform cost estimate of $500,000 would be appropriate to complete each countywide plan. It is anticipated that this placeholder budget will provide sufficient funds for each county to broadly evaluate their jurisdiction and develop potential FMEs and FMPs that could be included in future Regional Flood Plans.

The same scope and basic services were applied for citywide drainage master plans. However, the cost varied based on each city or town's population size, which was taken from 2020 U.S. Census data. Three categories were identified for the population sizes and a corresponding cost estimate was assigned based on professional engineering experience (**Table 4.14**).

*Table 4.14: Citywide Drainage Master Plan Cost Estimate Ranges*

| Relative City Size | Population (2020 Census) | Cost Estimate |
|---|---|---|
| Small | < 25,000 | $250,000 |
| Medium | 25,000 - 100,000 | $500,000 |
| Large | > 100,000 | $1,000,000 |

**Watershed Planning – H&H Modeling and Regional Watershed Studies**

Planning level cost estimates were developed for these types of FMEs assuming a typical scope of work that includes project management, data collection, topographic survey, hydrologic analysis, hydraulic analysis, alternatives evaluation, and final deliverables. A range of unit costs were developed to generate estimates based on the square mileage of the study areas and the total length of stream miles for which hydraulic modeling would be performed. Experience from previous studies was used to scale the study effort and estimate the level of detail associated with the H&H analyses that are required for these studies. It was estimated that 20% of the total project area could be analyzed with low level of detail, 70% with medium level of detail, and 10% would require highly detailed H&H models. Unit costs were applied to reflect these different levels of detail, which reflect differences in the physical characteristics of the basins and their levels of urban development.

Each cost estimate also includes standard budget items based on the total project cost. These include a markup of 2% to account for quality assurance and quality control and 15% for project management, survey data capture, and technical reporting. Finally, a 30% contingency was applied to account for uncertainties associated with planning level estimates.

**Watershed Planning – Flood Mapping for Dam and Levee Failure**

Cost estimates for FMEs under this category reflect the following basic services: project management, discovery data capture, screening assessment and detailed dam breach analysis. Each cost estimate also includes standard budget items based on the total project cost and a 30% contingency was applied to account for uncertainties associated with planning level estimates.

The discovery data capture effort involves dam data collection and a built-in cost to account for quality assurance and quality control. The screening assessment identifies all public and private dams in each

county by researching and gathering any historical information about these dams. The detailed dam breach analysis is the bulk of this overall evaluation cost since it requires a complex H&H analysis. It was assumed that a maximum of 10 dams would be analyzed at this level for cost estimating purposes. In instances where there are less than 10 dams in a county, then the actual value would adopt and the cost estimate was adjusted accordingly.

**Engineering Project Planning**

Engineering project planning considers two important components: (1) the evaluation of a proposed project to determine whether implementation would be feasible, and (2) an initial engineering assessment including conceptual design, alternative analysis, and up to 30 percent engineering design. Each evaluation area is project-specific and varies greatly due to the wide range of improvements in channels, culvert improvements, low water crossings, roads and bridges, storm drain systems, and stream stabilization.

Costs for each evaluation were taken from Capital Improvement Projects (CIP) when available. It was assumed that the total cost represented in the report was the overall construction cost and that the evaluation effort would equate to 5% of the total construction cost or a minimum of $250,000. This methodology was applicable to the City of Grand Prairie and the City of Hurst – both of which, together, comprise 81 out of the 236 Engineering Project Planning FMEs.

The City of Garland has 22 FMEs that fall under this category, all of which are updates to previous drainage studies. The year(s) these studies were initially performed range from April 2003 to September 2010. Thus, the project cost was taken for each of these, when available, and scaled accordingly to September 2020 USD.

The Hazard Mitigation Action Plans (HMAPs) were used, when available, for determining planning level cost estimates. It was assumed that the costs provided for the HMAPs are in 2020 USD. In instances where neither HMAPs nor CIPs were available, additional research and outreach was conducted to gather supplemental information from potential FME sponsors and previously conducted studies to develop a general scope of work and associated cost estimate.

**Studies on Flood Preparedness**

Studies on flood preparedness encourages preemptive evaluations and strategies to better prepare an area in the event of a flood. The identified FMEs in this category include studies to perform vulnerability assessments, develop emergency action plans, and perform dam compliance assessments. Placeholder costs were assigned to these FMEs based on professional engineering experience with similar projects.

**Other**

The only FME classified as “Other” is a USDA dam study and rehabilitation for Denton County. The scope and scale of this dam study can vary widely, and there is uncertainty in terms of the number of dams that could potentially be rehabilitated and further studied. Using the dam failure analysis as a basis of comparison, it is likely that this effort would cost $2,000,000.

### 4B.3.c. Process to Determine Flood Risk Indicators

Flood risk indicators were quantified to define the existing flood hazard, flood risk, and flood vulnerability within each FME project area. An automated tool was developed in GIS to combine and summarize this information by clipping the flood risk information generated for the basin as part of Task 2A to the individual project boundaries associated with each FME. The resulting flood risk indicator information was used to populate the associated fields in the FME feature class. These values are summarized in **Table 12**.

### 4B.3.d. Comparison and Assessment of FMEs

As previously stated, most of the counties within the Trinity Basin have been submitted as a flood mapping update FME due to a lack of current fully detailed, model backed hydrologic and hydraulic floodplain analyses. Clay County contains no regulatory floodplain information. Apart from Dallas and Tarrant Counties, the exposure analysis resulted in the highest exposed structure counts within Denton and Liberty County, demonstrating the need for accurate floodplain information for future mitigation and resiliency planning. Navarro and Hill County have the Trinity Basin's highest flood exposure SVI, meaning a disproportionate amount of potential loss due to inaccurate floodplain information. Current mapping within the lower portion of the Trinity Basin does not reflect the increase in rainfall resulting from the NOAA Atlas 14 release, prompting a significant need for FME flood mapping updates in counties south of Leon.

Nearly 50, drainage master plan FME projects were collected for inclusion in **Table 12**. Drainage master plan areas were based on either City or County boundaries. Of the counties listed, the Dallas County drainage master plan and vulnerability assessment project area had the highest floodplain exposure and most population at risk. The City of Denton and Haltom City had the highest floodplain exposure out of the cities listed. Drainage master planning FMEs for the City of Madisonville, Everman, Crockett and Athens have the highest city-wide SVI scores of over 0.9.

A majority of the FMEs collected were categorized as engineering project planning. These are either riverine or urban flood prone specific areas that have been identified and collected by a community. These FMEs were identified either by observation and eyewitness flood reports or through a detailed study with conceptual improvement alternatives. The analysis obtained from these proposed projects did not meet the full requirements to be included as an FMP and were relegated to an FME for further refinement. Over 60% of the FME engineering project planning projects collected were located in Dallas and Tarrant County. Four (4) FME projects listed were contained within Hill County which has the second highest flood exposure SVI within the Trinity Region. The total engineering project planning project areas contain a combined 49,000 structures at risk with over 65% of the structures being classified as residential.

### 4B.3.e Determination of Emergency Need

The term emergency need can be interpreted in multiple ways, and each region has been tasked with defining the term for each individual flood planning region. Region 3 has decided upon the following criteria to determine areas of emergency need:

Removing severe repetitive loss properties through FMSs are deemed emergency needs. Severe repetitive loss (SRL) properties are those that flood repeatedly, causing significant difficulties for

property owners. The National Flood Insurance Reform Act of 2004 defined severe repetitive loss as "a single family property (consisting of 1 to 4 residences) that is covered under flood insurance by the NFIP and has incurred flood-related damage for which 4 or more separate claims payments have been paid under flood insurance coverage, with the amount of each claim payment exceeding $5,000 and with cumulative amount of such claims payments exceeding $20,000; or for which at least 2 separate claims payments have been made with the cumulative amount of such claims exceeding the reported value of the property". Property acquisition, demolition, or elevation remove such structures from the floodplain through coordinating FMSs.

Other emergency needs FMEs, FMPs, and FMSs would remove critical facilities from the 1% annual chance flood area through various types of FMEs, FMPS, and FMSs including, but not limited to acquisition, demolition, or elevation, floodproofing or retrofitting, and through infrastructure projects that would improve roads or bridges that cause critical facilities to be inaccessible. Designating these critical facility structures as emergency need enables mitigation measures in the form of FMXs to be enacted to reduce future risk.

Loss of life due to a flood event is to be used in determining emergency need when corresponding data is available in determining location of fatality. Ultimately, emergency needs are designated as areas that would sustain negative impacts within the foreseeable future were no measures taken.

## *4B.4 Evaluation of Potentially Feasible FMPs and FMSs*

Potentially feasible FMPs were identified based on responses to survey, reviews of previous studies, FIF applications not selected for funding, and direct coordination with stakeholders. FMSs and FMPs are required to be developed in a sufficient level of detail to be included in the Regional Flood Plan and recommended for state funding. In most cases, this includes having recent H&H modeling data to assess the impacts of the project and an associated project cost to develop the project's benefit-cost ratio (BCR). The development and use of the technical information to evaluate potentially feasible actions are described in the subsections that follow.

**Potentially Feasible FMPs**

The RFPG identified 33 potentially feasible FMPs for Region 3. The geographical distribution of each identified FMP is shown in **Figure 4.7** with technical information for each FMP summarized in **Table 13 (Appendix 4.1).** Color gradations in **Figure 4.7** reflect the number of FMPs that overlap for the same area, the darker the color the greater the number of FMPs.

Each project is unique, and the specific FMPs recommended by the RFPG will be described in detail in Chapter 5. A general description of the potentially feasible FMPs is presented in **Table 4.15**.

*Table 4.15: Summary of FMP Types*

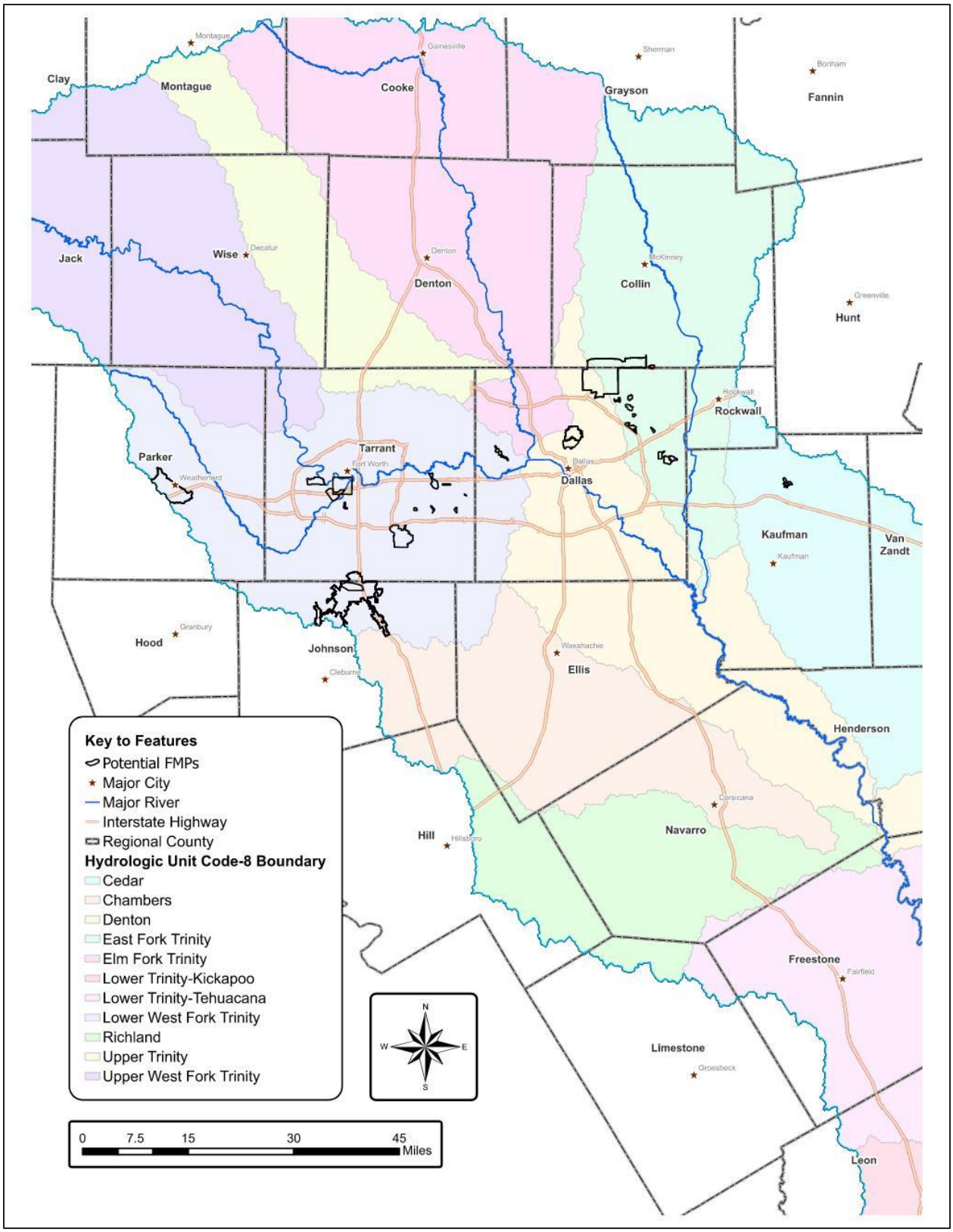
| FMP Type | General Description | Number of FMPs Identified |
|---|---|---|
| Stormwater Infrastructure Improvements | Improvements to stormwater infrastructure including channels, ditches, ponds, stormwater pipes, etc. | 31 |
| Regional Detention Facilities | Runoff control and management via detention facilities. | 2 |

The identified potentially feasible FMPs for this first planning cycle are primarily located within the Upper Basin area. These were the only actions for which a Sponsor provided sufficient information to be considered as a potentially feasible FMP or that an existing unfunded FIF application was potentially available. The potential Sponsors and their associated number of FMPs are listed below:

- City of Arlington (1)
- City of Fort Worth (3)
- City of Irving (1)
- City of Richardson (25)
- City of Sachse (1)
- Town of Sunnyvale (2)

Additional potentially feasible FMPs may be identified through continued outreach with regional stakeholders under Task 11 and through the execution of identified FMEs, either as FMEs are approved by the RFPG to be performed under Task 12, or as other funding sources are acquired by individual stakeholders.

*Figure 4.7: Geographical Distribution of Potential FMPs*



**Potentially Feasible FMSs**

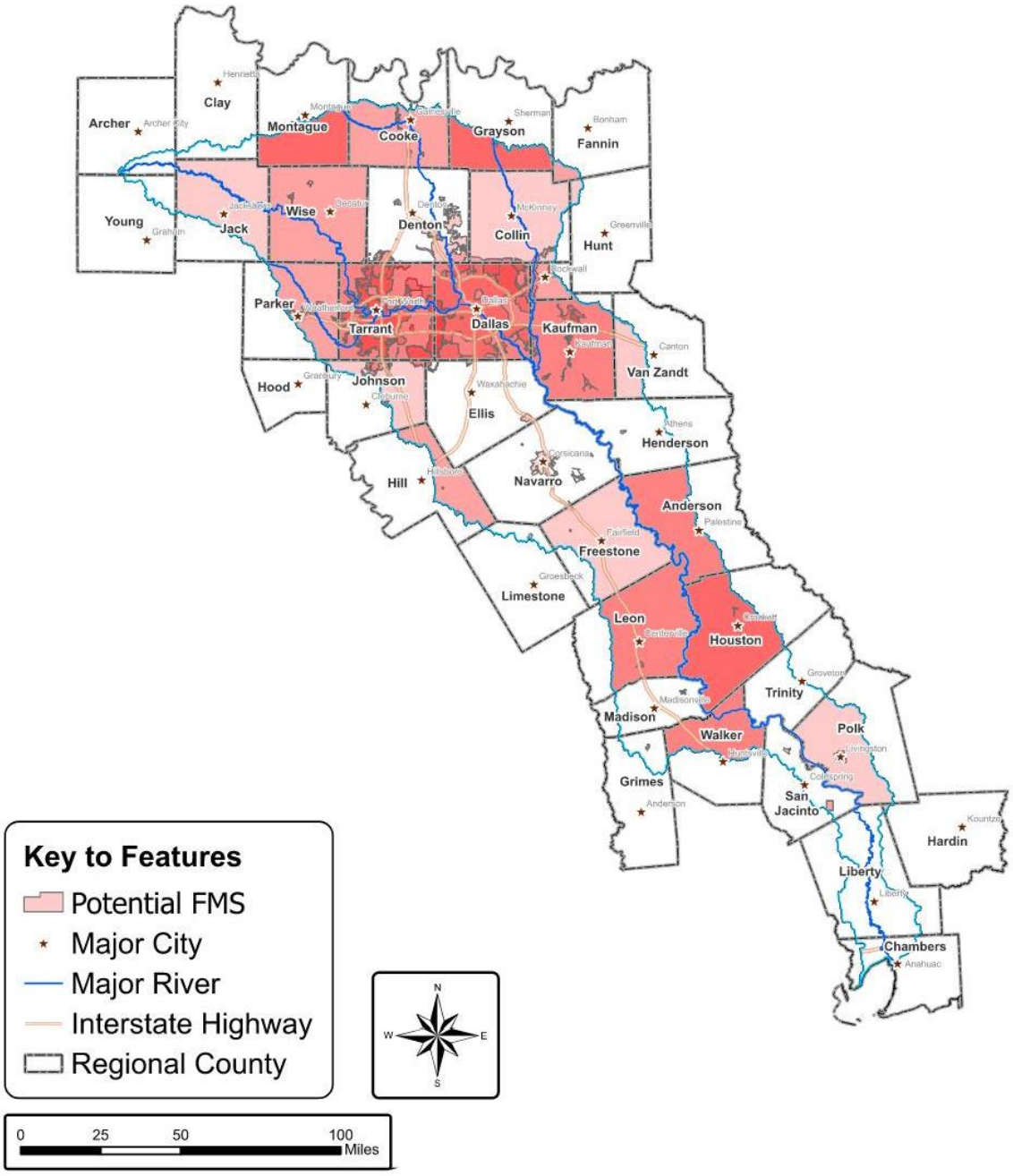
The RFPG identified 143 potentially feasible FMSs for Region 3. The geographical distribution of each identified FMS is shown in **Figure 4.8** with technical information for each FMS summarized in TWDB-required **Table 14 (Appendix 4.1).** Color gradations in **Figure 4.8** reflect the number of FMSs that overlap for the same area, the darker the color, the greater the number of FMSs.

A variety of FMS types were identified. Some establish and implement public awareness and educational programs to better inform communities of the risks associated with flood waters. Other FMSs improve preventative maintenance programs to maximize operational efficiency of existing stormwater management infrastructure, develop stormwater management manuals to encourage best management practices, or establish community-wide flood warning systems. A significant number of property acquisition programs were also identified. These programs include a variety of purposes such as acquiring floodplain and environmentally sensitive areas to convert them into open space land and acquisition of repetitive loss structures. A summary listing of FMS types is provided in **Table 4.16**.

*Table 4.16: Summary of FMS Types*

| FMS Type | General Description | Number of FMSs Identified |
|---|---|---|
| Education and Outreach | Develop a coordinated education, outreach, and training program to inform and educate the public about the dangers of flooding and how to prevent flood damages to property. | 22 |
| Flood Measurement and Warning | Install gauges, sensors, and precipitation measuring sites to monitor streams and waterways for potential flooding. | 20 |
| Infrastructure Projects | City-wide improvement projects. | 5 |
| Property Acquisition and Structural Elevation | Acquire, relocate, and/or elevate flood-prone structures. | 28 |
| | Acquire floodplain and protect environmentally sensitive areas by converting floodplain encroachments into open space land. | |
| Regulatory and Guidance | Develop and implement Flood Damage Prevention Ordinances. | 55 |
| | Catalog, evaluate, and update floodplain regulations to comply with the latest FEMA minimum regulations or to adopt higher standards. | |
| | Incorporate regulatory standards to protect open space in flood prone areas. | |
| | Promote the inclusion of low impact development requirements in local and regional development ordinances. | |
| Other | Preventive Maintenance Programs, Erosion Control Programs, Funding Mechanisms, Nature-Based Solutions - Implement the use of green infrastructure. | 13 |

*Figure 4.8: Geographical Distribution of Potential FMSs*



## 4B.4.a. Comparison and Assessment of FMSs and FMPs

**Potentially Feasible FMP Comparison and Assessment**

Over 30 FMPs were collected and met the recommendation requirements to be considered for inclusion. Approximately 90% of the FMPs recorded are categorized as infrastructure or storm drain. These FMPs represent proposed design and construction projects that will improve a sponsor's storm drainage and channel infrastructure to reduce flooding in high flood risk areas. The City of Irving, West Irving Creek project, has the potential to protect the highest population count from flooding compared to the other FMPs listed. This indicates that buildings located within the existing floodplain within the project footprint are high capacity. Drainage improvement projects located in Arlington and Garland are proposed to mitigate flood threat to the highest number of residential properties. FMPs located in Garland, Arlington, Irving, and Kennedale had the highest SVI, ranging from 0.7-0.9.

**Potentially Feasible FMS Comparison and Assessment**

Approximately 25% of the FMSs listed are categorized as Floodplain Management Policy/Regulatory Guidance. Developing minimum NFIP or higher floodplain regulatory standards for new development near a regulatory or community effective floodplain preserves the natural capacity of the flooding source and limits upstream and downstream negative impacts. Minimum FEMA NFIP floodplain regulations can be found in Chapter 44 of the *Code of Federal Regulations* (44 CRF). The Texas Floodplain Management Association (TFMA) has developed a *Guide for Higher Standards for Floodplain Management (2018),* which can serve as an example for higher floodplain development standards for the referenced FMSs.

Twenty-two (22) sponsors requested flood awareness and safety education support. These FMSs range from implementing the National Weather Service's "Turn Around, Don't Drown" campaign to general education in regards the NFIP. Of the sponsors requesting education and outreach support, Houston County demonstrated the highest flood risk to habitable structures, road crossings, and agricultural land.

Nearly twenty (20) sponsors expressed interest in flood measuring, monitoring, and warning systems. These systems include local warning notifications, monitoring/measuring gages, highwater detection systems, sirens, warning lights, signage, and automated gates. Seven (7) of these types of FMSs are in Dallas and Tarrant County, which have the highest flood exposure in the Trinity Basin. The proposed flood warning system in Leon County would service the most socially vulnerable county among the list of flood warning FMSs.

Another FMS that sponsors requested, related to property and land acquisition programs. These "buyout" program FMSs were provided on either a county or city-wide basis. Four of these programs which span multiple jurisdictions are planned to have multiple sponsorship. Of the county-wide buyout FMSs, the Leon County repetitive loss property acquisition had the highest SVI. Of the city-wide buyout FMSs, Chico and Terrell ranked as having the highest SVI, with values ranging from 0.75 – 0.95.

## 4B.4.b. Effects on Neighboring Areas of FMSs or FMPs

Each potentially feasible FMP and FMS must demonstrate that there would be no negative flood impacts on a neighboring area due to its implementation. No negative impact means that a project will not increase flood risk to surrounding properties. The analysis must be based on best available data and be

sufficiently robust to demonstrate that the post-project flood hazard is no greater than the existing flood hazard.

Several communities in the Trinity Region have established no negative flood impact policies for proposed development. However, communities have different thresholds for defining what level of impact is considered adverse and require the analysis to be performed for different flood event scenarios. The *Technical Guidelines* and *Rules* governing state flood planning require the impacts analysis to be performed for the 1% annual chance event. Additionally, the *Technical Guidelines* require the following criteria to be met, as applicable, to establish no negative flood impact:

1. Stormwater does not increase inundation in areas beyond the public right-of-way, project property, or easement.
2. Stormwater does not increase inundation of storm drainage networks, channels, and roadways beyond design capacity.
3. Maximum increase of 1D Water Surface Elevation must round to 0.0 feet (< 0.05ft) measured along the hydraulic cross-section.
4. Maximum increase of 2D Water Surface Elevations must round to 0.3 feet (< 0.35ft) measured at each computational cell.
5. Maximum increase in hydrologic peak discharge must be < 0.5 percent measured at computational nodes (sub-basins, junctions, reaches, reservoirs, etc.). This discharge restriction does not apply to a 2D overland analysis.

If negative impacts are identified, mitigation measures may be utilized to alleviate such impacts. Projects with design level mitigation measures already identified may be included in the Regional Flood Plan and could be finalized at a later stage to conform to the "No Negative Impact" requirements prior to funding or execution of a project.

Furthermore, the RFPG has flexibility to consider and accept additional "negative impact" for requirements 1 through 5 based on engineer's professional judgment and analysis given any affected stakeholders are informed and accept the impacts. This should be well-documented and consistent across the entire region. However, flexibility regarding negative impact remains subject to TWDB review.

A comparative assessment of pre- and post-project conditions for the 1% annual chance event (100-yr flood) was performed for each potentially feasible FMP based on their associated hydrologic and hydraulic models. The floodplain boundary extents, resulting water surface elevations, and peak discharge values were compared at pertinent locations to determine if the FMP conforms to the no negative impacts requirements. This comparative assessment was performed for the entire zone of influence of the FMP.

The comparative assessment to determine "no negative flood impact" on upstream or downstream areas or neighboring regions was performed based on currently available regional planning level data. The local sponsor will be ultimately responsible for proving the final project design has no negative flood impact prior to initiating construction.

### 4B.4.c. Estimated Benefits of FMP or FMS

To be recommended, each FMP or FMS must align with a regional floodplain management goal established under Task 3 and demonstrate a flood risk reduction benefit. To quantify the flood risk

reduction benefit of each FMP or FMS, the anticipated impact after project implementation was evaluated according to the following criteria:

- Reduction in habitable, equivalent living units flood risk
- Reduction in residential population flood risk
- Reduction in critical facilities flood risk
- Reduction in road closure occurrences
- Reduction in acres of active farmland and ranchland flood risk
- Estimated reduction in fatalities, when available
- Estimated reduction in injuries, when available
- Reduction in expected annual damages from residential, commercial, and public property
- Other benefits as deemed relevant by the RFPG including environmental benefits and other public benefits

These estimated benefits were produced from geospatial data by analyzing the existing 1% and 0.2% annual chance floodplain boundaries with the proposed post-project floodplain boundaries. These proposed flood risk conditions were compared to the existing conditions flood risk indicators for a given area to quantify the reduction of flood risk achieved by implementation of an FMP or FMS. The results of the analysis are shown for each FMP or FMS in **Table 13** and **Table 14**, respectively.

### 4B.4.d. Potential Impacts and Benefits from the FMS or FMP to other resources

Potential impacts and benefits from FMS or FMP are explored for the Trinity River basin from the standpoint of environment, agriculture, recreation, navigation, water quality, erosion and sedimentation. Factors unique to the Trinity River basin were reviewed and an assessment of how these factors might interact with a potential FMS or FMP are discussed below.

#### *Environmental*

Senate Bill 3 (SB3) was designed to establish environmental flow standards for all major river basins and bay systems in Texas through a scientific, stakeholder-driven and consensus-based process. The key questions addressed by the SB3 process as defined by TWDB are -

1. What is the quantity of water required by the state's rivers/estuaries to sustain a sound ecological environment?
2. How can this water be protected?
3. What is the appropriate balance between water needed to sustain a sound ecological environment and water needed for human or other uses?

FMS or FMP in the Trinity River basin should consider potential impacts as it relates to the ecological flows established under the directive of SB3. Several studies have been completed for the Trinity River basin with the purpose of studying environmental flow needs as part of the objectives of SB3 (Quigg and Steichen, 2015; Mangham et al., 2015; TRA et al., 2018; Quigg and Steichen, 2018).

FMS or FMP should be able to maintain the established SB3 environmental flows in the Trinity River at the Grand Prairie, Dallas, Oakwood and Romayor gauge locations. TRA (2018) identified anthropogenic factors affecting this study site and the stream segment. The study identifies floodplain management as more impactful on riparian areas than high pulse flow management and return flows at the base flow

level as the main factor to satisfy subsistence and base flows. FMS or FMP at or upstream of this location should focus on floodplain management and maintaining return flows. Similarly, at the Dallas location, FMS or FMP should be able to maintain return flows to satisfy SB3 subsistence and base flows. Study conducted under SB2 by Texas Instream Flow Program (TIFP) suggests that base flows between 75 and 450 cfs at Oakwood could exhibit temperatures above the TIFP goals in select shallow areas. FMS or FMP that increase the base flows could ensure that the TIFP temperature goals are met at this location. Dissolved oxygen (DO) could also improve if FMS or FMP increase base flows. FMS or FMP should maintain return flows to satisfy SB3 subsistence and base flows. FMS or FMP in all likelihood will increase base flows at Romayor above 575 cfs, required for continuous sand transport.

The high pulse flow SB3 values at the above locations primarily provide sediment, water table and in-channel habitat functions. FMS or FMP is expected to reduce the extreme peak flows yet maintain the periodic high pulse flows required at these locations to sustain ecological and habitat functions.

### *Agricultural*

According to the Texas A&M AgriLife Extension Service economists, Hurricane Harvey caused more than $200 million in crop and livestock losses in Texas. Flood waters have the potential to destroy standing crops, create water-logged conditions that delay planting or harvesting, wash away productive topsoil, and damage farm equipment and infrastructure. FMS or FMP potentially reduce extremely high flows in rivers and streams thereby preventing flood waters from inundating areas outside of the floodway including agricultural areas. Structural FMS or FMP like small flood control ponds also have the potential to assist in agricultural production by serving dual purpose of flood mitigation and water supply. Non-structural FMS or FMP have similar impacts on flood peak flow reduction and flooding including agricultural conservation practices such as such as conservation tillage, residue management, cover crops and furrow dikes. These practices not only reduce downstream flooding by reducing surface runoff and increasing infiltration on agricultural lands but also sediment and nutrient losses thereby improving downstream water quality.

### *Recreational Resources*

There are 34 major lakes and reservoirs in the Trinity Basin. Recreational opportunities associated with these lakes and reservoirs have the potential to be impacted when they are being operated to mitigate flood risk. Flood control reservoirs hold water in their flood pools during peak runoff periods until the impounded water can be safely released downstream. During these periods, recreation use potential of adjacent parks and playgrounds may be vastly reduced. Flood risk management through FMS or FMP may consist of creating additional such flood control reservoirs with the intent of impounding water to mitigate flood risk. The impoundment of water at flood pools (which are considerably higher than the normal pool) can potentially impact recreational functions of parks, campgrounds, boat ramps, etc.

Recreational use in flood control reservoirs may also be impacted by the water quality in the waterbodies. Texas Commission on Environmental Quality (TCEQ) assesses waterbodies in Texas every two years for five designated use categories including recreation use. The biennial recreation use assessment by TCEQ consists of evaluating waterbodies for E. coli (fresh water) or Enterococcus (tidal waters) from a standpoint of human health protection from recreational contact in the waterbodies. The 2020 Texas Integrated Report classifies a significant number of segments in the Trinity River Basin as “Not Supporting” for recreation use (TRA, 2020). FMS or FMP that focus on reducing runoff and

therefore reducing export of bacteria to waterbodies have the potential to improve the recreation use condition of segments currently assessed as "Not Supporting".

### *Navigation*

The Trinity River is not used for commercial navigation. In 1963, the USACE approved making the Trinity River navigable by barges and in 1965 Congress and then President Lyndon B. Johnson approved the project as a package of flood control and navigation projects including a barge canal connecting the Dallas-Fort Worth metroplex with the Gulf of Mexico. The barge canal was estimated to cost approximately $1 billion. In 1973 voters rejected to finance the barge canal and USACE subsequently abandoned the project. Navigation on the Trinity River basin is generally limited to recreational canoeing and kayaking in the rivers and creeks, and boating in the lakes and reservoirs. These activities are currently impacted when flows in the Trinity River and water levels in the reservoirs are being actively managed for flood control. These impacts include limited or restricted access to navigation when the rivers and reservoirs are at or above flood stage. FME or FMP are expected to have similar impacts on recreational navigation in the Trinity River basin.

### *Water Quality*

Many of the reservoirs in the Trinity River basin are saturated with nutrients, and stormwater runoff is identified as the primary source of nutrient loading. Despite the high levels of nutrients, reservoirs in the Trinity River basin are classified as mesotrophic or eutrophic. TRA hypothesizes that light penetration in the turbid waters rather than nutrient availability is the limiting factor for algal growth in these reservoirs (TRA, 2020). The TRA 2020 basin summary report identifies zebra mussel infestation in the reservoirs as a threat to potentially increase water clarity thereby allowing more light penetration and increased algal growth in the presence of abundant nutrients. TRA therefore recommends proactive watershed protection programs and extensive use of best management practices to reduce nutrient loading and risk of harmful algal blooms. Structural FME or FMP such as small flood control ponds are designed to capture stormwater runoff and pollutants thereby improving the water quality reaching the water supply reservoirs. However, the algal blooms might occur in these small reservoirs due to excessive availability of nutrients. Non-structural FME or FMP that reduce stormwater runoff production have the potential to reduce nutrient loading to water supply reservoirs and other structural FME or FMP.

Based on sampling for bacteria throughout the Trinity River basin, TCEQ found that 69 of the 162 assessment units have concerns or do not support contact recreation use. Many these findings are intermittent urban streams in the Dallas-Fort Worth metroplex. Intermittent streams can have high bacteria levels because they are not washed out frequently or assimilated. A TMDL Implementation Plan covering much of the metroplex outlines activities to potentially reduce bacteria loading to these streams. Non-structural FME or FMP that focus on runoff reduction from sources are expected to reduce bacteria loads. Structural FME or FMP such as small flood control ponds depending on their location and operation may maintain small levels of flows in downstream intermittent streams, enough to flush out the streams and improve assimilation.

### *Erosion*

The Trinity River Environmental Restoration Initiative 2010 funded by the TWDB studied the rates and sources of sediment (and nutrient) loading to 12 major water supply reservoirs in 10 watersheds of the

Upper Trinity River basin. The study reported a wide range of annual overland erosion rates, varying from 0.07 tons/ac/yr in the Bridgeport basin to 0.7 tons/ac/yr in the Lewisville basin. The study found that in most watersheds the total sediment loading to the reservoirs was larger than the overland erosion amounts, suggesting bank and bed erosion as important sources.

The study also concluded that small flood control reservoirs (PL-556 structures) generally had a positive impact on reduction of total sediment load delivered to the flood control reservoirs. The efficiency of these small flood control structures in trapping sediment varied greatly from approximately 4% in the Ray Hubbard watershed to 48% in the Lewisville watershed. The effectiveness of these flood control structures in reducing delivery of sediment loads to water supply reservoirs are directly influenced by the percentage of watershed area draining to the ponds, their locations and the watershed's erosion characteristics. Structural FMS or FMP is expected to have similar impacts as the small flood control reservoirs identified in the TWDB study. Sediment attenuation will be largely influenced by the location and drainage area of the structural FMS or FMP, and watershed characteristics.

Non-structural FMS or FMP that limit sediment production and transport may be viable options for reducing erosion and transport of sediment in the Trinity Basin. The TWDB study found that conservation practices such as no rangeland grazing resulted in reduced source sediment loads and delivered loads. Non-structural and structural FMS or FMP have the potential to reduce sediment production in the watersheds and delivery to the waterbodies in the Trinity River basin.

### *Sedimentation*

Sedimentation is a natural process by which runoff water, often rivers, transport small particles from upstream to downstream. As the water slows down, the particles settle to the bottom of the river or lake. A volumetric and sedimentation survey of Lake Livingston by the TWDB (Leber et al., 2020) measured 129,149 acre-feet of sedimentation. The survey concluded that the Lake has lost capacity at an average of 2,583 acre-feet per year due to sedimentation since impoundment in 19__. Sedimentation has been reported for most major reservoirs in the Trinity River basin based on periodic volumetric and sedimentation surveys conducted by the TWDB.

Structural FMS or FMP such as a small flood control reservoir receives and impounds water (and sediment) from its respective drainage area. Long residence time in a flood control pond results in settling of large proportions of the incoming sediment. Periodic discharges from small flood control projects are generally expected to carry smaller sediment loads than the influent runoff. Structural FMS or FMP is therefore expected to reduce sedimentation in downstream water supply reservoirs by trapping sediment in their pools. While sedimentation in the large downstream reservoirs potentially reduce, sedimentation is expected to occur in the individual flood control projects.

Non-structural FMS or FMP such as conservation practices that potentially reduce sediment production at the source are expected to reduce sedimentation in both structural FMS or FMP and large downstream reservoirs.

### 4B.4.e. Estimated Capital Cost of FMPs and FMSs

Cost estimates for each FMP were acquired from the engineering report that was used to generate the FMP. Cost estimates were adjusted as needed to account for inflation and other changes in price of labor and commodities that had taken place since the publication date of the original reports. In addition, cost estimates were adjusted as needed to include any applicable non-recurring and recurring project costs as listed on Table 22 of the *Technical Guidance*. The cost estimates listed in **Table 13** and **Table 14** are expressed in September 2020 dollars (see **Appendix 4.1**).

Cost estimates for each FMS were acquired from the HMAPs that were used to generate the FMS. Cost assumptions from **Table 4.17** were used if the HMAPs did not have associated costs or if the reported costs were lower than the cost assumptions. The cost assumptions are expressed in 2020 dollars and were developed based on engineering experience and other similar projects.

FMS cost estimates presented in this section are for planning purposes only and are not supported by detailed scopes of work or workhour estimates. The RFPG anticipates that the local sponsor will develop detailed scopes of work and associated cost estimates prior to submitting any future funding application through TWDB or other sources.

*Table 4.17: FMS Cost Estimates Assumptions*

| FMS Type | Cost Estimate Range | Scope and Assumptions |
|---|---|---|
| Education and Outreach | $50,000 | "Turn Around Don't Drown" Campaign: Assume $50,000 based on other similar educational programs. |
| | | NFIP Public Education: Assume $50,000 based on other similar educational programs. |
| Flood Measurement and Warning | $250,000 to $500,000 | Early/Local Flood Warning System: Assume $250,000 based on similar projects that have received TWDB FIF grants. |
| | | Rain/Stream Gauge and Weather Station Installation: Assume $250,000 based on similar projects that have received TWDB FIF grants. |
| | | Low Water Crossing Warning Devices: Assume $250,000 based on similar projects that have received TWDB FIF grants. |
| Infrastructure Projects | $500,000 to $35,000,000 | HROM Program: Assume $35,000,000 based on high level engineering consultant estimate. |
| Other | $50,000 to $5,000,000 | Debris Clearing Maintenance Program: Assume $100,000 based on a similar project in the Region. |
| | | Channel Maintenance and Erosion Control: Assume $250,000 based on high level engineering consultant estimate. |
| | | Dam Inspection Program: Assume $100,000 per dam per year based on high level engineering consultant estimate. |
| | | Levee Inspection Program: Assume $50,000 per levee system per year based on high level engineering consultant estimate. |
| | | Establish City Parks: Assume $1,000,000 based on high level engineering consultant estimate. |
| | | Implement Green Infrastructure: Assume $500,000 based on high level engineering consultant estimate. |
| Property Acquisition and Structural Elevation | $5,000,000 to $50,000,000 | Acquire High Risk and Repetitive Loss Properties: Assume $5,000,000 to acquire as many properties as possible with this cost. This assumption is based on other similar projects in the Region. |
| | | Acquire and Preserve Open Space: Assume $5,000,000 based on other similar projects in the Region. |
| Regulatory and Guidance | $100,000 to $1,000,000 | City Floodplain Ordinance Creation/Update: Assume $100,000 to cover engineering consultant fees. |
| | | Zoning Regulations and Land Use Programs: Assume $100,000 to cover engineering consultant fees. |
| | | Stormwater Management Plan: Assume $300,000 to cover engineering consultant fees. |
| | | Levy Stormwater Fee: Assume $200,000 based on another similar project. |

### 4B.4.f. Benefit-Cost Ratio for FMPs

Benefit-Cost Analysis (BCA) is the method by which the future benefits of a hazard mitigation project are determined and compared to its costs. The end result is a Benefit-Cost Ratio (BCR), which is calculated by dividing the project's total benefits, quantified as a dollar amount, by its total costs. The BCR is a numerical expression of the relative "cost-effectiveness" of a project. A project is generally considered to be cost effective when the BCR is 1.0 or greater, indicating the benefits of a prospective hazard mitigation project are sufficient to justify the costs (Federal Emergency Management Agency, 2009). However, a BCR greater than 1.0 is not a requirement for inclusion in the Regional Flood Plan. The RFPG can recommend a project with a lower BCR with appropriate justification.

When a BCR had been previously calculated in an engineering report or study that was used to create an FMP, the previously calculated BCR value was utilized for the FMP analysis. For any FMP that did not already have a calculated BCR value, the TWDB BCA Input Spreadsheet was utilized in conjunction with the FEMA BCA Toolkit 6.0 to generate BCR values.

### 4B.4.g. Residual, Post-Project, and Future-Risks of FMPs

While it is not possible to protect against all potential flood risks, the evaluation of FMPs should consider their associated residual, post-project and future risks including the risk of potential catastrophic failure and the potential for future increases to these risks due to lack of maintenance. For more details of the approach and TWDB's proposed scoring guidelines, please see TWDB's Exhibit C: Technical Guidelines for Regional Flood Planning (TWDB, 2021).

#### *Residual Risk*

Residual risk describes the risks after structural or non-structural FMPs have been implemented (UNDRR, 2020). Even after meeting the FMP goals, residual flood risk will remain (TWDB, 2021). The flood planning group must consider and identify residual risk for each goal identified. As an example, if the goal is to protect all life and property from the 1 percent flood (100-year flood) events, the residual risk to life and property remains for flood events that exceed a 1 percent likelihood.

The group's overarching goals should be determined first with a clear summary of the residual risk, including 'transformed' risk, that would remain in the region even after the stated goals are met. Transformed risk is defined by U.S. Army Corps of Engineers (USACE) as the change in the nature of flood risk for some area associated with the presence of flood hazard reduction infrastructure. Flood risk is often reduced by the construction of flood mitigation structures but, as a result, may also be 'transformed' into a different type of risk, for example, in the form of risk from structural failure of that mitigation infrastructure (e.g., a dam or levee).

Residual risks by nature have a low probability of occurrence. However, keeping it low requires continuing maintenance of FMPs and effective emergency services for preparedness, response, and recovery as a holistic approach.

#### *Post-Project Risk*

Post-project risk analysis is typically utilized to gather information for evaluating the final risk impacts at the completion of a project. The project manager uses a report of the post-project risk analysis to inform stakeholders and decision-makers with a general idea of what worked well and what did not in the PMP,

so future projects can benefit from the lessons learned. The post-project information can be used to prioritize a list of recommended FMPs with a set of criteria, including:

1. post-project 100-year flood risk reduction,
2. post-project 100-year critical facilities damage reduction,
3. post-project 100-year flood damage reduction, and
4. post-project improvement of mobility.

### *Post-Project 100-year Flood Risk Reduction*

After a project is constructed, this analysis indicates the reduced flood risk by percentage of structures removed from a 100-year floodplain in the post-project condition, using the data of:

1. 100-year floodplain shapefiles with elevations in the pre- and post-project conditions,
2. structures within the 100-year floodplains in the pre- and post-project conditions,
3. land elevations, structure shapefiles, and
4. others.

### *Post-Project 100-year Flood Damage Reduction*

After construction, this analysis indicates flood damage reduction (property protection) by a percentage of 100-year damage reduction calculation, using the data of:

1. average depth of a 100-year flood in the pre-project condition,
2. shapefiles, elevations, or average depth/reduction of the 100-year flood in the post-project condition,
3. shapefiles, land elevations, structure shapefiles, and
4. others.

### *Post-project 100-year Critical Facilities Damage Reduction*

Following construction, this analysis indicates reduced flood risk by percentage of critical facilities removed from a 100-year floodplain in the post-project condition, using the data of:

1. average depth of the 100-year flood in the pre-project condition,
2. floodplain shapefile, elevations, or average depth/reduction of the 100-year flood in the post-project condition, and
3. critical facilities in the 100-year floodplains in the pre- and post-project conditions.

### *Mobility*

This criterion indicates project improvement and protection of mobility during flood events, with particular emphasis on emergency service access and other major access routes, using the data of:

1. 100-year floodplain shapefile with elevations in the pre- and post-project conditions,
2. TxDOT Functional Classification Shapefile,
3. project shapefile and others.

### *Future Risks*

Future flood risks shall be determined with considering three components:

1. flood hazards in future condition;
2. additional exposure and vulnerability; and
3. operations and maintenance (O&M) and design standards

#### *Flood Hazards in Future Condition*

Future risk analysis of FMPs should consider the changes of flood risks in future conditions. The factors that may result in such altered flood hazards, include: increase of impervious surface cover, change in sea level and/or land subsidence, anticipated erosion, and sedimentation in flood control structures. In particular, any future flood risk analysis should take into account potential effects of climate change on future rainfall patterns, flood frequency, and magnitude, which will possibly lead to substantial increases in future flood risks over areas with greater population.

Information from any existing resources like hydrologic and hydraulic model results and maps should be summarized with details in terms of the source of flood hazard data, associated dates, timeframe of future conditions (fully developed land use conditions, 30-year., 50-year., etc.), and a brief description of each existing dataset compiled for flood hazard analysis. If the flood hazard data for the future condition is not available in the region of FMPs, TWDB suggested to perform one of the following methods (TWDB, 2021):

**Method 1**: Increase water surface elevation based on projected percent population increase (as proxy for development of land areas);

**Method 2**: Utilize the existing condition 0.2 percent annual chance floodplain as a proxy for the future 1 percent level;

**Method 3**: Combination of methods 1 and 2 or an RFPG-proposed method;

**Method 4**: Request TWDB for a Desktop Analysis.

#### *Additional Exposure and Vulnerability*

Exposure and vulnerability analysis identifies the existing and future flood hazard areas if the current development practices continue in the region of FMPs. According to Sections 2B.3 and 2B.4 of this plan, a rapid increase of structures and population is projected in the Trinity Region over the next 30 years. This implies that potential exposure and vulnerabilities of the population, structures, critical facilities, and public infrastructure to the flood hazards may increase. For communities interested knowing future exposure and vulnerability, they may contact FEMA for Flood Insurance Rate Maps (FIRMs) for future condition in 1 percent annual chance floodplains (FEMA, 2001). While the future condition floodplain maps cannot be used for emergency operation and insurance rating purposes, they can be used to enhance public awareness of future flood risks, exposure, and vulnerability. The detailed information of flood exposure and vulnerability analyses for the future conditions are included in Sections 2B.2 and 2B.3 of this plan.

*Operations and Maintenance and Design Standards*

Operations and maintenance (O&M), as well as the standards of public infrastructure design can greatly distress future flood risks. FMPs can fail to function as designed due to improper operations and poor maintenance. Examples of the catastrophic dam failures of Oroville Dam in California in 2017 and Edenville Dam in Michigan in 2020 resulted in massive floods from the combination of intense rainfall events and lack of maintenance.

Future risks of structural failures can increase if the FMPs are not properly managed and maintained. Thus, re-evaluation of the design standards and requirements of operations and maintenance of FMPs should be considered to reduce future risks. Minimum and most stringent specifications of the design standards of FMPs should be followed to prepare for flood hazard in the future.

### 4B.4.h. Implementation Issues of FMPs

Project implementation issues include conflicts pertaining to rights-of-way, permitting, acquisitions, utility, or transportation relocations, amongst other issues that might be encountered before an FMP is able to be fully implemented. Such issues are an inherent part of flood mitigation projects.

Because a right-of-way is a public path across private land, it can create issues when securing access to projects for construction and maintenance. The acquisition of right-of-way or other property and utility relocation located near or on property impacted by a project requires close coordination between the state, cities, counties and other forms of local government, as well as private entities and land owners. Coordination with the appropriate entities is key to facilitating projects. The Right-of-Way Division of TXDOT coordinates the acquisition of land to build, widen or enhance highways, and provides relocation assistance when needed.

Most FMPs will require a variety of permits to ensure that they are following best practices, meeting code requirements, following regulations, and adhering to the laws and regulations. During the implementation of any project, the goal is to obtain and acquire all necessary and required permits and approvals as efficiently as possible. Acquiring permits can also be a lengthy process but is an essential step in any flood mitigation project.

The terms “buyout” and “acquisition” are often utilized interchangeably, but in the context of flood protection, both refer generally to the purchase of private property by the government for public use. After properties are purchased through a buyout program, the land is converted to open space. In the case of flood acquisitions, the process involves the purchase of a property in a floodplain in order to reduce the damage of future flooding on the site and/or for properties adjacent to the one being acquired.

Voluntary property acquisition is not a simple process and requires agreement by the property owner and local jurisdiction. If state or federal funding is involved, then the property acquisition could also include other governmental officials, the state and the federal agencies. Voluntary buyout programs are a specific subset of property acquisitions in which private lands are purchased, existing structures are demolished, and the land is returned to its natural undeveloped state for public use in perpetuity. Buyouts are voluntary and no one is required to sell their property which provides no guarantee of acquisition. The process can also be financially burdensome as well as lengthy.

Additional issues can arise with utility relocation. Utilities may include water lines, wastewater lines, stormdrain systems, telecommunication, power lines, and other similar infrastructure. Utilities may be buried below the surface, attached to the side of bridges or aerial. Utilities located in a road or highway right of way may need to be relocated to allow for construction of a mitigation project. The local government is usually responsible for utility relocations; however, TxDOT may assume responsibility, particularly for projects along the state highway system. Developers may also assume responsibility for utility relocations depending on the project. Utility relocation means the adjustment of a utility facility required for the construction of a project. It includes removing and reinstalling the facility, including necessary temporary facilities; acquiring necessary right-of-way on new location; moving, rearranging, or changing the type of existing facilities; and taking any necessary safety and protective measures. Such measures can be time consuming as well as costly.

## *4B.5 Potential Funding Sources*

A wide variety of funding opportunities could be utilized to fund the identified actions. Traditionally, stormwater and flood mitigation project funding sources have either been locally sourced user fees or general taxes, or externally by state and federal grants. While low-interest loan programs do provide for additional funding, few local entities chose this option due to the lack of a dedicated funding source sufficient to cover debt service. Therefore, many communities adopted a “pay-as-you-go” method of funding stormwater projects or in the event of a disaster, applying for state and federal disaster recovery grants. Today, communities have a broader range of funding sources and programs that include the above plus recently created mitigation grant and loan programs, such as the FEMA Building Resilient Infrastructure and Communities (BRIC) and the TWDB Flood Infrastructure Fund (FIF). The potential funding sources for the identified FME, FMP and FMS are listed in **Tables 12**, **13** and **14**, respectively (see **Appendix 4.1**). Further details on funding opportunities and the anticipated funding sources for the recommended actions are included in **Chapter 9**.

# Appendix 4-1

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000001 | Archer County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Archer | 12060201, 12030101, 11130209, 11130206, 12060101 | 120402030105, 120302030307, 120402030106, 120402030200, 120302030306, 120302030304 | South Fork Trinity River-West Fork Trinity River, Prickly Pear Branch-West Fork Trinity River, Dead Horse Creek-Brushy Creek, Flat Creek-West Fork Trinity River | Watershed Planning | 922.67 | Riverine | Archer County | Archer County | N | $1,254,000 | |
| 031000002 | Anderson County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Anderson | 12030201, 12030105, 12020001 | | | Watershed Planning | 1,073.46 | Riverine | Anderson County | Anderson County | N | $1,500,000 | |
| 031000003 | Chambers County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Chambers | 12030203, 12040203, 12040204, 12040201, 12040202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Cow Island Bayou, Turtle Bayou, Lynchburg Canal-Old River, Lost River-Old River | Watershed Planning | 629.71 | Riverine | Chambers County | Chambers County | N | $874,000 | |
| 031000004 | Clay County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Clay | 12030101, 11130209, 11130102, 11130206, 11130201 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Crooked Creek, Flat Creek-West Fork Trinity River, Lodge Creek, Turkey Creek, Jones Creek, Prairie Branch, South Creek-Big Sandy Creek | Watershed Planning | 1,107.64 | Riverine | Clay County | Clay County | N | $1,470,000 | |
| 031000005 | Collin County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Collin | 12030106, 12030103, 12030105, 12010001 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Crooked Creek, Flat Creek-West Fork Trinity River, Lodge Creek, Turkey Creek, Jones Creek, Prairie Branch, South Creek-Big Sandy Creek | Watershed Planning | 883.19 | Riverine | Collin County | Collin County | N | $1,041,000 | |
| 031000006 | Cooke County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Cooke | 12030103, 12030104, 11130210, 11130201 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Crooked Creek, Flat Creek-West Fork Trinity River, Lodge Creek, Turkey Creek, Jones Creek, Prairie Branch, South Creek-Big Sandy Creek | Watershed Planning | 893.01 | Riverine | Cooke County | Cooke County | N | $1,133,000 | |
| 031000007 | Denton County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Denton | 12030103, 12030104, 12030105 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Crooked Creek, Flat Creek-West Fork Trinity River, Lodge Creek, Turkey Creek, Jones Creek, Prairie Branch, South Creek-Big Sandy Creek | Watershed Planning | 948.44 | Riverine | Denton County | Denton County | N | $1,140,000 | |
| 031000008 | Ellis County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Ellis | 12030109, 12030102, 12030105, 12030108 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Crooked Creek, Flat Creek-West Fork Trinity River, Lodge Creek, Turkey Creek, Jones Creek, Prairie Branch, South Creek-Big Sandy Creek | Watershed Planning | 947.79 | Riverine | Ellis County | Ellis County | N | $1,182,000 | |
| 031000009 | Fannin County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Fannin | 12030106, 11140101, 11140301, 11140102 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 896.79 | Riverine | Fannin County | Fannin County | N | $1,183,000 | |
| 031000010 | Freestone County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Freestone | 12030201, 12070103, 12030105, 12030108 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 888.14 | Riverine | Freestone County | Freestone County | N | $1,201,000 | |
| 031000011 | Grayson County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Grayson | 12030106, 11140101, 12030103, 11130210 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 976.48 | Riverine | Grayson County | Grayson County | N | $1,228,000 | |
| 031000012 | Grimes County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Grimes | 12070103, 12040101, 12070101, 12040102, 12030202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Simes Creek-Bedias Creek, North Bedias Creek-Bedias Creek, Rocky Creek-Bedias Creek, Pine Creek-South Bedias Creek, Sulphur Creek-South Bedias Creek | Watershed Planning | 798.66 | Riverine | Grimes County | Grimes County | N | $1,334,000 | |
| 031000013 | Henderson County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Henderson | 12030201, 12030107, 12030105, 12020001 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Simes Creek-Bedias Creek, North Bedias Creek-Bedias Creek, Rocky Creek-Bedias Creek, Pine Creek-South Bedias Creek, Sulphur Creek-South Bedias Creek | Watershed Planning | 944.75 | Riverine | Henderson County | Henderson County | N | $1,295,000 | |
| 031000014 | Hill County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Hill | 12030109, 12070103, 12030108, 12060202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Simes Creek-Bedias Creek, North Bedias Creek-Bedias Creek, Rocky Creek-Bedias Creek, Pine Creek-South Bedias Creek, Sulphur Creek-South Bedias Creek | Watershed Planning | 981.71 | Riverine | Hill County | Hill County | N | $1,272,000 | |
| 031000015 | Hood County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Hood | 12060201, 12030102, 12060202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | South Bear Creek | Watershed Planning | 438.61 | Riverine | Hood County | Hood County | N | $539,000 | |
| 031000016 | Houston County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Houston | 12020002, 12030201, 12020001, 12030202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | South Bear Creek | Watershed Planning | 1,231.75 | Riverine | Houston County | Houston County | N | $1,809,000 | |
| 031000017 | Hunt County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Hunt | 12030106, 11140301, 12030107, 12010003, 12010001 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Watershed Planning | 879.19 | Riverine | Hunt County | Hunt County | N | $1,064,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000001 | Archer County FEMA Mapping | 1 | 0 | 5 | 0 | 0 | | 7.90 | 4,393.65 | | |
| 031000002 | Anderson County FEMA Mapping | 667 | 416 | 1,408 | 11 | 32 | | 73.34 | 36,103.84 | | |
| 031000003 | Chambers County FEMA Mapping | 2,225 | 1,698 | 7,117 | 24 | 5 | | 53.15 | 4,747.46 | | |
| 031000004 | Clay County FEMA Mapping | 28 | 27 | 16 | 0 | 0 | | 17.72 | 4,620.75 | | |
| 031000005 | Collin County FEMA Mapping | 2,842 | 2,401 | 17,576 | 28 | 86 | | 145.78 | 34,153.61 | | |
| 031000006 | Cooke County FEMA Mapping | 1,328 | 964 | 2,077 | 10 | 74 | | 81.36 | 40,870.18 | | |
| 031000007 | Denton County FEMA Mapping | 4,675 | 3,634 | 18,656 | 89 | 177 | | 245.07 | 53,344.36 | | |
| 031000008 | Ellis County FEMA Mapping | 2,712 | 2,240 | 8,472 | 36 | 163 | | 214.41 | 90,231.04 | | |
| 031000009 | Fannin County FEMA Mapping | 139 | 119 | 93 | 2 | 6 | | 4.40 | 1,782.81 | | |
| 031000010 | Freestone County FEMA Mapping | 557 | 237 | 389 | 13 | 31 | | 90.63 | 48,504.25 | | |
| 031000011 | Grayson County FEMA Mapping | 436 | 376 | 541 | 12 | 50 | | 42.70 | 21,311.84 | | |
| 031000012 | Grimes County FEMA Mapping | 109 | 69 | 49 | 1 | 9 | | 13.04 | 9,748.66 | | |
| 031000013 | Henderson County FEMA Mapping | 2,066 | 1,602 | 5,064 | 22 | 23 | | 74.63 | 40,351.02 | | |
| 031000014 | Hill County FEMA Mapping | 127 | 83 | 109 | 4 | 26 | | 24.10 | 24,894.73 | | |
| 031000015 | Hood County FEMA Mapping | 0 | 0 | 0 | 0 | 0 | | 0.00 | 136.89 | | |
| 031000016 | Houston County FEMA Mapping | 290 | 192 | 321 | 10 | 45 | | 110.11 | 12,612.35 | | |
| 031000017 | Hunt County FEMA Mapping | 27 | 16 | 7 | 0 | 1 | | 3.92 | 2,148.95 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000018 | Jack County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Jack | 12060201, 12030101 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Watershed Planning | 917.33 | Riverine | Jack County | Jack County | N | $1,122,000 | |
| 031000019 | Johnson County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Johnson | 12030109, 12060201, 12030102, 12060202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Watershed Planning | 730.85 | Riverine | Johnson County | Johnson County | N | $977,000 | |
| 031000020 | Kaufman County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Kaufman | 12030106, 12030107, 12030105, 12010001 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Watershed Planning | 804.43 | Riverine | Kaufman County | Kaufman County | N | $985,000 | |
| 031000021 | Leon County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Leon | 12030201, 12070103, 12030202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Watershed Planning | 1,075.85 | Riverine | Leon County | Leon County | N | $1,503,000 | |
| 031000022 | Liberty County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Liberty | 12040103, 12030203, 12040203, 12040201, 12040202, 12020007, 12030202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Watershed Planning | 1,169.45 | Riverine | Liberty County | Liberty County | N | $1,214,000 | |
| 031000023 | Limestone County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Limestone | 12030201, 12070103, 12070101, 12030108, 12060202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | North Fork Pin Oak Creek, Munger Branch, Elm Creek, Alligator Creek-Pin Oak Creek, Elm Creek-Tehuacana Creek, Cedar Creek | Watershed Planning | 928.88 | Riverine | Limestone County | Limestone County | N | $1,272,000 | |
| 031000024 | Madison County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Madison | 12070103, 12030202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | North Fork Pin Oak Creek, Munger Branch, Elm Creek, Alligator Creek-Pin Oak Creek, Elm Creek-Tehuacana Creek, Cedar Creek | Watershed Planning | 469.95 | Riverine | Madison County | Madison County | N | $724,000 | |
| 031000025 | Montague County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Montague | 12030103, 12030104, 12030101, 11130209, 11130201 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | North Fork Pin Oak Creek, Munger Branch, Elm Creek, Alligator Creek-Pin Oak Creek, Elm Creek-Tehuacana Creek, Cedar Creek | Watershed Planning | 933.20 | Riverine | Montague County | Montague County | N | $1,203,000 | |
| 031000026 | Navarro County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Navarro | 12030109, 12030201, 12030107, 12030105, 12030108 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | North Fork Pin Oak Creek, Munger Branch, Elm Creek, Alligator Creek-Pin Oak Creek, Elm Creek-Tehuacana Creek, Cedar Creek | Watershed Planning | 1,081.28 | Riverine | Navarro County | Navarro County | N | $1,482,000 | |
| 031000027 | Parker County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Parker | 12060201, 12030101, 12030102 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | North Fork Pin Oak Creek, Munger Branch, Elm Creek, Alligator Creek-Pin Oak Creek, Elm Creek-Tehuacana Creek, Cedar Creek | Watershed Planning | 902.80 | Riverine | Parker County | Parker County | N | $1,144,000 | |
| 031000028 | Polk County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Polk | 12020002, 12020006, 12020007, 12030202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | North Fork Pin Oak Creek, Munger Branch, Elm Creek, Alligator Creek-Pin Oak Creek, Elm Creek-Tehuacana Creek, Cedar Creek | Watershed Planning | 1,105.57 | Riverine | Polk County | Polk County | N | $1,560,000 | |
| 031000029 | Rockwall County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Rockwall | 12030106, 12030107, 12010001 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Camp Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Long Branch-Buffalo Creek, Upper Big Brushy Creek, High Point Creek | Watershed Planning | 148.04 | Riverine | Rockwall County | Rockwall County | N | $252,000 | |
| 031000030 | San Jacinto County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | San Jacinto | 12040103, 12030203, 12030202 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 625.52 | Riverine | San Jacinto County | San Jacinto County | N | $907,000 | |
| 031000031 | Trinity County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Trinity | 12020002, 12030202 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 709.83 | Riverine | Trinity County | Trinity County | N | $989,000 | |
| 031000032 | Van Zandt County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Van Zandt | 12030107, 12020001, 12010001 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 856.15 | Riverine | Van Zandt County | Van Zandt County | N | $1,272,000 | |
| 031000033 | Walker County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Walker | 12040103, 12040101, 12030202 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 797.63 | Riverine | Walker County | Walker County | N | $1,276,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000018 | Jack County FEMA Mapping | 268 | 105 | 231 | 0 | 6 | | 54.58 | 33,805.24 | | |
| 031000019 | Johnson County FEMA Mapping | 1,839 | 1,544 | 4,877 | 21 | 418 | | 61.68 | 13,054.41 | | |
| 031000020 | Kaufman County FEMA Mapping | 2,086 | 1,672 | 4,193 | 26 | 38 | | 148.13 | 88,118.05 | | |
| 031000021 | Leon County FEMA Mapping | 50 | 43 | 40 | 11 | 31 | | 99.56 | 2,040.32 | | |
| 031000022 | Liberty County FEMA Mapping | 8,682 | 8,049 | 12,221 | 72 | 21 | | 256.55 | 48,897.01 | | |
| 031000023 | Limestone County FEMA Mapping | 62 | 33 | 53 | 2 | 13 | | 12.88 | 10,683.74 | | |
| 031000024 | Madison County FEMA Mapping | 409 | 345 | 327 | 4 | 19 | | 58.40 | 45,093.89 | | |
| 031000025 | Montague County FEMA Mapping | 37 | 12 | 19 | 4 | 20 | | 56.77 | 3,015.10 | | |
| 031000026 | Navarro County FEMA Mapping | 1,759 | 995 | 2,576 | 19 | 139 | | 211.14 | 106,570.30 | | |
| 031000027 | Parker County FEMA Mapping | 1,953 | 1,485 | 6,748 | 37 | 49 | | 60.73 | 25,497.34 | | |
| 031000028 | Polk County FEMA Mapping | 3,485 | 3,119 | 5,167 | 38 | 18 | | 92.37 | 15,993.65 | | |
| 031000029 | Rockwall County FEMA Mapping | 411 | 371 | 1,553 | 10 | 19 | | 33.76 | 4,484.99 | | |
| 031000030 | San Jacinto County FEMA Mapping | 2,637 | 2,505 | 3,161 | 19 | 1 | | 82.53 | 11,298.66 | | |
| 031000031 | Trinity County FEMA Mapping | 1,312 | 1,128 | 1,895 | 38 | 4 | | 53.77 | 9,960.17 | | |
| 031000032 | Van Zandt County FEMA Mapping | 118 | 50 | 151 | 3 | 24 | | 37.47 | 1,378.73 | | |
| 031000033 | Walker County FEMA Mapping | 1,654 | 1,480 | 4,303 | 13 | 15 | | 58.59 | 28,691.27 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000034 | Wise County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000005, 03000006 | Wise | 12030103, 12030104, 12030101, 12030102 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 919.53 | Riverine | Wise County | Wise County | N | $1,317,000 | |
| 031000035 | Young County FEMA Mapping | Create FEMA mapping in previously unmapped areas and update existing FEMA mapping as needed. | 03000005, 03000006 | Young | 12060201, 12030101, 11130209, 12060101, 12060104 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | South Fork Trinity River-West Fork Trinity River, Prickly Pear Branch-West Fork Trinity River, Dead Horse Creek-Brushy Creek, Plum Creek, Upper Cameron Creek | Watershed Planning | 927.47 | Riverine | Young County | Young County | N | $1,407,000 | |
| 031000036 | East Fork Trinity HUC-8 - East Fork Trinity and Tributaries Flood Risk Identification | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000001, 03000002, 03000005, 03000006, 03000025, 03000026 | Grayson , Fannin , Hunt , Collin , Rockwall , Dallas , Kaufman | 12030106, 11140101, 12030103, 11140301, 12030107, 12030105, 12010001 | 120301020401 | Quil Miller Creek-Village Creek | Watershed Planning | 1,298.72 | Riverine | NCTCOG | NCTCOG | N | $4,582,000 | |
| 031000037 | Denton HUC-8 - Hog Branch Flood Risk Identification | Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed. | 03000001, 03000002, 03000005, 03000006, 03000025, 03000026 | Denton | 12030103, 12030104, 12030101, 12030102, 11130201 | 120301020401 | Quil Miller Creek-Village Creek | Watershed Planning | 717.03 | Riverine | NCTCOG | NCTCOG | N | $1,115,000 | |
| 031000038 | Collin County Dam Inundation Study | Inundation studies of all high and moderate hazard dams | 03000009, 03000010, 03000029, 03000030 | Collin | 12030106, 12030103, 12030105, 12010001 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101, 120301060403, 120301070102, 120100010302 | South Fork Trinity River-West Fork Trinity River, Prickly Pear Branch-West Fork Trinity River, Dead Horse Creek-Brushy Creek, Plum Creek, Upper Cameron Creek | Watershed Planning | 883.19 | Riverine | Collin County | Collin County | N | $855,000 | |
| 031000039 | Chambers County Dam/Levee Failure Inundation Map Updates | Update dam and levee failure inundation maps. | 03000009, 03000010, 03000029, 03000030 | Chambers | 12030203, 12040203, 12040204, 12040201, 12040202 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Cow Island Bayou, Turtle Bayou, Lynchburg Canal-Old River, Lost River-Old River | Watershed Planning | 629.71 | Riverine | Chambers County, Anahuac, Beach City, Mount Belvieu, Cove, Chambers-Liberty Counties Navigation District, and Old-River-Winfree | Chambers County, Anahuac, Beach City, Mount Belvieu, Cove, Chambers-Liberty Counties Navigation District, and Old-River-Winfree | N | $462,000 | |
| 031000040 | Dallas County Dam Inundation Study | Conduct studies to develop dam inundation maps and models | 03000009, 03000010, 03000029, 03000030 | Dallas | 12030106, 12030103, 12030109, 12030104, 12030102, 12030105 | 120302030202, 120402030105, 120302030203, 120402040100, 120402020300, 120302030307, 120402010100, 120402020400, 120402040200, 120402020200, 120302030204, 120402030106, 120402030200, 120402020100, 120302030306, 120302030304, 120402030104 | Cow Island Bayou, Turtle Bayou, Lynchburg Canal-Old River, Lost River-Old River | Watershed Planning | 904.92 | Riverine | Dallas County | Dallas County | N | $587,000 | |
| 031000041 | Lake Ray Hubbard and Duck Creek Tributary Inundation Study | Conduct studies to develop inundation maps for Lake Ray Hubbard and Duck Creek Tributary and how it affects the Town of Sunnyvale. | 03000005, 03000006, 03000007, 03000008 | Dallas | 12030106, 12030105 | 120301060409, 120301050106, 120301060504, 120301060407, 120301050105, 120301060408, 120301050104, 120301060501, 120301060503 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Preparedness | 42.32 | Riverine | Sunnyvale | Sunnyvale | N | $500,000 | |
| 031000042 | Denton County Dam Inundation Study | Inundation studies of all high and moderate hazard dams | 03000009, 03000010, 03000029, 03000030 | Denton | 12030103, 12030104, 12030105 | 120301060409, 120301050106, 120301060504, 120301060407, 120301050105, 120301060408, 120301050104, 120301060501, 120301060503 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 948.44 | Riverine | Denton County | Denton County | N | $613,000 | |
| 031000043 | Ellis County Dam Inundation Study | Inundation studies of all high and moderate hazard dams | 03000009, 03000010, 03000029, 03000030 | Ellis | 12030109, 12030102, 12030105, 12030108 | 120301060409, 120301050106, 120301060504, 120301060407, 120301050105, 120301060408, 120301050104, 120301060501, 120301060503 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 947.79 | Riverine | Ellis County, Alma, Bardwell, Ennis, Ferris, Garrett, Italy, Maypearl, Midlothian, Milford, Oak Leaf, Ovilla, Palmer, Red Oak, Waxahachie | Ellis County, Alma, Bardwell, Ennis, Ferris, Garrett, Italy, Maypearl, Midlothian, Milford, Oak Leaf, Ovilla, Palmer, Red Oak, Waxahachie | N | $758,000 | |
| 031000044 | Madison County Dam Inundation Study | Create dam failure inundation maps | 03000009, 03000010, 03000029, 03000030 | Madison | 12070103, 12030202 | 120301060409, 120301050106, 120301060504, 120301060407, 120301050105, 120301060408, 120301050104, 120301060501, 120301060503 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 469.95 | Riverine | Madison County | Madison County | N | $478,000 | |
| 031000045 | Navarro County Dam Inundation Study | Conduct inundation studies of all high and moderate hazard dams. | 03000009, 03000010, 03000029, 03000030 | Navarro | 12030109, 12030201, 12030107, 12030105, 12030108 | 120301060409, 120301050106, 120301060504, 120301060407, 120301050105, 120301060408, 120301050104, 120301060501, 120301060503 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 1,081.28 | Riverine | Navarro County, Corsicana, Kerens | Navarro County, Corsicana, Kerens | N | $744,000 | |
| 031000046 | Parker County Dam Inundation Study | Conduct a dam inundation study | 03000009, 03000010, 03000029, 03000030 | Parker | 12060201, 12030101, 12030102 | 120301060409, 120301050106, 120301060504, 120301060407, 120301050105, 120301060408, 120301050104, 120301060501, 120301060503 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 902.80 | Riverine | Parker County, Willow Park | Parker County, Willow Park | N | $569,000 | |
| 031000047 | Tarrant County Dam Inundation Study | Identify and evaluate high hazard dams. | 03000009, 03000010, 03000029, 03000030 | Tarrant | 12030103, 12030104, 12030101, 12030102 | 120301060409, 120301050106, 120301060504, 120301060407, 120301050105, 120301060408, 120301050104, 120301060501, 120301060503 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 900.37 | Riverine | Fort Worth, Tarrant County | Fort Worth, Tarrant County | N | $604,000 | |
| 031000048 | Irving Levee District Flood Risk Assessment | Conduct review of the area in the four levee districts that would be inundated by a levee failure. Analyze all available routes out of the Levee Districts and any new streets that would not be flooded. | 03000009, 03000010, 03000031, 03000032 | Dallas | 12030103, 12030102, 12030105 | 120301031006, 120301020706, 120301031005, 120301031004, 120301031007, 120301020701, 120301020705, 120301050101 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 67.80 | Riverine | Irving | Irving | N | $250,000 | |
| 031000049 | West Fork of the Trinity River Levee Failure Hydrologic Study | Hydrologic study to determine threat, risk, and potential impacts of flooding from levee failure along the West Fork of the Trinity River. | 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030104, 12060201, 12030101, 11130209, 12030102, 11130201 | 120301031006, 120301020706, 120301031005, 120301031004, 120301031007, 120301020701, 120301020705, 120301050101 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, City of Dallas-White Rock Creek, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River, South Mesquite Creek | Watershed Planning | 2,103.70 | Riverine | River Oaks | River Oaks | N | $2,000,000 | |
| 031000050 | City of Lavon DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Collin | 12030106 | 120301060401, 120301060307 | Price Creek-Lavon Lake, Camp Creek-Lake Ray Hubbard | Watershed Planning | 3.03 | Riverine | Lavon | Lavon | N | $250,000 | |
| 031000051 | University Park DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030103, 12030105 | 120301031007, 120301050105, 120301050101 | Bachman Branch-Elm Fork Trinity River, Turtle Creek, White Rock Creek-White Rock Lake | Watershed Planning | 3.69 | Riverine | University Park | University Park | N | $500,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000034 | Wise County FEMA Mapping | 601 | 476 | 1,545 | 25 | 53 | | 99.85 | 29,584.51 | | |
| 031000035 | Young County FEMA Mapping | 25 | 11 | 4 | 0 | 3 | | 6.81 | 5,757.37 | | |
| 031000036 | East Fork Trinity HUC-8 - East Fork Trinity and Tributaries Flood Risk Identification | 5,222 | 4,603 | 24,778 | 66 | 234 | | 273.17 | 60,443.34 | | |
| 031000037 | Denton HUC-8 - Hog Branch Flood Risk Identification | 1,002 | 752 | 4,043 | 27 | 71 | | 107.25 | 30,212.21 | | |
| 031000038 | Collin County Dam Inundation Study | 2,842 | 2,401 | 17,576 | 28 | 86 | | 145.78 | 34,153.61 | | |
| 031000039 | Chambers County Dam/Levee Failure Inundation Map Updates | 2,452 | 1,807 | 7,348 | 24 | 5 | | 53.15 | 9,200.48 | | |
| 031000040 | Dallas County Dam Inundation Study | 22,226 | 20,522 | 181,701 | 216 | 499 | | 790.82 | 31,559.98 | | |
| 031000041 | Lake Ray Hubbard and Duck Creek Tributary Inundation Study | 821 | 780 | 7,134 | 5 | 46 | | 18.63 | 519.92 | | |
| 031000042 | Denton County Dam Inundation Study | 4,675 | 3,634 | 18,656 | 89 | 177 | | 245.07 | 53,344.36 | | |
| 031000043 | Ellis County Dam Inundation Study | 2,712 | 2,240 | 8,472 | 36 | 163 | | 214.41 | 90,231.04 | | |
| 031000044 | Madison County Dam Inundation Study | 338 | 297 | 241 | 4 | 19 | | 58.40 | 43,020.88 | | |
| 031000045 | Navarro County Dam Inundation Study | 1,805 | 1,017 | 2,606 | 19 | 139 | | 211.14 | 109,464.70 | | |
| 031000046 | Parker County Dam Inundation Study | 1,953 | 1,485 | 6,748 | 37 | 49 | | 60.73 | 25,497.34 | | |
| 031000047 | Tarrant County Dam Inundation Study | 14,855 | 12,826 | 78,228 | 109 | 709 | | 467.79 | 20,102.00 | | |
| 031000048 | Irving Levee District Flood Risk Assessment | 4,589 | 4,495 | 40,893 | 26 | 38 | | 85.33 | 1,397.40 | | |
| 031000049 | West Fork of the Trinity River Levee Failure Hydrologic Study | 7,235 | 5,762 | 21,593 | 54 | 210 | | 308.16 | 114,016.70 | | |
| 031000050 | City of Lavon DMP | 4 | 4 | 4 | 2 | 1 | | 0.66 | 31.52 | | |
| 031000051 | University Park DMP | 22 | 19 | 76 | 0 | 3 | | 0.31 | 0.44 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000052 | City of Rowlett DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030106 | 120301060409, 120301060402, 120301060408, 120301060403 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard | Watershed Planning | 20.51 | Riverine | Rowlett | Rowlett | N | $500,000 | |
| 031000053 | City of Richardson DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030106, 12030105 | 120301060406, 120301060407, 120301050105, 120301050104, 120301060501, 120301060403 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, Muddy Creek-Lake Ray Hubbard, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Duck Creek | Watershed Planning | 28.54 | Riverine | Richardson | Richardson | N | $1,000,000 | |
| 031000054 | City of Cockrell Hill DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030105 | 120301050102 | Coombs Creek-Trinity River | Watershed Planning | 0.58 | Riverine | Cockrell Hill | Cockrell Hill | N | $250,000 | |
| 031000055 | City of Aubrey DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Denton | 12030103 | 120301030705, 120301030406, 120301030703, 120301030704, 120301030903 | Culp Branch-Elm Fork Trinity River, Little Elm Creek, Pecan Creek, Running Branch-Little Elm Creek, Doe Branch-Lewisville Lake | Watershed Planning | 2.93 | Riverine | Aubrey | Aubrey | N | $250,000 | |
| 031000056 | City of Argyle DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Denton | 12030103, 12030104 | 120301040304, 120301030804 | Middle Hickory Creek, Denton Creek-Grapevine Lake | Watershed Planning | 11.52 | Riverine | Argyle | Argyle | N | $250,000 | |
| 031000057 | City of Maypearl DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Ellis | 12030109 | 120301090201, 120301090104, 120301090108, 120301090105 | Lower South Fork Chambers Creek, Greathouse Branch-Chambers Creek, Middle North Fork Chambers Creek, Lower North Fork Chambers Creek | Watershed Planning | 0.83 | Riverine | Maypearl | Maypearl | N | $250,000 | |
| 031000058 | City of Dayton DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Liberty | 12030203, 12040203 | 120302030301, 120302030302, 120402030103, 120302030108, 120402030101, 120302030304, 120402030104 | Gillen Bayou, Linney Creek-Trinity River, West Prong Old River, Lynchburg Canal-Old River | Watershed Planning | 20.95 | Riverine | Dayton | Dayton | N | $250,000 | |
| 031000059 | City of Denton DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Denton | 12030103, 12030104 | 120301030803, 120301030604, 120301030801, 120301030406, 120301030605, 120301040304, 120301030802, 120301030901, 120301030602, 120301030902, 120301040205, 120301030804, 120301030805 | Gillen Bayou, Linney Creek-Trinity River, West Prong Old River, Lynchburg Canal-Old River | Watershed Planning | 96.98 | Riverine | Denton | Denton | N | $1,000,000 | |
| 031000060 | City of Madisonville DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Madison | 12030202 | 120302020506, 120302020408 | Ferry Branch-Caney Creek, Pooles Creek-Bedias Creek | Watershed Planning | 4.88 | Riverine | Madisonville | Madisonville | N | $250,000 | |
| 031000061 | City of Rockwall DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Rockwall | 12030106, 12030107, 12010001 | 120301060409, 120301060402, 120301060502, 120301060401, 120100010301, 120301070101 | Cottonwood Creek-East Fork Trinity River, Camp Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Long Branch-Buffalo Creek, Upper Big Brushy Creek | Watershed Planning | 29.88 | Riverine | Rockwall | Rockwall | N | $500,000 | |
| 031000062 | City of Everman DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030102 | 120301020403 | Village Creek-Lake Arlington | Watershed Planning | 1.75 | Riverine | Everman | Everman | N | $250,000 | |
| 031000063 | City of Colleyville DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020703 | Big Bear Creek, Little Bear Creek, Headwaters Walker Branch | Watershed Planning | 13.18 | Riverine | Colleyville | Colleyville | N | $500,000 | |
| 031000064 | Haltom City DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030102 | 120301020504, 120301020503 | Whites Branch-Big Fossil Creek, Sycamore Creek-West Fork Trinity River | Watershed Planning | 12.37 | Riverine | Haltom City | Haltom City | N | $500,000 | |
| 031000065 | City of Southlake DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030104, 12030102 | 120301040306, 120301040305, 120301020703 | Big Bear Creek, Marshall Branch-Grapevine Lake, Dove Creek-Grapevine Lake | Watershed Planning | 22.33 | Riverine | Southlake | Southlake | N | $500,000 | |
| 031000066 | City of North Richland Hills DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030102 | 120301020504, 120301020704, 120301020505, 120301020703, 120301020503 | Big Bear Creek, Little Bear Creek, Whites Branch-Big Fossil Creek, Sycamore Creek-West Fork Trinity River, Headwaters Walker Branch | Watershed Planning | 18.20 | Riverine | North Richland Hills | North Richland Hills | N | $500,000 | |
| 031000067 | City of Mansfield DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030102 | 120301020603, 120301020601, 120301020604, 120301020605, 120301020405 | Rush Creek-Village Creek, Headwaters Mountain Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Watershed Planning | 36.49 | Riverine | Mansfield | Mansfield | N | $500,000 | |
| 031000068 | City of Trinidad DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Henderson | 12030107, 12030105 | 120301050504, 120301070310, 120301070311 | Trinidad Lake-Trinity River, Caney Creek-Cedar Creek, McAllister Slough-Cedar Creek | Watershed Planning | 14.80 | Riverine | Trinidad | Trinidad | N | $250,000 | |
| 031000069 | Cedar Hill-DeSoto-Duncanville DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030109, 12030102, 12030105 | 120301020603, 120301050107, 120301050301, 120301020606, 120301050201, 120301020607, 120301090301, 120301050305 | Low Branch-Mountain Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Headwaters Fivemile Creek, Headwaters Tenmile Creek, Headwaters Red Oak Creek, Middle Red Oak Creek, Headwaters Waxahachie Creek | Watershed Planning | 68.36 | Riverine | Cedar Hil, DeSoto, Duncanville | Cedar Hil, DeSoto, Duncanville | N | $1,000,000 | |
| 031000070 | City of Athens DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Henderson | 12030201, 12030107, 12020001 | 120302010202, 120301070308, 120200010303, 120302010201, 120301070312 | Headwaters Caney Creek, Walnut Creek-Cedar Creek, Shelton Mill Branch, Upper Coon Creek | Watershed Planning | 13.48 | Riverine | Athens | Athens | N | $250,000 | |
| 031000071 | Sansom Park DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030102 | 120301020105, 120301020501, 120301020104, 120301020101 | West Fork Trinity River-Lake Worth, Live Oak Creek-West Fork Trinity River, Farmers Branch-West Fork Trinity River, Marine Creek-West Fork Trinity River | Watershed Planning | 1.20 | Riverine | Sansom Park | Sansom Park | N | $250,000 | |
| 031000072 | City of Decatur DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Wise | 12030104, 12030101 | 120301010604, 120301010601, 120301040203, 120301010511, 120301040206 | Walnut Creek-West Fork Trinity River, Waggoner Branch-Big Sandy Creek, Martin Branch-West Fork Trinity Branch, Catlett Creek-Sweetwater Creek, Oliver Creek | Watershed Planning | 8.77 | Riverine | Decatur | Decatur | N | $250,000 | |
| 031000073 | City of Waxahachie DMP (Phase 2 Continuation) | Evaluate City and identify future projects. Continue efforts of current DMP Phase 2 efforts. | 03000007, 03000008, 03000009, 03000010 | Ellis | 12030109, 12030105 | 120301090302, 120301090307, 120301050302, 120301090305, 120301090303, 120301090301, 120301090304, 120301050303, 120301090105 | Upper Red Oak Creek, Upper Grove Creek, Headwaters Waxahachie Creek, Upper Waxahachie Creek, South Prong Creek-Lake Waxahachie, Lower North Fork Chambers Creek, Middle Waxahachie Creek, Mustang Creek, Upper Big Onion Creek | Watershed Planning | 49.15 | Riverine | Waxahachie | Waxahachie | N | $752,000 | |
| 031000074 | City of Crockett DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Houston | 12030201, 12030202 | 120302010705, 120302020702 | Upper Hurricane Bayou, Spring Creek-Gail Creek | Watershed Planning | 9.24 | Riverine | Crockett | Crockett | N | $250,000 | |
| 031000075 | Town of Dish DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Denton | 12030104 | 120301040205 | Hog Branch-Denton Creek | Watershed Planning | 1.51 | Riverine | Dish | Dish | N | $250,000 | |
| 031000076 | City of Corinth DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Denton | 12030103 | 120301030902, 120301030805 | Lower Hickory Creek, Pecan Creek-Lewisville Lake | Watershed Planning | 7.80 | Riverine | Corinth | Corinth | N | $250,000 | |
| 031000077 | City of Keller DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Tarrant | 12030104, 12030102 | 120301020704, 120301040305, 120301020703, 120301020503 | Big Bear Creek, Little Bear Creek, Whites Branch-Big Fossil Creek, Marshall Branch-Grapevine Lake | Watershed Planning | 18.41 | Riverine | Keller | Keller | N | $500,000 | |
| 031000078 | Anderson County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Anderson | 12030201, 12030105, 12020001 | 120301020704, 120301040305, 120301020703, 120301020503 | Big Bear Creek, Little Bear Creek, Whites Branch-Big Fossil Creek, Marshall Branch-Grapevine Lake | Watershed Planning | 1,073.46 | Riverine | Anderson County | Anderson County | N | $500,000 | |
| 031000079 | Cooke County DMP | Evaluate County to identify future projects. | 03000007, 03000008, 03000009, 03000010 | Cooke | 12030103, 12030104, 11130210, 11130201 | 120301020704, 120301040305, 120301020703, 120301020503 | Big Bear Creek, Little Bear Creek, Whites Branch-Big Fossil Creek, Marshall Branch-Grapevine Lake | Watershed Planning | 893.01 | Riverine | Cooke County | Cooke County | N | $500,000 | |
| 031000080 | Fannin County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Fannin | 12030106, 11140101, 11140301, 11140102 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 896.79 | Riverine | Fannin County | Fannin County | N | $500,000 | |
| 031000081 | Freestone County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Freestone | 12030201, 12070103, 12030105, 12030108 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 888.14 | Riverine | Freestone County, Fairfield, Streetman, Teague, Wortham | Freestone County, Fairfield, Streetman, Teague, Wortham | N | $500,000 | |
| 031000082 | Houston County DMP | Evaluate County and Identify future projects. | 03000007, 03000008, 03000009, 03000010 | Houston | 12020002, 12030201, 12020001, 12030202 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 1,231.75 | Riverine | Houston County | Houston County | N | $500,000 | |
| 031000083 | Jack County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Jack | 12060201, 12030101 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 917.33 | Riverine | Jack County | Jack County | N | $500,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000052 | City of Rowlett DMP | 142 | 134 | 432 | 0 | 8 | | 5.24 | 293.27 | | |
| 031000053 | City of Richardson DMP | 132 | 118 | 596 | 1 | 29 | | 7.12 | 80.45 | | |
| 031000054 | City of Cockrell Hill DMP | 3 | 3 | 12 | 0 | 0 | | 0.00 | 0.00 | | |
| 031000055 | City of Aubrey DMP | 54 | 52 | 127 | 0 | 0 | | 2.08 | 189.16 | | |
| 031000056 | City of Argyle DMP | 57 | 38 | 1,309 | 3 | 3 | | 1.97 | 457.34 | | |
| 031000057 | City of Maypearl DMP | 41 | 39 | 51 | 3 | 0 | | 2.22 | 67.01 | | |
| 031000058 | City of Dayton DMP | 727 | 687 | 2,181 | 18 | 1 | | 17.87 | 1,731.98 | | |
| 031000059 | City of Denton DMP | 935 | 740 | 2,088 | 8 | 68 | | 33.97 | 3,799.85 | | |
| 031000060 | City of Madisonville DMP | 14 | 13 | 24 | 1 | 3 | | 1.89 | 108.06 | | |
| 031000061 | City of Rockwall DMP | 209 | 200 | 1,012 | 3 | 5 | | 10.47 | 693.15 | | |
| 031000062 | City of Everman DMP | 272 | 225 | 1,006 | 2 | 10 | | 5.69 | 86.03 | | |
| 031000063 | City of Colleyville DMP | 156 | 148 | 735 | 4 | 6 | | 5.00 | 131.83 | | |
| 031000064 | Haltom City DMP | 1,049 | 854 | 6,002 | 8 | 13 | | 22.52 | 71.51 | | |
| 031000065 | City of Southlake DMP | 88 | 82 | 359 | 0 | 11 | | 3.42 | 121.24 | | |
| 031000066 | City of North Richland Hills DMP | 314 | 301 | 1,194 | 0 | 14 | | 9.41 | 44.36 | | |
| 031000067 | City of Mansfield DMP | 422 | 385 | 2,492 | 4 | 15 | | 30.21 | 778.52 | | |
| 031000068 | City of Trinidad DMP | 0 | 0 | 0 | 0 | 0 | | 3.31 | 0.00 | | |
| 031000069 | Cedar Hill-DeSoto-Duncanville DMP | 1,289 | 1,241 | 9,333 | 5 | 19 | | 42.40 | 455.45 | | |
| 031000070 | City of Athens DMP | 125 | 84 | 964 | 4 | 6 | | 7.15 | 138.98 | | |
| 031000071 | Sansom Park DMP | 0 | 0 | 0 | 1 | 0 | | 0.00 | 0.00 | | |
| 031000072 | City of Decatur DMP | 34 | 25 | 298 | 2 | 0 | | 2.60 | 114.80 | | |
| 031000073 | City of Waxahachie DMP (Phase 2 Continuation) | 490 | 424 | 2,389 | 5 | 8 | | 31.53 | 2,152.15 | | |
| 031000074 | City of Crockett DMP | 136 | 106 | 241 | 4 | 0 | | 6.08 | 148.74 | | |
| 031000075 | Town of Dish DMP | 8 | 2 | 13 | 0 | 0 | | 0.14 | 180.86 | | |
| 031000076 | City of Corinth DMP | 110 | 108 | 361 | 1 | 1 | | 3.74 | 47.92 | | |
| 031000077 | City of Keller DMP | 166 | 149 | 4,380 | 4 | 14 | | 3.98 | 199.92 | | |
| 031000078 | Anderson County DMP | 667 | 416 | 1,408 | 11 | 32 | | 73.34 | 36,103.84 | | |
| 031000079 | Cooke County DMP | 1,328 | 964 | 2,077 | 10 | 74 | | 81.36 | 40,870.18 | | |
| 031000080 | Fannin County DMP | 139 | 119 | 93 | 2 | 6 | | 4.40 | 1,782.81 | | |
| 031000081 | Freestone County DMP | 557 | 237 | 389 | 13 | 31 | | 90.63 | 48,504.25 | | |
| 031000082 | Houston County DMP | 454 | 250 | 391 | 10 | 45 | | 110.11 | 28,799.85 | | |
| 031000083 | Jack County DMP | 268 | 105 | 231 | 0 | 6 | | 54.58 | 33,805.24 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000084 | Johnson County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Johnson | 12030109, 12060201, 12030102, 12060202 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 730.85 | Riverine | Johnson County | Johnson County | N | $500,000 | |
| 031000085 | Leon County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Leon | 12030201, 12070103, 12030202 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 1,075.85 | Riverine | Leon County | Leon County | N | $500,000 | |
| 031000086 | Liberty County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Liberty | 12040103, 12030203, 12040203, 12040201, 12040202, 12020007, 12030202 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 1,169.45 | Riverine | Liberty County | Liberty County | N | $500,000 | |
| 031000087 | Montague County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Montague | 12030103, 12030104, 12030101, 11130209, 11130201 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 933.20 | Riverine | Montague County | Montague County | N | $500,000 | |
| 031000088 | Parker County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Parker | 12060201, 12030101, 12030102 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 902.80 | Riverine | Parker County, Willow Park | Parker County, Willow Park | N | $500,000 | |
| 031000089 | Polk County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Polk | 12020002, 12020006, 12020007, 12030202 | 120301020704, 120301040305, 120301020703, 120301020503 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Watershed Planning | 1,105.57 | Riverine | Polk County, Livingston, Goodrich, Onalaska, Seven Oaks, Corrigan | Polk County, Livingston, Goodrich, Onalaska, Seven Oaks, Corrigan | N | $500,000 | |
| 031000090 | San Jacinto DMP | Evaluate County and Identify future projects. | 03000007, 03000008, 03000009, 03000010 | San Jacinto | 12040103, 12030203, 12030202 | 120301020704, 120301040305, 120301020703, 120301020503 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 625.52 | Riverine | San Jacinto County, Coldspring, Point Blank, Shepherd | San Jacinto County, Coldspring, Point Blank, Shepherd | N | $500,000 | |
| 031000091 | Trinity County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Trinity | 12020002, 12030202 | 120301020704, 120301040305, 120301020703, 120301020503 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 709.83 | Riverine | Trinity | Trinity | N | $500,000 | |
| 031000092 | Van Zandt County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Van Zandt | 12030107, 12020001, 12010001 | 120301020704, 120301040305, 120301020703, 120301020503 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 856.15 | Riverine | Van Zandt County | Van Zandt County | N | $500,000 | |
| 031000093 | Wise County DMP | Evaluate County and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Wise | 12030103, 12030104, 12030101, 12030102 | 120301020704, 120301040305, 120301020703, 120301020503 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 919.53 | Riverine | Wise County | Wise County | N | $500,000 | |
| 031000094 | Dallas County DMP and Vulnerability Assessment | Evaluate County to identify future projects. Risk and vulnerability assessment to determine the number of people, property and infrastructure exposed to flooding. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030106, 12030103, 12030109, 12030104, 12030102, 12030105 | 120301020704, 120301040305, 120301020703, 120301020503 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Watershed Planning | 904.92 | Riverine | Dallas County | Dallas County | N | $500,000 | |
| 031000095 | Merritt Road, Sachse Road, and Willow Lake Improvements | Hydrologic and Hydraulic Study of Stream 2E3, 2E4 and Willow Lake to determine causes of flooding along Merritt Rd and identify necessary drainage improvements. | 03000005, 03000006, 03000007, 03000008 | Collin , Dallas | 12030106 | 120301060208, 120301060402, 120301060406, 120301060408, 120301060403, 120301060405 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, East Fork Trinity River-Lavon Lake, Town of Allen-Cottonwood Creek, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Watershed Planning | 41.97 | Riverine | Sachse | Sachse | N | $144,000 | |
| 031000096 | Richardson West Fork Cottonwood Creek Watershed Study | Richardson West Fork Cottonwood Creek Watershed Study | 03000005, 03000006 | Dallas , Collin | 12030106, 12030103, 12030105 | 120301031005, 120301060407, 120301031007, 120301050105, 120301050104, 120301060501, 120301050103 | Bachman Branch-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River, Headwaters White Rock Creek, Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, Pittman Creek-Spring Creek, Duck Creek | Watershed Planning | 32.87 | Riverine | Richardson | Richardson | N | $381,000 | |
| 031000097 | Copper Canyon Poindexter Branch Flood Mitigation Plan | Copper Canyon Poindexter Branch Flood Mitigation Plan | 03000005, 03000006, 03000007, 03000008 | Denton | 12030103 | 120301031002, 120301030804, 120301030805 | Middle Hickory Creek, Lower Hickory Creek, Timber Creek | Preparedness | 6.52 | Riverine | Copper Canyon | Copper Canyon | N | $150,000 | |
| 031000098 | Holiday Park North Drainage Study Update | Area 2 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060406, 120301060407, 120301060408, 120301060501 | Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 13.81 | Riverine | Garland | Garland | N | $90,000 | |
| 031000099 | Buhler, Cresthaven, Madewell & Maryland Drainage Study Update | Area 4 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 4.68 | Riverine | Garland | Garland | N | $132,000 | |
| 031000100 | Bellaire Heights Drainage Study Update | Area 5 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 4.68 | Riverine | Garland | Garland | N | $50,000 | |
| 031000101 | Country Club Add., Club Hill Est., & Eastern Hills Est. Drainage Study Update | Area 6 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060409, 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 5.98 | Riverine | Garland | Garland | N | $127,000 | |
| 031000102 | Shorehaven-Garvon-Rosewood Terrace-Garland Heights-Freeman Heights-Range-Cooper-Barger Drainage Study Update | Area 7 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 4.68 | Riverine | Garland | Garland | N | $150,000 | |
| 031000103 | Brentwood Place-Two Worlds-Apollo East Park Village Drainage Study Update | Area 8 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060406, 120301060407, 120301060408, 120301060501 | Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 13.81 | Riverine | Garland | Garland | N | $50,000 | |
| 031000104 | Ridgewood Park-Regal Estates-Meadowcreek Square Drainage Study Update | Area 9 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 6.47 | Riverine | Garland | Garland | N | $134,000 | |
| 031000105 | Eastern Meadows-Southlake Estates-Greenbrook-Green Acres-Rosehill Acreage Drainage Study Update | Area 10 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060409, 120301060408, 120301060501, 120301060503 | Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River | Project Planning | 12.73 | Riverine | Garland | Garland | N | $81,000 | |
| 031000106 | La Prada 7 & 8 Drainage Study Update | Area 11 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 6.47 | Riverine | Garland | Garland | N | $50,000 | |
| 031000107 | Gatewood Drainage Study Update | Area 12 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 6.47 | Riverine | Garland | Garland | N | $50,000 | |
| 031000108 | Curtis Drive Drainage Study Update | Area 13 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 4.68 | Riverine | Garland | Garland | N | $50,000 | |
| 031000109 | Center Creek Plaza 8 Southgate Estates Drainage Study Update | Area 14 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 6.47 | Riverine | Garland | Garland | N | $50,000 | |
| 031000110 | Bluffview Drainage Study Update | Area 15 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060409, 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 5.98 | Riverine | Garland | Garland | N | $150,000 | |
| 031000111 | Camelot Drainage Study Update | Area 16 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060406, 120301060407, 120301060408, 120301060501 | Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 13.81 | Riverine | Garland | Garland | N | $50,000 | |
| 031000112 | Downtown Drainage Study Update | Area 17 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 4.68 | Riverine | Garland | Garland | N | $150,000 | |
| 031000113 | Main & Wilson Streets Drainage Study Update | Area 18 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106, 12030105 | 120301060407, 120301050105, 120301060408, 120301060501 | White Rock Creek-White Rock Lake, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 13.48 | Riverine | Garland | Garland | N | $50,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000084 | Johnson County DMP | 1,851 | 1,555 | 4,897 | 21 | 418 | | 61.68 | 18,202.78 | | |
| 031000085 | Leon County DMP | 730 | 491 | 816 | 11 | 31 | | 99.56 | 64,155.32 | | |
| 031000086 | Liberty County DMP | 7,897 | 7,347 | 11,279 | 72 | 21 | | 256.55 | 69,006.02 | | |
| 031000087 | Montague County DMP | 38 | 11 | 13 | 4 | 20 | | 56.77 | 1,770.86 | | |
| 031000088 | Parker County DMP | 1,953 | 1,485 | 6,748 | 37 | 49 | | 60.73 | 25,497.34 | | |
| 031000089 | Polk County DMP | 3,485 | 3,119 | 5,167 | 38 | 18 | | 92.37 | 15,993.65 | | |
| 031000090 | San Jacinto DMP | 2,637 | 2,505 | 3,161 | 19 | 1 | | 82.53 | 11,298.66 | | |
| 031000091 | Trinity County DMP | 1,200 | 1,035 | 1,768 | 38 | 4 | | 53.77 | 9,902.66 | | |
| 031000092 | Van Zandt County DMP | 231 | 142 | 179 | 3 | 24 | | 37.47 | 12,720.19 | | |
| 031000093 | Wise County DMP | 492 | 363 | 1,338 | 25 | 53 | | 99.85 | 30,832.77 | | |
| 031000094 | Dallas County DMP and Vulnerability Assessment | 22,226 | 20,522 | 181,701 | 216 | 499 | | 790.82 | 31,559.98 | | |
| 031000095 | Merritt Road, Sachse Road, and Willow Lake Improvements | 343 | 316 | 991 | 2 | 12 | | 11.93 | 1,090.11 | | |
| 031000096 | Richardson West Fork Cottonwood Creek Watershed Study | 593 | 549 | 8,944 | 3 | 31 | | 16.54 | 47.93 | | |
| 031000097 | Copper Canyon Poindexter Branch Flood Mitigation Plan | 55 | 40 | 173 | 1 | 0 | | 2.30 | 58.54 | | |
| 031000098 | Holiday Park North Drainage Study Update | 117 | 112 | 471 | 1 | 6 | | 3.02 | 65.05 | | |
| 031000099 | Buhler, Cresthaven, Madewell & Maryland Drainage Study Update | 40 | 28 | 298 | 0 | 8 | | 1.87 | 7.36 | | |
| 031000100 | Bellaire Heights Drainage Study Update | 40 | 28 | 298 | 0 | 8 | | 1.87 | 7.36 | | |
| 031000101 | Country Club Add., Club Hill Est., & Eastern Hills Est. Drainage Study Update | 10 | 10 | 26 | 0 | 1 | | 0.36 | 83.12 | | |
| 031000102 | Shorehaven-Garvon-Rosewood Terrace-Garland Heights-Freeman Heights-Range-Cooper-Barger Drainage Study Update | 40 | 28 | 298 | 0 | 8 | | 1.87 | 7.36 | | |
| 031000103 | Brentwood Place-Two Worlds-Apollo East Park Village Drainage Study Update | 117 | 112 | 471 | 1 | 6 | | 3.02 | 65.05 | | |
| 031000104 | Ridgewood Park-Regal Estates-Meadowcreek Square Drainage Study Update | 232 | 227 | 863 | 1 | 5 | | 3.98 | 44.78 | | |
| 031000105 | Eastern Meadows-Southlake Estates-Greenbrook-Green Acres-Rosehill Acreage Drainage Study Update | 13 | 8 | 24 | 3 | 3 | | 2.19 | 628.71 | | |
| 031000106 | La Prada 7 & 8 Drainage Study Update | 232 | 227 | 863 | 1 | 5 | | 3.98 | 44.78 | | |
| 031000107 | Gatewood Drainage Study Update | 232 | 227 | 863 | 1 | 5 | | 3.98 | 44.78 | | |
| 031000108 | Curtis Drive Drainage Study Update | 40 | 28 | 298 | 0 | 8 | | 1.87 | 7.36 | | |
| 031000109 | Center Creek Plaza 8 Southgate Estates Drainage Study Update | 232 | 227 | 863 | 1 | 5 | | 3.98 | 44.78 | | |
| 031000110 | Bluffview Drainage Study Update | 10 | 10 | 26 | 0 | 2 | | 0.54 | 84.70 | | |
| 031000111 | Camelot Drainage Study Update | 117 | 112 | 471 | 1 | 6 | | 3.02 | 65.05 | | |
| 031000112 | Downtown Drainage Study Update | 40 | 28 | 298 | 0 | 8 | | 1.87 | 7.36 | | |
| 031000113 | Main & Wilson Streets Drainage Study Update | 348 | 319 | 4,557 | 3 | 23 | | 9.19 | 8.29 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000114 | Royal Crest-Meadowview Drainage Study Update | Area 19 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060409, 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 5.98 | Riverine | Garland | Garland | N | $50,000 | |
| 031000115 | Garvon West, Innovation & Kingsley Ind. Park Drainage Study Update | Area 20 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106, 12030105 | 120301050105, 120301060501 | White Rock Creek-White Rock Lake, Duck Creek | Project Planning | 4.73 | Riverine | Garland | Garland | N | $150,000 | |
| 031000116 | Northlake & Castlewood Drainage Study Update | Area 21 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060407, 120301060408 | Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard | Project Planning | 4.46 | Riverine | Garland | Garland | N | $56,000 | |
| 031000117 | Legend Drive Drainage Study Update | Area 22 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 4.68 | Riverine | Garland | Garland | N | $50,000 | |
| 031000118 | Brazos Drive Drainage Study Update | Area 23 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 6.47 | Riverine | Garland | Garland | N | $50,000 | |
| 031000119 | Sweetbriar-Glenrose Alley Drainage Study Update | Area 26 | 03000005, 03000006, 03000009, 03000010 | Dallas | 12030106, 12030105 | 120301060407, 120301050105, 120301060408, 120301060501 | White Rock Creek-White Rock Lake, Pittman Creek-Spring Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 8.80 | Riverine | Garland | Garland | N | $50,000 | |
| 031000120 | Mc Adams Ditch Feasibility Study | Evaluate alternatives for improvements to Mc Adams Ditch (crosses FM 3180 South). | 03000029, 03000030 | Chambers | 12030203, 12040203 | 120302030307, 120402030106, 120402030200 | | Project Planning | 3.38 | Riverine | Chambers County | Chambers County | N | $500,000 | |
| 031000121 | Rhonda Rosa Lane Bridge | Construct bridge on Rhonda Rosa Lane in Ranches on Turtle Bayou to replace box culverts. | 03000003, 03000004, 03000029, 03000030 | Chambers | 12030203 | 120302030203, 120302030204 | Cow Island Bayou, Turtle Bayou | Project Planning | 0.04 | Riverine | Chambers County | Chambers County | N | $500,000 | |
| 031000122 | Hackberry Gully and Cotton Bayou Shelving Study | Evaluate shelving the entire length of Hackberry Gully and Cotton Bayou from South of I-10 to Cotton Lake; thereby increasing their flow capacity. | 03000027, 03000028, 03000029, 03000030 | Chambers | 12030203, 12040203 | 120402030105, 120302030307, 120402030106, 120402030200, 120302030306, 120302030304 | Lynchburg Canal-Old River, Lost River-Old River | Project Planning | 24.54 | Riverine | Chambers County | Chambers County | N | $1,250,000 | |
| 031000123 | Collin County Retention Structures Rehabilitation Project | Conduct hazard/vulnerability assessment and inundation study on NRCS flood retention structures and rehabilitate structures found to be a high hazard. | 03000009, 03000010, 03000013, 03000014, 03000033, 03000034 | Collin | 12030106, 12030103, 12030105, 12010001 | 120402030105, 120302030307, 120402030106, 120402030200, 120302030306, 120302030304 | Lynchburg Canal-Old River, Lost River-Old River | Project Planning | 883.19 | Riverine | Collin County | Collin County | N | $500,000 | |
| 031000124 | McMillen Rd Bridge Lift Project (Maxwell Creek) | Flood study to determine parameters to raise bridge at McMillen Rd to reduce flooding . | 03000003, 03000004 | Collin | 12030106 | 120301060406, 120301060403, 120301060405 | Muddy Creek-Lake Ray Hubbard, Town of Allen-Cottonwood Creek, Brown Branch-Rowlett Creek | Project Planning | 10.29 | Riverine | Wylie | Wylie | N | $495,000 | |
| 031000125 | Cooke County Low-Water Crossing Barriers Evaluation | Evaluate installation of automatic flood crossing barriers at low water crossing to prevent automobiles from driving through high water. | 03000003, 03000004 | Cooke | 12030103, 12030104, 11130210, 11130201 | 120301060406, 120301060403, 120301060405 | Muddy Creek-Lake Ray Hubbard, Town of Allen-Cottonwood Creek, Brown Branch-Rowlett Creek | Project Planning | 893.01 | Riverine | Cooke County | Cooke County | N | $500,000 | |
| 031000126 | Wheeler Creek Channelization Study | Evaluate channelization of Wheeler Creek to reduce flooding in the west side of town. | 03000031, 03000032 | Cooke | 12030103, 11130210, 11130201 | 111302100202, 120301030105, 120301030301, 111302100201, 120301030403, 120301030106, 111302010708, 120301030201 | Wheeler Creek-Pecan Creek, Montague Creek-Elm Fork Trinity River, Buck Creek-Timber Creek, Upper Indian Creek, Scott Creek-Elm Fork Trinity River | Project Planning | 39.49 | Riverine | Gainesville | Gainesville | N | $125,000 | |
| 031000127 | Pecan Creek Channelization Study | Evaluate channelization project for Pecan Creek to reduce flooding. | 03000031, 03000032 | Cooke | 12030103 | 120301030402, 120301030404, 120301030403, 120301030405 | Lower Spring Creek, Scott Creek-Elm Fork Trinity River, Pecan Creek-Elm Fork Trinity River, Pond Creek-Elm Fork Trinity River | Project Planning | 12.54 | Riverine | Valley View | Valley View | N | $100,000 | |
| 031000128 | Lindsay Waterways Improvements Study | Identify alternatives to reshape waterways to allow quicker flow in areas that have regular flooding. Study potential construction of gabion retaining walls, and widening and/or deepening of the waterway. | 03000031, 03000032 | Cooke | 12030103, 11130201 | 120301030401, 120301030403, 120301030106, 111302010707 | Montague Creek-Elm Fork Trinity River, Upper Spring Creek, Scott Creek-Elm Fork Trinity River | Project Planning | 15.14 | Riverine | Lindsay | Lindsay | N | $100,000 | |
| 031000129 | O'Neal St Low-Water Crossing Automatic Barrier Study | Evaluate installation of an automatic barricade for low-water crossing on O'Neal St. | 03000003, 03000004 | Cooke | 12030103 | 120301030105, 120301030106 | Wheeler Creek-Pecan Creek, Montague Creek-Elm Fork Trinity River | Project Planning | 10.33 | Riverine | Gainesville | Gainesville | N | $125,000 | |
| 031000130 | Elm Fork Bridge Improvements Assessment | Assessment to alleviate flooding issues with the Elm Fork bridge on I-35. | 03000003, 03000004, 03000031, 03000032 | Cooke | 12030103 | 120301030105, 120301030403, 120301030106 | Wheeler Creek-Pecan Creek, Montague Creek-Elm Fork Trinity River, Scott Creek-Elm Fork Trinity River | Project Planning | 7.23 | Riverine | Gainesville | Gainesville | N | $100,000 | |
| 031000131 | Brockbank and Embassy Channel Basin Improvements Assessment | Evaluate channel improvements on Brockbank Channel Basin north of SH 183; and Embassy Channel Basin north of SH 183 | 03000031, 03000032 | Dallas | 12030103, 12030102 | 120301031006, 120301020706, 120301031007, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Branch-Hackberry Creek, Bachman Branch-Elm Fork Trinity River | Project Planning | 9.20 | Riverine | Irving | Irving | N | $500,000 | |
| 031000132 | University Park Storm Water Infrastructure Improvements Study | Evaluation of storm drain system improvements including new storm sewer inlets, mains, and underground detention system to reduce flooding in Northeast portion of the City. | 03000031, 03000032 | Dallas | 12030103, 12030105 | 120301031007, 120301050105, 120301050101 | Bachman Branch-Elm Fork Trinity River, Turtle Creek, White Rock Creek-White Rock Lake | Project Planning | 3.69 | Riverine | University Park | University Park | N | $660,000 | |
| 031000133 | Exall and Wycliffe Dam Maintenance Protocol for Drainage Systems and Flood Control Structures | Analyze maintenance protocol for Drainage Systems/Flood Control Structures in and around the Exall and Wycliffe Dams. Conduct study to determine roadway reconstruction, culvert/bridge construction and associated bank protection and improvements | 03000033, 03000034 | Dallas | 12030105 | 120301050101 | Turtle Creek | Project Planning | 2.23 | Riverine | Highland Park | Highland Park | N | $175,000 | |
| 031000134 | Farmers Branch Retention Pond Dredging | Dredge the retention ponds along the creeks within the City. | 03000013, 03000014, 03000031, 03000032 | Dallas | 12030103 | 120301031005, 120301031004, 120301031007 | Bachman Branch-Elm Fork Trinity River, Grapevine Creek-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River | Project Planning | 12.02 | Riverine | Farmers Branch | Farmers Branch | N | $125,000 | |
| 031000135 | Ten Mile Creek Channel Expansion Study | Study to improve and increase the capacity of storm water system by expanding the Ten Mile Creek downstream channel to prevent flooding in flood prone areas to include structural stormwater management projects | 03000031, 03000032 | Dallas | 12030102, 12030105 | 120301020603, 120301050107, 120301050301, 120301020606, 120301050201, 120301020607, 120301050306, 120301050202, 120301050108, 120301050305, 120301050203 | Bachman Branch-Elm Fork Trinity River, Grapevine Creek-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River | Project Planning | 76.98 | Riverine | Lancaster | Lancaster | N | $500,000 | |
| 031000136 | Hunterwood Stream Stabilization Project | Installation and maintenance of gabion walls to mitigate stream bank erosion during extreme flood events | 03000031, 03000032, 03000033, 03000034 | Dallas | 12030103, 12030104, 12030102 | 120301040307, 120301031006, 120301031004, 120301020703 | Big Bear Creek, Cottonwood Branch-Hackberry Creek, Grapevine Creek-Elm Fork Trinity River, Cottonwood Branch-Denton Creek | Project Planning | 9.51 | Riverine | Coppell | Coppell | N | $100,000 | |
| 031000137 | Carrollton Flood Warning Barrier System Study | Procure and install flood warning barrier system to prevent motorists from driving into flooded areas. | 03000003, 03000004 | Dallas, Denton | 12030103, 12030104, 12030105 | 120301040307, 120301031002, 120301031005, 120301031004, 120301031003, 120301031001, 120301050103 | Prairie Creek-Elm Fork Trinity River, Timber Creek, Indian Creek-Elm Fork Trinity River, Grapevine Creek-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River, Cottonwood Branch-Denton Creek, Headwaters White Rock Creek | Project Planning | 37.26 | Riverine | Carrollton | Carrollton | N | $300,000 | |
| 031000138 | Westside Drive Drainage System and Street Reconstruct Study | Study to reconstruct Drainage System and Street in the 4500-4700 blocks of Westside Drive | 03000031, 03000032 | Dallas | 12030103, 12030105 | 120301031007, 120301050101 | Bachman Branch-Elm Fork Trinity River, Turtle Creek | Project Planning | 2.05 | Riverine | Highland Park | Highland Park | N | $700,000 | |
| 031000139 | Garner Rd, Chiesa Rd, and Wayne Way Storm Drain System Improvements | Evaluation of storm drain system redirection and improvements at Garner Rd, Chiesa Rd, and Wayne Way | 03000031, 03000032 | Dallas | 12030106 | 120301060409, 120301060402, 120301060408, 120301060501, 120301060403 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 10.02 | Riverine | Rowlett | Rowlett | N | $1,100,000 | |
| 031000140 | Cooks Creek Drainage Infrastructure Improvements | Evaluation of improvements to drainage infrastructure along Cooks Creek between Bee St and Spring Valley. | 03000031, 03000032 | Dallas | 12030103 | 120301031005, 120301031004 | Grapevine Creek-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River | Project Planning | 6.25 | Riverine | Farmers Branch | Farmers Branch | N | $2,000,000 | |
| 031000141 | Carrollton Drainage Upgrades | Evaluate upgrades to drainage and targeted regrading of streets and properties. Add additional drains and supporting infrastructure in older neighborhoods to increase offloading of flash flood waters. | 03000031, 03000032 | Dallas, Denton | 12030103, 12030104, 12030105 | 120301040307, 120301031002, 120301031005, 120301031004, 120301031003, 120301031001, 120301050103 | Prairie Creek-Elm Fork Trinity River, Timber Creek, Indian Creek-Elm Fork Trinity River, Grapevine Creek-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River, Cottonwood Branch-Denton Creek, Headwaters White Rock Creek | Project Planning | 37.26 | Riverine | Carrollton | Carrollton | N | $1,000,000 | |
| 031000142 | Little Elm Drainage Improvements | Evaluate drainage improvements to mitigate future flash and lake flooding problems. | 03000031, 03000032 | Denton | 12030103 | 120301030905, 120301030705, 120301030904, 120301030906, 120301030902, 120301030703, 120301030903 | Little Elm Creek, Running Branch-Little Elm Creek, Pecan Creek-Lewisville Lake, Doe Branch-Lewisville Lake, Panther Creek-Lewisville Lake, Cottonwood Branch-Lewisville Lake, Stewart Creek-Lewisville Lake | Project Planning | 22.29 | Riverine | Little Elm | Little Elm | N | $1,000,000 | |
| 031000143 | Shady Shores Rd Elevation Study | Evaluate alternatives to elevate Shady Shores Rd to reduce future loss due to flooding | 03000003, 03000004, 03000031, 03000032 | Denton | 12030103 | 120301030906, 120301030902, 120301030804, 120301030805 | Middle Hickory Creek, Lower Hickory Creek, Pecan Creek-Lewisville Lake, Stewart Creek-Lewisville Lake | Project Planning | 16.72 | Riverine | Shady Shores | Shady Shores | N | $250,000 | |
| 031000144 | Sanger Creek Waterways Reconstruction Study | Evaluate alternatives to reconstruct creek waterways to correct drainage issues | 03000031, 03000032 | Denton | 12030103 | 120301030604, 120301030602, 120301030603, 120301030405 | Pond Creek-Elm Fork Trinity River, Buck Creek-Clear Creek, Little Duck Creek-Duck Creek, Moores Branch-Clear Creek | Project Planning | 11.72 | Riverine | Sanger | Sanger | N | $600,000 | |
| 031000145 | CR 1400 drainage study | Evaluate widening road and installing box drains where necessary. | 03000003, 03000004, 03000031, 03000032 | Henderson | 12030107 | 120301070311, 120301070312, 120301070309 | Caney Creek-Cedar Creek Reservoir, McAllister Slough-Cedar Creek, Walnut Creek-Cedar Creek | Project Planning | 2.46 | Riverine | Malakoff | Malakoff | N | $500,000 | |
| 031000146 | Malone Bridge Improvements | Evaluate alternatives to elevate roadways in flood-prone areas through bridge improvements | 03000003, 03000004, 03000031, 03000032 | Hill | 12030108 | 120301080108, 120301080106 | Headwaters Ash Creek, Bynum Creek | Project Planning | 0.39 | Riverine | Malone | Malone | N | $275,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000114 | Royal Crest-Meadowview Drainage Study Update | 10 | 10 | 26 | 0 | 2 | | 0.54 | 84.70 | | |
| 031000115 | Garvon West, Innovation & Kingsley Ind. Park Drainage Study Update | 219 | 207 | 1,298 | 0 | 11 | | 3.68 | 0.11 | | |
| 031000116 | Northlake & Castlewood Drainage Study Update | 69 | 67 | 305 | 1 | 4 | | 2.34 | 95.84 | | |
| 031000117 | Legend Drive Drainage Study Update | 40 | 28 | 298 | 0 | 8 | | 1.87 | 7.36 | | |
| 031000118 | Brazos Drive Drainage Study Update | 232 | 227 | 863 | 1 | 5 | | 3.98 | 44.78 | | |
| 031000119 | Sweetbriar-Glenrose Alley Drainage Study Update | 308 | 291 | 4,259 | 3 | 15 | | 7.33 | 0.92 | | |
| 031000120 | Mc Adams Ditch Feasibility Study | 106 | 95 | 241 | 3 | 0 | | 1.54 | 551.30 | | |
| 031000121 | Rhonda Rosa Lane Bridge | 1 | 0 | 0 | 0 | 0 | | 0.08 | 0.53 | | |
| 031000122 | Hackberry Gully and Cotton Bayou Shelving Study | 1,037 | 897 | 5,159 | 13 | 2 | | 14.45 | 1,544.70 | | |
| 031000123 | Collin County Retention Structures Rehabilitation Project | 2,842 | 2,401 | 17,576 | 28 | 86 | | 145.78 | 34,153.61 | | |
| 031000124 | McMillen Rd Bridge Lift Project (Maxwell Creek) | 165 | 152 | 391 | 0 | 0 | | 5.37 | 305.89 | | |
| 031000125 | Cooke County Low-Water Crossing Barriers Evaluation | 1,328 | 964 | 2,077 | 10 | 74 | | 81.36 | 40,870.18 | | |
| 031000126 | Wheeler Creek Channelization Study | 347 | 269 | 665 | 0 | 6 | | 13.17 | 2,058.05 | | |
| 031000127 | Pecan Creek Channelization Study | 5 | 1 | 2 | 0 | 5 | | 2.09 | 306.13 | | |
| 031000128 | Lindsay Waterways Improvements Study | 46 | 27 | 61 | 1 | 0 | | 2.29 | 1,251.37 | | |
| 031000129 | O'Neal St Low-Water Crossing Automatic Barrier Study | 244 | 210 | 556 | 0 | 5 | | 7.59 | 485.56 | | |
| 031000130 | Elm Fork Bridge Improvements Assessment | 105 | 47 | 348 | 1 | 0 | | 4.29 | 1,027.23 | | |
| 031000131 | Brockbank and Embassy Channel Basin Improvements Assessment | 212 | 199 | 4,060 | 1 | 9 | | 5.91 | 143.81 | | |
| 031000132 | University Park Storm Water Infrastructure Improvements Study | 22 | 19 | 76 | 0 | 3 | | 0.31 | 0.44 | | |
| 031000133 | Exall and Wycliffe Dam Maintenance Protocol for Drainage Systems and Flood Control Structures | 17 | 15 | 250 | 0 | 4 | | 1.53 | 0.00 | | |
| 031000134 | Farmers Branch Retention Pond Dredging | 510 | 456 | 9,710 | 1 | 20 | | 23.72 | 316.38 | | |
| 031000135 | Ten Mile Creek Channel Expansion Study | 1,268 | 1,197 | 9,136 | 8 | 35 | | 39.53 | 2,245.94 | | |
| 031000136 | Hunterwood Stream Stabilization Project | 20 | 19 | 67 | 0 | 0 | | 1.23 | 26.16 | | |
| 031000137 | Carrollton Flood Warning Barrier System Study | 1,068 | 930 | 15,723 | 15 | 23 | | 48.36 | 617.10 | | |
| 031000138 | Westside Drive Drainage System and Street Reconstruct Study | 4 | 4 | 5 | 0 | 0 | | 0.19 | 0.00 | | |
| 031000139 | Garner Rd, Chiesa Rd, and Wayne Way Storm Drain System Improvements | 13 | 6 | 20 | 2 | 0 | | 4.04 | 19.61 | | |
| 031000140 | Cooks Creek Drainage Infrastructure Improvements | 216 | 121 | 13,436 | 6 | 6 | | 21.51 | 129.37 | | |
| 031000141 | Carrollton Drainage Upgrades | 1,068 | 930 | 15,723 | 15 | 23 | | 48.36 | 617.10 | | |
| 031000142 | Little Elm Drainage Improvements | 71 | 69 | 282 | 4 | 0 | | 5.89 | 788.03 | | |
| 031000143 | Shady Shores Rd Elevation Study | 206 | 170 | 583 | 5 | 4 | | 12.44 | 218.44 | | |
| 031000144 | Sanger Creek Waterways Reconstruction Study | 41 | 37 | 153 | 2 | 0 | | 4.01 | 921.33 | | |
| 031000145 | CR 1400 drainage study | 30 | 19 | 284 | 0 | 1 | | 1.57 | 42.99 | | |
| 031000146 | Malone Bridge Improvements | 0 | 0 | 0 | 0 | 0 | | 0.00 | 0.00 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000147 | FM 2114 Automated Flood Gate Feasibility Assessment | Evaluate installation of an automated flood gate that prevents traffic flow on FM 2114 within the flood-prone area during flooding events. | 03000003, 03000004 | Hill | 12030108, 12060202 | 120301080106, 120602020701, 120301080107 | Headwaters Ash Creek, Cottonwood Creek-Ash Creek | Project Planning | 8.82 | Riverine | Penelope | Penelope | N | $30,000 | |
| 031000148 | Houston County dike for critical facilities | Evaluate alternatives to build earthen dike to elevate emergency vehicle access road to critical facilities to provide protection to 500-year flood level | 03000003, 03000004, 03000011, 03000012, 03000019, 03000020 | Houston | 12020002, 12030201, 12020001, 12030202 | 120301080106, 120602020701, 120301080107 | Headwaters Ash Creek, Cottonwood Creek-Ash Creek | Project Planning | 1,231.75 | Riverine | Houston County | Houston County | N | $500,000 | |
| 031000149 | Grapeland Critical Facilities Floodproofing Assessment | Assess flood proofing critical facilities to the 500-year flood that are located in flood-prone areas of the city in Region 3 | 03000011, 03000012, 03000019, 03000020 | Houston | 12030201, 12020001 | 120200010701, 120302010702, 120302010703 | Upper Big Elkhart Creek, Little Elkhart Creek | Project Planning | 0.53 | Riverine | Grapeland | Grapeland | N | $150,000 | |
| 031000150 | Jack County WWTP and Lift Station Flood-Proofing. | Evaluate alternatives to flood-proof sewage treatment plans in flood hazard / low-lying areas. Raise electrical components of sewage lift stations above the BFE. | 03000019, 03000020 | Jack | 12060201, 12030101 | 120200010701, 120302010702, 120302010703 | Upper Big Elkhart Creek, Little Elkhart Creek | Project Planning | 917.33 | Riverine | Jack County | Jack County | N | $250,000 | |
| 031000151 | County Rd 125 Automatic Warning Barricade Installation | Evaluate alternatives to install automatic warning barricades at County Rd 125 low-water crossing | 03000003, 03000004 | Kaufman | 12030107 | 120301070205, 120301070202, 120301070201, 120301070106, 120301070203, 120301070109 | Eagans Branch-Kings Creek, Headwaters Big Cottonwood Creek, Muddy Cedar Creek, Rocky Cedar Creek, Allen Creek-Cedar Creek, Williams Creek-Cedar Creek | Project Planning | 23.09 | Riverine | Kaufman County | Kaufman County | N | $50,000 | |
| 031000152 | City of Liberty WWTP Levee Study | Study to evaluate constructing levee floodwall around waste water treatment plant | 03000019, 03000020 | Liberty | 12030203 | 120302030203, 120302030301, 120302030305, 120302030302, 120302030204, 120302030109, 120302030201, 120302030303 | Lake Bayou-Trinity River, Long Island Creek-Whites Bayou, Cow Island Bayou, Turtle Bayou, Linney Creek-Trinity River, West Prong Old River, Redmond Creek, West Branch Devers Canal-Trinity River | Project Planning | 42.25 | Riverine | Liberty | Liberty | N | $80,000 | |
| 031000153 | Liberty County Re-canalization | Evaluate alternatives to dechannelize existing feeder creeks that flow from north to south and improve drainage for storm water runoff | 03000029, 03000030 | Liberty | 12040103, 12030203, 12040203, 12040201, 12040202, 12020007, 12030202 | 120301020606, 120301020607, 120301020702 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 1,169.45 | Riverine | Liberty County | Liberty County | N | $500,000 | |
| 031000154 | Liberty County Culverts Upgrades | Evaluate alternatives to reduce flooding by increasing size of culverts to 24 inches on County Rd 2361, 2362, 2363, and 2364 and CR 2358 | 03000003, 03000004, 03000029, 03000030 | Liberty | 12030203 | 120302030109 | Lake Bayou-Trinity River | Project Planning | 3.57 | Riverine | Liberty County | Liberty County | N | $100,000 | |
| 031000155 | County Rd 2331 Re-Routing | Evaluate alternatives to re-route County Rd 2331 to area not prone to flooding | 03000013, 03000014, 03000031, 03000032 | Liberty | 12030203 | 120302030301, 120302030109, 120302030108 | Gillen Bayou, Lake Bayou-Trinity River, Linney Creek-Trinity River | Project Planning | 6.43 | Riverine | Dayton Lake Estates | Dayton Lake Estates | N | $100,000 | |
| 031000156 | "Aqueduct" Drainage System Replacement | Replace current drainage system known as the "Aqueduct" in the city. Includes creating underground drainage along North Main St | 03000031, 03000032 | Parker | 12030102 | 120301020205, 120301020203, 120301020207, 120301020204 | Clear Fork Trinity River-Lake Weatherford, Squaw Creek-Clear Fork Trinity River, Underwood Branch-Willow Creek, South Fork | Project Planning | 3.08 | Riverine | Hudson Oaks | Hudson Oaks | N | $100,000 | |
| 031000157 | Polk County Road and Drainage Improvements | Evaluate road elevation and drainage improvements. | 03000003, 03000004, 03000029, 03000030 | Polk | 12020002, 12020006, 12020007, 12030202 | 120301030604, 120301030602, 120301030603, 120301030405 | Pond Creek-Elm Fork Trinity River, Buck Creek-Clear Creek, Little Duck Creek-Duck Creek, Moores Branch-Clear Creek | Project Planning | 1,105.57 | Riverine | Polk County | Polk County | N | $500,000 | |
| 031000158 | Seven Oaks Drainage Ditches | Evaluate drainage ditch along city streets Camp Rd, Pickens Loop, Franklin Rd, Austin Street, and Hunt Street | 03000031, 03000032 | Polk | 12020006, 12030202 | 120302021003, 120200060101, 120302021001 | Barnett Creek-Long King Creek, Alexander Creek-Long King Creek | Project Planning | 7.89 | Riverine | Seven Oaks | Seven Oaks | N | $100,000 | |
| 031000159 | Old 35 Sover Sampson Creek Bridge Elevation | Evaluate alternatives to elevate bridge on Old 35 Sover Sampson Creek | 03000003, 03000004 | Polk | 12030202 | 120302021006, 120302021202 | Sanson Creek-Long King Creek, Copeland Creek | Project Planning | 4.85 | Riverine | Goodrich | Goodrich | N | $100,000 | |
| 031000160 | Pennington Rd Culverts | Evaluate alternatives to install multiple culverts under Pennington Rd | 03000003, 03000004, 03000031, 03000032 | Polk | 12030202 | 120302021006, 120302021202 | Sanson Creek-Long King Creek, Copeland Creek | Project Planning | 4.85 | Riverine | Goodrich | Goodrich | N | $100,000 | |
| 031000161 | Seven Oaks Culvert Installation | Evaluate alternatives to install multiple new culverts under Camp Rd, Pickens Loop, and Franklin Rd | 03000003, 03000004, 03000031, 03000032 | Polk | 12020006, 12030202 | 120302021003, 120200060101, 120302021001 | Barnett Creek-Long King Creek, Alexander Creek-Long King Creek | Project Planning | 7.89 | Riverine | Seven Oaks | Seven Oaks | N | $100,000 | |
| 031000162 | San Jacinto County Drainage and Conveyance Capacity Improvements | Evaluate alternatives to improve drainage and conveyance capacity for Big Creek. | 03000029, 03000030 | San Jacinto | 12040103, 12030203, 12030202 | 120301020607, 120301020706, 120301020705 | West Carolina Creek-Lake Livingston, Palmetto Creek, Pools Creek-Lake Livingston, McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Huffman Creek-Trinity River, Little Creek-Big Creek, Big Creek-Trinity River, Nevill Bayou | Project Planning | 625.52 | Riverine | Shepherd, San Jacinto County | Shepherd, San Jacinto County | N | $250,000 | |
| 031000163 | Rock Creek Road Improvements | Evaluate alternatives to mitigate repetitive damages to Rocky Creek Rd sustained between 2015 - Present | 03000003, 03000004, 03000029, 03000030 | San Jacinto | 12040103, 12030202 | 120302021105, 120401030307 | Wolf Creek-Lake Livingston | Project Planning | 3.99 | Riverine | San Jacinto County, Shepherd | San Jacinto County, Shepherd | N | $100,000 | |
| 031000164 | Chipmunk Rd Culverts Replacement | Evaluate alternatives to replace Chipmunk Rd culverts with a bridge | 03000003, 03000004, 03000029, 03000030 | San Jacinto | 12030203, 12030202 | 120302030101, 120302021207 | Big Creek-Trinity River, Nevill Bayou | Project Planning | 3.72 | Riverine | San Jacinto County, Shepherd | San Jacinto County, Shepherd | N | $500,000 | |
| 031000165 | Comanche Drive Culvert and Retention Wall Construction Feasibility Assessment | Evaluate feasibility for building a larger culvert and retention wall for watershed over low crossing on Comanche Drive | 03000003, 03000004 | Tarrant | 12030102 | 120301020105, 120301020501, 120301020104, 120301020101 | West Fork Trinity River-Lake Worth, Live Oak Creek-West Fork Trinity River, Farmers Branch-West Fork Trinity River, Marine Creek-West Fork Trinity River | Project Planning | 9.85 | Riverine | Lake Worth | Lake Worth | N | $60,000 | |
| 031000166 | Aton Storm Drain System Updates | Improve drainage capabilities on the Aton Storm drain system. | 03000031, 03000032 | Tarrant | 12030102 | 120301020105, 120301020307 | Farmers Branch-West Fork Trinity River, Lake Como-Clear Fork Trinity River | Project Planning | 4.84 | Riverine | Westworth Village | Westworth Village | N | $200,000 | |
| 031000167 | Lower Hardisty Storm Drain Improvements | Evaluate alternatives for storm drain improvements | 03000031, 03000032 | Tarrant | 12030102 | 120301020504, 120301020506, 120301020704, 120301020505, 120301020503 | Little Bear Creek, Whites Branch-Big Fossil Creek, Sycamore Creek-West Fork Trinity River, Headwaters Walker Branch, Walker Branch-West Fork Trinity River | Project Planning | 14.76 | Riverine | Richland Hills | Richland Hills | N | $125,000 | |
| 031000168 | Big Bear Creek, Little Bear Creek, and Marshall Branch Stream Bank Erosion Study | Study to reduce stream bank erosion impacts along Big Bear Creek, Little Bear Creek, and Marshall Branch to improve drainage within the City of Keller | 03000031, 03000032 | Denton, Montague, Tarrant, Wise | 12030103, 12030104, 12030101, 12030102, 11130201 | 120301020504, 120301020506, 120301020704, 120301020505, 120301020503 | Little Bear Creek, Whites Branch-Big Fossil Creek, Sycamore Creek-West Fork Trinity River, Headwaters Walker Branch, Walker Branch-West Fork Trinity River | Project Planning | 734.68 | Riverine | Keller | Keller | N | $50,000 | |
| 031000169 | Calloway Branch Erosion Control Study | Evaluate erosion control measures in Calloway Branch to eliminate erosion of stream bank. | 03000031, 03000032 | Tarrant | 12030102 | 120301020506, 120301020704, 120301020505, 120301020701, 120301020503 | Little Bear Creek, Whites Branch-Big Fossil Creek, Headwaters Walker Branch, Walker Branch-West Fork Trinity River, Hurricane Creek-West Fork Trinity River | Project Planning | 27.51 | Riverine | Hurst | Hurst | N | $50,000 | |
| 031000170 | Mansfield Stream Stabilization Study | Evaluate alternatives to protect public infrastructure and private property from damages due to streambank erosion. Alternatives could include Saddlehorn/Walnut Creek sewer interceptor aerial crossing and Brookfield Hogpen sewer interceptor | 03000031, 03000032 | Tarrant | 12030102 | 120301020603, 120301020601, 120301020604, 120301020605, 120301020405 | Rush Creek-Village Creek, Headwaters Mountain Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Project Planning | 36.49 | Riverine | Mansfield | Mansfield | N | $182,000 | |
| 031000171 | Turkey Creek Trail Bridge | Evaluate alternatives to construct Bridge at Low-Water Crossing on Turkey Creek Trail. | 03000003, 03000004 | Wise | 12030101 | 120301010410, 120301010411 | Village Creek-West Fork Trinity River, Dry Creek-West Fork Trinity River | Project Planning | 4.94 | Riverine | Bridgeport | Bridgeport | N | $250,000 | |
| 031000172 | Turkey Creek Trail Rebuild | Evaluate alternatives to rebuild Turkey Creek Trail from 9th Street to State Highway 114. | 03000031, 03000032 | Wise | 12030101 | 120301010410, 120301010411 | Village Creek-West Fork Trinity River, Dry Creek-West Fork Trinity River | Project Planning | 4.94 | Riverine | Bridgeport | Bridgeport | N | $63,000 | |
| 031000173 | West Bridgeport Creek Channelization and Drainage Project | West Bridgeport Creek Channelization and Drainage Project Feasibility Assessment. | 03000031, 03000032 | Wise | 12030101 | 120301010404, 120301010405, 120301010410, 120301010411, 120301010602, 120301010408, 120301010409 | Venchoner Creek, Big Creek-Lake Bridgeport, Willow Creek, Lake Bridgeport, Village Creek-West Fork Trinity River, Dry Creek-West Fork Trinity River, Garrett Creek | Project Planning | 27.78 | Riverine | Bridgeport | Bridgeport | N | $150,000 | |
| 031000174 | North Weatherford St and Oakwood St Structure Improvements | Structure improvements assessment - North Weatherford St in front of fire station and Oakwood St between Granada and El Camino. | 03000031, 03000032 | Wise | 12030101 | 120301010404, 120301010410, 120301010411, 120301010508 | Venchoner Creek, Village Creek-West Fork Trinity River, Dry Creek-West Fork Trinity River, Pringle Creek-Big Sandy Creek | Project Planning | 5.84 | Riverine | Chico | Chico | N | $200,000 | |
| 031000175 | Hurstview Drive Bridge Improvement | Lorean watershed; $ Estimated construction cost of390,000 cost estimate; from 2013 study | 03000003, 03000004, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505 | Little Bear Creek, Headwaters Walker Branch | Project Planning | 4.27 | Riverine | Hurst | Hurst | N | $250,000 | |
| 031000176 | Regional Detention at Mayfair Park | Valley View watershed; $ Estimated construction cost of1,900,000 cost estimate; from 2017 study | 03000013, 03000014, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505 | Little Bear Creek, Headwaters Walker Branch | Project Planning | 3.30 | Riverine | Hurst | Hurst | N | $250,000 | |
| 031000177 | TRE & SH-10 Culvert Improvements | Valley View watershed; $ Estimated construction cost of750,000 cost estimate; from 2017 study | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020506, 120301020704, 120301020505, 120301020701, 120301020503 | Little Bear Creek, Whites Branch-Big Fossil Creek, Headwaters Walker Branch, Walker Branch-West Fork Trinity River, Hurricane Creek-West Fork Trinity River | Project Planning | 27.51 | Riverine | Hurst | Hurst | N | $250,000 | |
| 031000178 | Pipeline Road Bridge Improvement | Walker watershed; $ Estimated construction cost of1,700,000 cost estimate; from 2020 study | 03000031, 03000032 | Tarrant | 12030102 | 120301020506, 120301020704, 120301020505, 120301020701, 120301020503 | Little Bear Creek, Whites Branch-Big Fossil Creek, Headwaters Walker Branch, Walker Branch-West Fork Trinity River, Hurricane Creek-West Fork Trinity River | Project Planning | 27.51 | Riverine | Hurst | Hurst | N | $250,000 | |
| 031000179 | Redbud Drive Bridge Improvement | Walker watershed; $ Estimated construction cost of1,200,000 cost estimate; from 2020 study | 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505 | Little Bear Creek, Headwaters Walker Branch | Project Planning | 4.27 | Riverine | Hurst | Hurst | N | $250,000 | |
| 031000180 | Northeast Mall Culvert Improvement | Walker watershed; $ Estimated construction cost of11,600,000 cost estimate; from 2020 study | 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505 | Little Bear Creek, Headwaters Walker Branch | Project Planning | 5.17 | Riverine | Hurst | Hurst | N | $582,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000147 | FM 2114 Automated Flood Gate Feasibility Assessment | 3 | 2 | 0 | 0 | 0 | | 1.06 | 938.85 | | |
| 031000148 | Houston County dike for critical facilities | 21 | 8 | 36 | 10 | 45 | | 110.11 | 46,988.31 | | |
| 031000149 | Grapeland Critical Facilities Floodproofing Assessment | 14 | 13 | 8 | 0 | 0 | | 0.03 | 3.15 | | |
| 031000150 | Jack County WWTP and Lift Station Flood-Proofing. | 265 | 105 | 230 | 0 | 6 | | 54.58 | 32,105.58 | | |
| 031000151 | County Rd 125 Automatic Warning Barricade Installation | 76 | 58 | 56 | 0 | 1 | | 0.95 | 1,408.57 | | |
| 031000152 | City of Liberty WWTP Levee Study | 493 | 457 | 1,105 | 4 | 5 | | 33.57 | 3,323.37 | | |
| 031000153 | Liberty County Re-canalization | 8,682 | 8,049 | 12,221 | 72 | 21 | | 256.55 | 71,161.52 | | |
| 031000154 | Liberty County Culverts Upgrades | 0 | 0 | 0 | 0 | 0 | | 0.47 | 286.84 | | |
| 031000155 | County Rd 2331 Re-Routing | 15 | 9 | 4 | 0 | 0 | | 3.58 | 176.21 | | |
| 031000156 | "Aqueduct" Drainage System Replacement | 11 | 10 | 30 | 2 | 0 | | 1.76 | 13.20 | | |
| 031000157 | Polk County Road and Drainage Improvements | 3,485 | 3,119 | 5,167 | 38 | 18 | | 92.37 | 15,993.65 | | |
| 031000158 | Seven Oaks Drainage Ditches | 6 | 4 | 10 | 0 | 0 | | 0.63 | 551.82 | | |
| 031000159 | Old 35 Sover Sampson Creek Bridge Elevation | 46 | 37 | 27 | 1 | 1 | | 0.27 | 28.68 | | |
| 031000160 | Pennington Rd Culverts | 46 | 37 | 27 | 1 | 1 | | 0.27 | 28.68 | | |
| 031000161 | Seven Oaks Culvert Installation | 6 | 4 | 10 | 0 | 0 | | 0.63 | 551.82 | | |
| 031000162 | San Jacinto County Drainage and Conveyance Capacity Improvements | 2,637 | 2,505 | 3,161 | 19 | 1 | | 82.53 | 11,298.66 | | |
| 031000163 | Rock Creek Road Improvements | 32 | 31 | 39 | 0 | 0 | | 0.55 | 17.13 | | |
| 031000164 | Chipmunk Rd Culverts Replacement | 8 | 8 | 7 | 0 | 0 | | 0.35 | 150.49 | | |
| 031000165 | Comanche Drive Culvert and Retention Wall Construction Feasibility Assessment | 294 | 221 | 416 | 0 | 0 | | 4.31 | 63.09 | | |
| 031000166 | Aton Storm Drain System Updates | 643 | 630 | 1,707 | 2 | 1 | | 7.57 | 192.30 | | |
| 031000167 | Lower Hardisty Storm Drain Improvements | 933 | 825 | 4,781 | 7 | 30 | | 20.73 | 36.86 | | |
| 031000168 | Big Bear Creek, Little Bear Creek, and Marshall Branch Stream Bank Erosion Study | 1,369 | 1,133 | 8,089 | 31 | 98 | | 91.37 | 28,753.88 | | |
| 031000169 | Calloway Branch Erosion Control Study | 584 | 531 | 3,457 | 3 | 32 | | 21.56 | 335.16 | | |
| 031000170 | Mansfield Stream Stabilization Study | 422 | 385 | 2,492 | 4 | 15 | | 30.21 | 778.52 | | |
| 031000171 | Turkey Creek Trail Bridge | 0 | 0 | 0 | 1 | 1 | | 4.49 | 0.00 | | |
| 031000172 | Turkey Creek Trail Rebuild | 91 | 59 | 275 | 1 | 1 | | 4.49 | 167.78 | | |
| 031000173 | West Bridgeport Creek Channelization and Drainage Project | 121 | 79 | 308 | 2 | 2 | | 6.75 | 2,778.06 | | |
| 031000174 | North Weatherford St and Oakwood St Structure Improvements | 30 | 23 | 35 | 2 | 0 | | 1.81 | 303.36 | | |
| 031000175 | Hurstview Drive Bridge Improvement | 68 | 61 | 189 | 1 | 1 | | 2.84 | 15.72 | | |
| 031000176 | Regional Detention at Mayfair Park | 189 | 187 | 1,199 | 1 | 13 | | 5.23 | 9.02 | | |
| 031000177 | TRE & SH-10 Culvert Improvements | 584 | 531 | 3,457 | 3 | 32 | | 21.56 | 335.16 | | |
| 031000178 | Pipeline Road Bridge Improvement | 584 | 531 | 3,457 | 3 | 32 | | 21.56 | 335.16 | | |
| 031000179 | Redbud Drive Bridge Improvement | 68 | 61 | 189 | 1 | 1 | | 2.84 | 15.72 | | |
| 031000180 | Northeast Mall Culvert Improvement | 91 | 85 | 380 | 0 | 2 | | 2.37 | 7.66 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000181 | Grand Parkway Culvert Crossing | Evaluate alternatives to upsize cross-culverts to allow for developed flow | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Chambers | 12030203, 12040203 | 120402030105, 120302030307, 120402030106, 120402030200, 120302030306, 120302030304 | Lynchburg Canal-Old River, Lost River-Old River | Project Planning | 8.60 | Riverine | Mont Belvieu | Mont Belvieu | N | $100,000 | |
| 031000182 | Cherry Point Gully PER | Evaluate alternatives to construct a diversion channel; channel improvements upstream of diversion; construction of regional detention basins as alternative to diversion channel construction | 03000031, 03000032 | Chambers | 12030203, 12040203 | 120402030105, 120302030304, 120402030104 | Lynchburg Canal-Old River | Project Planning | 5.64 | Riverine | Mont Belvieu | Mont Belvieu | N | $100,000 | |
| 031000183 | Cotton Bayou PER | Evaluate alternatives to construct a diversion channel within irrigation canal ROW to drain to Old River; construction of detention basins to serve new development; linear detention through channel improvements; expansion of existing detention basins | 03000031, 03000032 | Chambers | 12030203, 12040203 | 120402030105, 120302030307, 120402030106, 120402030200, 120302030306, 120302030304 | Lynchburg Canal-Old River, Lost River-Old River | Project Planning | 24.54 | Riverine | Mont Belvieu | Mont Belvieu | N | $250,000 | |
| 031000184 | Belt Line Rd (FM1382) at Cottonwood Creek | Study update - Channel Improvements; Estimated construction cost of $4,502,500 | 03000031, 03000032 | Dallas, Tarrant | 12030102 | 120301020606, 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 12.51 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000185 | North Grand Prairie High School Pond Crossing | Study update - Gopher Creek 430 feet north of Small Hill St; channel improvements; Estimated construction cost of $159,500 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000186 | Belt Line Rd at Plattner Creek | Study update - Channel Improvements; Estimated construction cost of $435,500 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.62 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000187 | Small Hill St at Gopher Creek | Study update - Channel Improvements; Estimated construction cost of $307,700 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000188 | Carrier Parkway at Dalworth Creek | Study update - 190 feet southeast of Capetown; Channel Improvements; Estimated construction cost of $1,092,000 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 2.19 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000189 | East Tarrant Rd at Gopher Creek | Study update - Channel Improvements; Estimated construction cost of $381,300 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000190 | NE 5th St at Gopher Creek | Study update - Channel Improvements; Estimated construction cost of $390,200 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000191 | Grass-covered Culvert at Dalworth Creek | Study update - 520 feet west of Carrier Parkway; Channel Improvements; Estimated construction cost of $1,048,700 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 2.19 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000192 | High School Drive at Gopher Creek | Study update - Channel Improvements; Estimated construction cost of $402,400 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000193 | Duncan Perry Rd at Johnson Creek | Study update - Channel Improvements; Estimated construction cost of $5,374,200 | 03000031, 03000032 | Dallas, Tarrant | 12030102 | 120301020606, 120301020607, 120301020706, 120301020701, 120301020702, 120301020405 | Delaware Creek-West Fork Trinity River, Rush Creek-Village Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 20.95 | Riverine | Grand Prairie | Grand Prairie | N | $269,000 | |
| 031000194 | Great Southwest Parkway at Cottonwood Creek Bridge and Roadway Raising Improvements (Stream Station 104+64) | Study update - Channel Improvements; Estimated construction cost of $9,538,300 | 03000031, 03000032 | Dallas, Tarrant | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.59 | Riverine | Grand Prairie | Grand Prairie | N | $477,000 | |
| 031000195 | West Park Square Rd at Turner Branch | Study update - Channel Improvements; Estimated construction cost of $445,200 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000196 | Carrier Parkway at Cottonwood Creek and South Fork Cottonwood Creek - Bridges | Study update - Channel Improvements; Estimated construction cost of $18,164,400 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.59 | Riverine | Grand Prairie | Grand Prairie | N | $908,000 | |
| 031000197 | 3rd St at Cottonwood Creek and Cottonwood Creek from SW 3rd to FM 1382 | Study update - Channel Improvements; Estimated construction cost of $12,733,000 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 12.51 | Riverine | Grand Prairie | Grand Prairie | N | $637,000 | |
| 031000198 | FM 661 at Mountain Creek (Future with Development) | Study update - Channel Improvements; Estimated construction cost of $7,750,000 | 03000031, 03000032 | Dallas | 12030109, 12030102 | 120301020603, 120301090103, 120301090101, 120301020601, 120301020604, 120301090102, 120301020605, 120301020602 | Headwaters Mountain Creek, Soap Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Headwaters North Fork Chambers Creek, Upper North Fork Chambers Creek, Armstrong Creek-Cottonwood Creek | Project Planning | 49.59 | Riverine | Grand Prairie | Grand Prairie | N | $388,000 | |
| 031000199 | Green Hollow Drive North and South of Thornbush Drive | Study update - Storm Drain Improvements; Estimated construction cost of $247,000 | 03000031, 03000032 | Dallas | 12030102 | 120301020606 | Fish Creek-Mountain Creek Lake | Project Planning | 1.58 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000200 | Carrier Parkway & Egyptian Way | Study update - Storm Drain Improvements; Estimated construction cost of $3,165,300 | 03000031, 03000032 | Dallas, Tarrant | 12030102 | 120301020606, 120301020607, 120301020706, 120301020701, 120301020702, 120301020405 | Delaware Creek-West Fork Trinity River, Rush Creek-Village Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 20.95 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000201 | East Pioneer Parkway & SE 14th St | Study update - Storm Drain Improvements; Estimated construction cost of $3,742,700 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 5.20 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000202 | Great Southwest Parkway & Pinewood Drive | Study update - Storm Drain Improvements; Estimated construction cost of $3,998,200 | 03000031, 03000032 | Dallas, Tarrant | 12030102 | 120301020606, 120301020607, 120301020702 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 4.59 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000203 | Lake Park Drive and Victoria Drive | Study update - Storm Drain Improvements; Estimated construction cost of $1,094,100 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.62 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000204 | Regional Detention at Bowie Elementary School | Study update - Storm Drain Improvements; Estimated construction cost of $3,433,500 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.34 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000205 | Shady Grove Rd - Jones St Storm Drainage Improvements | Study update - Storm Drain Improvements; Estimated construction cost of $1,679,200 | 03000007, 036000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030102 | 120301020701, 120301020705 | Estelle Creek-Bear Creek, Hurricane Creek-West Fork Trinity River | Project Planning | 3.14 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000206 | Duncan Perry Rd, Heritage Court and Goodwin Branch | Study update - Storm Drain Improvements; Estimated construction cost of $1,175,300 | 03000007, 036000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706, 120301020701, 120301020702, 120301020405 | Delaware Creek-West Fork Trinity River, Rush Creek-Village Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 20.95 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000207 | Thousand Oaks Court | Study update - Storm Drain Improvements; Estimated construction cost of $742,700 | 03000031, 03000032 | Dallas | 12030103, 12030102 | 120301031006, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Branch-Hackberry Creek | Project Planning | 3.21 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000208 | East Marshall Drive, Santa Cruz Circle & Belt Line Rd | Study update - Storm Drain Improvements; Estimated construction cost of $1,753,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.62 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000209 | East Main St & NE 14th St | Study update - Storm Drain Improvements; Estimated construction cost of $5,879,400 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $294,000 | |
| 031000210 | Marshall Drive from Emerald to SW 3rd | Study update - Storm Drain Improvements; Estimated construction cost of $3,603,100 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.34 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000211 | Varsity Drive and Christy St from Varsity to Mountain Creek Lake | Study update - Storm Drain Improvements; Estimated construction cost of $4,768,500 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 7.82 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000212 | SE 10th Street and Avion Parkway from Perman South to Culvert Crossing | Study update - Storm Drain Improvements; Estimated construction cost of $1,158,400 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.34 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000213 | SW 3rd Street from Dorris North to Concrete Channel | Study update - Storm Drain Improvements; Estimated construction cost of $4,024,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.62 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000181 | Grand Parkway Culvert Crossing | 209 | 191 | 358 | 3 | 0 | | 4.00 | 741.75 | | |
| 031000182 | Cherry Point Gully PER | 252 | 227 | 557 | 1 | 0 | | 4.01 | 755.35 | | |
| 031000183 | Cotton Bayou PER | 645 | 566 | 3,070 | 13 | 2 | | 14.45 | 749.46 | | |
| 031000184 | Belt Line Rd (FM1382) at Cottonwood Creek | 122 | 113 | 890 | 1 | 12 | | 5.98 | 32.32 | | |
| 031000185 | North Grand Prairie High School Pond Crossing | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000186 | Belt Line Rd at Plattner Creek | 4 | 4 | 23 | 0 | 1 | | 0.11 | 3.17 | | |
| 031000187 | Small Hill St at Gopher Creek | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000188 | Carrier Parkway at Dalworth Creek | 30 | 29 | 112 | 0 | 5 | | 0.96 | 10.40 | | |
| 031000189 | East Tarrant Rd at Gopher Creek | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000190 | NE 5th St at Gopher Creek | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000191 | Grass-covered Culvert at Dalworth Creek | 30 | 29 | 112 | 0 | 5 | | 0.96 | 10.40 | | |
| 031000192 | High School Drive at Gopher Creek | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000193 | Duncan Perry Rd at Johnson Creek | 405 | 360 | 4,090 | 7 | 24 | | 12.71 | 50.49 | | |
| 031000194 | Great Southwest Parkway at Cottonwood Creek Bridge and Roadway Raising Improvements (Stream Station 104+64) | 61 | 60 | 350 | 1 | 5 | | 2.73 | 16.43 | | |
| 031000195 | West Park Square Rd at Turner Branch | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000196 | Carrier Parkway at Cottonwood Creek and South Fork Cottonwood Creek - Bridges | 61 | 60 | 350 | 1 | 5 | | 2.73 | 16.43 | | |
| 031000197 | 3rd St at Cottonwood Creek and Cottonwood Creek from SW 3rd to FM 1382 | 122 | 113 | 890 | 1 | 12 | | 5.98 | 32.32 | | |
| 031000198 | FM 661 at Mountain Creek (Future with Development) | 224 | 185 | 451 | 3 | 54 | | 7.16 | 3,239.75 | | |
| 031000199 | Green Hollow Drive North and South of Thornbush Drive | 19 | 18 | 302 | 0 | 1 | | 0.78 | 19.68 | | |
| 031000200 | Carrier Parkway & Egyptian Way | 405 | 360 | 4,090 | 7 | 24 | | 12.71 | 50.49 | | |
| 031000201 | East Pioneer Parkway & SE 14th St | 3 | 3 | 0 | 0 | 1 | | 0.54 | 27.62 | | |
| 031000202 | Great Southwest Parkway & Pinewood Drive | 19 | 17 | 107 | 0 | 5 | | 2.11 | 7.95 | | |
| 031000203 | Lake Park Drive and Victoria Drive | 4 | 4 | 23 | 0 | 1 | | 0.11 | 3.17 | | |
| 031000204 | Regional Detention at Bowie Elementary School | 42 | 36 | 433 | 0 | 2 | | 1.14 | 7.94 | | |
| 031000205 | Shady Grove Rd - Jones St Storm Drainage Improvements | 140 | 133 | 1,761 | 0 | 0 | | 4.85 | 168.96 | | |
| 031000206 | Duncan Perry Rd, Heritage Court and Goodwin Branch | 405 | 360 | 4,090 | 7 | 24 | | 12.71 | 50.49 | | |
| 031000207 | Thousand Oaks Court | 75 | 73 | 1,003 | 2 | 4 | | 1.25 | 1.24 | | |
| 031000208 | East Marshall Drive, Santa Cruz Circle & Belt Line Rd | 4 | 4 | 23 | 0 | 1 | | 0.11 | 3.17 | | |
| 031000209 | East Main St & NE 14th St | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000210 | Marshall Drive from Emerald to SW 3rd | 42 | 36 | 433 | 0 | 2 | | 1.14 | 7.94 | | |
| 031000211 | Varsity Drive and Christy St from Varsity to Mountain Creek Lake | 7 | 7 | 23 | 0 | 2 | | 0.65 | 30.79 | | |
| 031000212 | SE 10th Street and Avion Parkway from Perman South to Culvert Crossing | 42 | 36 | 433 | 0 | 2 | | 1.14 | 7.94 | | |
| 031000213 | SW 3rd Street from Dorris North to Concrete Channel | 4 | 4 | 23 | 0 | 1 | | 0.11 | 3.17 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000214 | Bowles St & Hensley Drive | Study update - Storm Drain Improvements; Estimated construction cost of $1,295,700 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.77 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000215 | Manana Channel Improvements | Study update - Storm Drain Improvements; Estimated construction cost of $967,600 | 03000031, 03000032 | Dallas | 12030103, 12030102 | 120301031006, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Branch-Hackberry Creek | Project Planning | 3.21 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000216 | South of Bardin Rd and North of Newberry St | Study update - Storm Drain Improvements; Estimated construction cost of $2,007,600 | 03000031, 03000032 | Dallas | 12030102 | 120301020606 | Fish Creek-Mountain Creek Lake | Project Planning | 4.81 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000217 | Cherokee Trace and Choctaw Trace to Clarice | Study update - Storm Drain Improvements; Estimated construction cost of $2,715,600 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.34 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000218 | Gilbert Rd Drainage Improvements | Study update - Storm Drain Improvements; Estimated construction cost of $5,825,500 | 03000031, 03000032 | Dallas | 12030103, 12030102 | 120301031006, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Branch-Hackberry Creek | Project Planning | 3.21 | Riverine | Grand Prairie | Grand Prairie | N | $291,000 | |
| 031000219 | 27th Street and Graham Street from Rinehart to Channel | Study update - Storm Drain Improvements; Estimated construction cost of $1,419,800 | 03000031, 03000032 | Dallas | 12030102, 12030105 | 120301050102, 120301020706 | Delaware Creek-West Fork Trinity River, Coombs Creek-Trinity River | Project Planning | 1.61 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000220 | East Marshall Drive & Avenue C, East Coral & SE 14th Street and in SE 14th Street & Bogarte Drive | Study update - Storm Drain Improvements; Estimated construction cost of $6,399,100 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 5.20 | Riverine | Grand Prairie | Grand Prairie | N | $320,000 | |
| 031000221 | Lakeview Drive & SE 14th Street | Study update - Storm Drain Improvements; Estimated construction cost of $3,570,700 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 5.20 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000222 | WE Roberts St & SW 16th St | Study update - Storm Drain Improvements; Estimated construction cost of $1,625,900 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.59 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000223 | Jelmak Rd - Hardrock Rd | Study update - Storm Drain Improvements; Estimated construction cost of $5,095,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020701, 120301020705 | Estelle Creek-Bear Creek, Hurricane Creek-West Fork Trinity River | Project Planning | 3.14 | Riverine | Grand Prairie | Grand Prairie | N | $255,000 | |
| 031000224 | Shady Grove Rd, Gilbert Rd, Wright Blvd | Study update - Storm Drain Improvements; Estimated construction cost of $2,860,900 | 03000031, 03000032 | Dallas | 12030103, 12030102 | 120301031006, 120301020706, 120301020701, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Hurricane Creek-West Fork Trinity River, Cottonwood Branch-Hackberry Creek | Project Planning | 6.35 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000225 | Parker Rd - Hardrock Rd | Study update - Storm Drain Improvements; Estimated construction cost of $5,760,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020706, 120301020701, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Hurricane Creek-West Fork Trinity River | Project Planning | 5.23 | Riverine | Grand Prairie | Grand Prairie | N | $288,000 | |
| 031000226 | North Carrier Parkway & Main St to Dalworth Creek Channel | Study update - Storm Drain Improvements; Estimated construction cost of $8,803,700 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 2.19 | Riverine | Grand Prairie | Grand Prairie | N | $440,000 | |
| 031000227 | Pioneer Parkway from Brady to Plattner Creek (TXDOT) | Study update - Storm Drain Improvements; Estimated construction cost of $9,511,900 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.62 | Riverine | Grand Prairie | Grand Prairie | N | $476,000 | |
| 031000228 | NW 24th St & NW 23rd St from West Main to Ditch Near Dalworth St and Doreen St | Study update - Storm Drain Improvements; Estimated construction cost of $5,982,600 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 2.19 | Riverine | Grand Prairie | Grand Prairie | N | $299,000 | |
| 031000229 | Detention Basin at St. Michael's Church Vacant Property and Relief Storm Drains in Corn Valley Rd and Neighboring Streets from Santa Anna to Kirby Creek Channel | Study update - Storm Drain Improvements; Estimated construction cost of $18,766,400 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 11.65 | Riverine | Grand Prairie | Grand Prairie | N | $938,000 | |
| 031000230 | River Ridge Boulevard | Study update - Storm Drain Improvements; Estimated construction cost of $6,148,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020706, 120301020701, 120301020702, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 7.92 | Riverine | Grand Prairie | Grand Prairie | N | $307,000 | |
| 031000231 | East Grand Prairie Rd & 14th Street from Austin to Ditch South of Skyline | Study update - Storm Drain Improvements; Estimated construction cost of $8,549,300 | 03000009, 03000010, 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 5.20 | Riverine | Grand Prairie | Grand Prairie | N | $427,000 | |
| 031000232 | Shady Grove Rd | Study update - Storm Drain Improvements; Estimated construction cost of $6,737,200 | 03000009, 03000010, 03000031, 03000032 | Dallas | 12030102 | 120301020706, 120301020701, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Hurricane Creek-West Fork Trinity River | Project Planning | 5.23 | Riverine | Grand Prairie | Grand Prairie | N | $337,000 | |
| 031000233 | Various Streets and Alleys from Dallas Street West of NW 20th Street to Ditch Just South of WE Roberts Street | Study update - Storm Drain Improvements; Estimated construction cost of $10,656,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.59 | Riverine | Grand Prairie | Grand Prairie | N | $533,000 | |
| 031000234 | South Great Southwest Parkway from Warrior to Kirby Creek Concrete Channel North of Mayfield | Study update - Storm Drain Improvements; Estimated construction cost of $1,411,100 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000235 | South Great Southwest Parkway from North of Forum Drive to Prairie Creek Channel | Study update - Storm Drain Improvements; Estimated construction cost of $2,127,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020702 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.76 | Riverine | Grand Prairie | Grand Prairie | N | $344,000 | |
| 031000236 | South Great Southwest Parkway from Sherman to Cottonwood Creek | Study update - Storm Drain Improvements; Estimated construction cost of $6,881,500 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.59 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000237 | Arbor Creek Pedestrian Bridge Repair and Channel Bottom Stabilization | 270 feet south of Johnson Creek and 290 feet east of SH 161; Estimated construction cost of $270,900 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706, 120301020701, 120301020702, 120301020405 | Delaware Creek-West Fork Trinity River, Rush Creek-Village Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 21.14 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000238 | Gopher Creek Stream Bottom Stabilization | downstream of NE 5th Street; between High School Drive and NE 5th Street; downstream of Belt Line Road; Estimated construction cost of $65,600 (?) + Estimated construction cost of $127,300; downstream of High School Drive; Estimated construction cost of $70,500 | 03000027, 03000028, 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000239 | Turner Branch Stream Bottom Stabilization | 380 feet south of Small Hill Street to 450 feet north of East Tarrant Road; Estimated construction cost of $187,200 (?) | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 3.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000240 | Arbor Creek Channel Bottom Stabilization | Channelization, Stabilization, and Bank Armoring from SH 161 East to Johnson Creek Confluence; Estimated construction cost of $2,096,900; from Duncan Perry to SH 161; Estimated construction cost of $991,600 | 03000027, 03000028, 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706, 120301020701, 120301020702, 120301020405 | Delaware Creek-West Fork Trinity River, Rush Creek-Village Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 20.95 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000241 | North Fork of Cottonwood Creek Stabilization | from Great Southwest to Carrier; Estimated construction cost of $214,900 | 03000027, 03000028, 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.59 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000242 | Kirby Creek Channel Lining Replacements | from 800 feet east of Great Southwest to West of Waterwood; just north of Kildeer cul-de-sac and from Waterwood East to End of Channel Lining just east of Greenvista; Estimated construction cost of $1,267,200 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.84 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000243 | Dry Branch Stream Bottom Stabilization | 300 feet south of Rock Island (2 locations); Estimated construction cost of $91,300 | 03000027, 03000028, 03000031, 03000032 | Dallas | 12030103, 12030102 | 120301031006, 120301020706, 120301020705 | Estelle Creek-Bear Creek, Delaware Creek-West Fork Trinity River, Cottonwood Branch-Hackberry Creek | Project Planning | 3.21 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000244 | Johnson Creek Avenue J Stabilization | Bridge abutment repair and channel bank stabilization; Estimated construction cost of $168,500 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706, 120301020701, 120301020702, 120301020405 | Delaware Creek-West Fork Trinity River, Rush Creek-Village Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 20.95 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000245 | Garden Branch Stabilization | Channel bottom stabilization from Camp Wisdom to Great Southwest; Estimated construction cost of $176,100 | 03000027, 03000028, 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020605 | Lynn Creek-Walnut Creek, Fish Creek-Mountain Creek Lake | Project Planning | 7.29 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000246 | Warrior Creek Stabilization | From Great Southwest to South Fork Cottonwood Creek; Estimated construction cost of $518,500 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 10.18 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000214 | Bowles St & Hensley Drive | 5 | 5 | 0 | 0 | 0 | | 0.99 | 9.62 | | |
| 031000215 | Manana Channel Improvements | 75 | 73 | 1,003 | 2 | 4 | | 1.25 | 1.24 | | |
| 031000216 | South of Bardin Rd and North of Newberry St | 22 | 21 | 314 | 0 | 1 | | 1.32 | 26.93 | | |
| 031000217 | Cherokee Trace and Choctaw Trace to Clarice | 42 | 36 | 433 | 0 | 2 | | 1.14 | 7.94 | | |
| 031000218 | Gilbert Rd Drainage Improvements | 75 | 73 | 1,003 | 2 | 4 | | 1.25 | 1.24 | | |
| 031000219 | 27th Street and Graham Street from Rinehart to Channel | 37 | 2 | 102 | 5 | 0 | | 0.62 | 144.29 | | |
| 031000220 | East Marshall Drive & Avenue C, East Coral & SE 14th Street and in SE 14th Street & Bogarte Drive | 3 | 3 | 0 | 0 | 1 | | 0.54 | 27.62 | | |
| 031000221 | Lakeview Drive & SE 14th Street | 3 | 3 | 0 | 0 | 1 | | 0.54 | 27.62 | | |
| 031000222 | WE Roberts St & SW 16th St | 61 | 60 | 350 | 1 | 5 | | 2.73 | 16.43 | | |
| 031000223 | Jelmak Rd - Hardrock Rd | 140 | 133 | 1,761 | 0 | 0 | | 4.85 | 168.96 | | |
| 031000224 | Shady Grove Rd, Gilbert Rd, Wright Blvd | 215 | 206 | 2,764 | 2 | 4 | | 6.09 | 170.20 | | |
| 031000225 | Parker Rd - Hardrock Rd | 165 | 156 | 2,782 | 0 | 0 | | 5.65 | 265.26 | | |
| 031000226 | North Carrier Parkway & Main St to Dalworth Creek Channel | 30 | 29 | 112 | 0 | 5 | | 0.96 | 10.40 | | |
| 031000227 | Pioneer Parkway from Brady to Plattner Creek (TXDOT) | 4 | 4 | 23 | 0 | 1 | | 0.11 | 3.17 | | |
| 031000228 | NW 24th St & NW 23rd St from West Main to Ditch Near Dalworth St and Doreen St | 30 | 29 | 112 | 0 | 5 | | 0.96 | 10.40 | | |
| 031000229 | Detention Basin at St. Michael's Church Vacant Property and Relief Storm Drains in Corn Valley Rd and Neighboring Streets from Santa Anna to Kirby Creek Channel | 10 | 8 | 27 | 0 | 4 | | 1.21 | 61.32 | | |
| 031000230 | River Ridge Boulevard | 32 | 19 | 599 | 0 | 4 | | 6.28 | 197.25 | | |
| 031000231 | East Grand Prairie Rd & 14th Street from Austin to Ditch South of Skyline | 3 | 3 | 0 | 0 | 1 | | 0.54 | 27.62 | | |
| 031000232 | Shady Grove Rd | 165 | 156 | 2,782 | 0 | 0 | | 5.65 | 265.26 | | |
| 031000233 | Various Streets and Alleys from Dallas Street West of NW 20th Street to Ditch Just South of WE Roberts Street | 61 | 60 | 350 | 1 | 5 | | 2.73 | 16.43 | | |
| 031000234 | South Great Southwest Parkway from Warrior to Kirby Creek Concrete Channel North of Mayfield | 1 | 0 | 0 | 0 | 2 | | 0.19 | 7.38 | | |
| 031000235 | South Great Southwest Parkway from North of Forum Drive to Prairie Creek Channel | 25 | 22 | 421 | 0 | 1 | | 3.89 | 7.83 | | |
| 031000236 | South Great Southwest Parkway from Sherman to Cottonwood Creek | 61 | 60 | 350 | 1 | 5 | | 2.73 | 16.43 | | |
| 031000237 | Arbor Creek Pedestrian Bridge Repair and Channel Bottom Stabilization | 405 | 360 | 4,090 | 7 | 24 | | 12.72 | 56.07 | | |
| 031000238 | Gopher Creek Stream Bottom Stabilization | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000239 | Turner Branch Stream Bottom Stabilization | 18 | 7 | 1,107 | 0 | 0 | | 3.37 | 160.73 | | |
| 031000240 | Arbor Creek Channel Bottom Stabilization | 405 | 360 | 4,090 | 7 | 24 | | 12.71 | 50.49 | | |
| 031000241 | North Fork of Cottonwood Creek Stabilization | 61 | 60 | 350 | 1 | 5 | | 2.73 | 16.43 | | |
| 031000242 | Kirby Creek Channel Lining Replacements | 1 | 0 | 0 | 0 | 2 | | 0.19 | 7.38 | | |
| 031000243 | Dry Branch Stream Bottom Stabilization | 75 | 73 | 1,003 | 2 | 4 | | 1.25 | 1.24 | | |
| 031000244 | Johnson Creek Avenue J Stabilization | 405 | 360 | 4,090 | 7 | 24 | | 12.71 | 50.49 | | |
| 031000245 | Garden Branch Stabilization | 42 | 39 | 332 | 0 | 2 | | 2.26 | 48.45 | | |
| 031000246 | Warrior Creek Stabilization | 80 | 77 | 457 | 1 | 10 | | 4.84 | 24.38 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000247 | Dalworth Creek Stabilization | Repair of gabions and protection of wastewater crossing downstream of I-30; Estimated construction cost of $402,000; from Dalworth Street to Roman; Estimated construction cost of $278,900 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706, 120301020702 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 2.19 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000248 | South Fork Cottonwood Creek | from Great Southwest to Carrier; Estimated construction cost of $781,200 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020702 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 4.59 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000249 | Willis Branch Stabilization | Dam removal and south channel bank stabilization just west of Devon cul-de-sac; Estimated construction cost of $48,600; from Great Southwest to Sheffield; Estimated construction cost of $200,700 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020605 | Lynn Creek-Walnut Creek, Fish Creek-Mountain Creek Lake | Project Planning | 7.29 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000250 | Johnson Creek Stabilization | Replacement of failed inline channel structure 500 feet east of SH 161 and channel sediment removal; Estimated construction cost of $1,979,000; south channel bank stabilization north of Babbling Brook from Quest to Shadow Pass; Estimated construction cost of $831,700; north channel bank stabilization north of North | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020706, 120301020701, 120301020702, 120301020405 | Delaware Creek-West Fork Trinity River, Rush Creek-Village Creek, Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Hurricane Creek-West Fork Trinity River, Johnson Creek | Project Planning | 20.95 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000251 | Henry Branch Stream Stabilization | from apartments at 1000 South Belt Line to Grand Prairie Road; Estimated construction cost of $127,900 | 03000031, 03000032 | Dallas | 12030102 | 120301020607, 120301020706 | Delaware Creek-West Fork Trinity River, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.34 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000252 | Plattner Creek Stabilization | from FM 1382 to City Limits of Dallas, west of SE 14th; Estimated construction cost of $252,900 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Project Planning | 2.62 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000253 | Prairie Creek Stabilization | from upstream of Great Southwest Pkwy to upstream of Robinson Road; Estimated construction cost of $606,900 | 03000031, 03000032 | Dallas | 12030102 | 120301020606, 120301020607, 120301020702 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake, Johnson Creek | Project Planning | 5.76 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000254 | Stuart Branch Stabilization | from 460 feet north of Sanctuary Drive and 350 feet northeast of Nature Court cul-de-sac to Joe Pool Lake (future with development); Estimated construction cost of $349,700 | 03000031, 03000032 | Dallas | 12030109, 12030102, 12030105 | 120301020603, 120301050301, 120301090301 | Low Branch-Mountain Creek, Headwaters Red Oak Creek, Headwaters Waxahachie Creek | Project Planning | 6.21 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000255 | Swadley Branch Stabilization | from 2200 feet south of Koscher Drive to Joe Pool Lake (future with development); Estimated construction cost of $286,800 | 03000031, 03000032 | Dallas | 12030102 | 120301020603, 120301020605 | Low Branch-Mountain Creek, Lynn Creek-Walnut Creek | Project Planning | 3.60 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000256 | Mills Branch Stabilization | from 880 feet south of South Periwinkle Court cul-de-sac to Joe Pool Lake (future with development); Estimated construction cost of $599,300 | 03000031, 03000032 | Dallas | 12030102 | 120301020603, 120301020605 | Low Branch-Mountain Creek, Lynn Creek-Walnut Creek | Project Planning | 3.60 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000257 | Tarrell Creek Stabilization | from a Stream Point 2420 feet south of South Periwinkle Court cul-de-sac and 800 feet east of South Periwinkle Court cul-de-sac to Joe Pool Lake (future with development); Estimated construction cost of $747,200 | 03000031, 03000032 | Dallas | 12030102 | 120301020603, 120301020605 | Low Branch-Mountain Creek, Lynn Creek-Walnut Creek | Project Planning | 3.60 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 031000258 | Jackson Meadows Pond Erosion Control | Erosion control measures around three pond headwalls to decrease flow velocity. | 03000031, 03000032 | Collin, Dallas | 12030106 | 120301060408, 120301060403 | Muddy Creek-Lake Ray Hubbard, Rowlett Creek-Lake Ray Hubbard | Project Planning | 6.05 | Riverine | Sachse | Sachse | N | $100,000 | |
| 031000259 | Long Branch Channel Improvements (Dewitt to Ingram) | Channel improvements to replace a failed headwall and reduce erosive velocities. Sewer line relocation to protect against potential failure due to erosion. | 03000031, 03000032 | Collin, Dallas | 12030106 | 120301060408, 120301060403 | Muddy Creek-Lake Ray Hubbard, Rowlett Creek-Lake Ray Hubbard | Project Planning | 6.05 | Riverine | Sachse | Sachse | N | $100,000 | |
| 031000260 | North Colony Blvd. at Powers Street | Streams SC-1A Drainage Study and storm drain upgrades to deal with flooding | 03000005, 03000006, 03000007, 03000008, 03000009, 03000010 | Denton | 12030103 | 120301030906, 120301031003 | Stewart Creek-Lewisville Lake, Indian Creek-Elm Fork Trinity River | Project Planning | 2.95 | Riverine | The Colony | The Colony | N | $100,000 | |
| 031000261 | Office Creek Drainage Study | Update Drainage Study and Improvements at Five Star Park | 03000005, 03000006, 03000007, 03000008, 03000009, 03000010 | Denton | 12030103 | 120301030906, 120301031003, 120301031001 | Stewart Creek-Lewisville Lake, Prairie Creek-Elm Fork Trinity River, Indian Creek-Elm Fork Trinity River | Project Planning | 2.48 | Riverine | The Colony | The Colony | N | $100,000 | |
| 031000262 | Bill Allen Park Erosion Study | Evaluate erosion control measures at Blair Oaks Drive to Good Shepherd Lutheran Church. | 03000031, 03000032 | Denton | 12030103 | 120301030906, 120301031003, 120301031001 | Stewart Creek-Lewisville Lake, Prairie Creek-Elm Fork Trinity River, Indian Creek-Elm Fork Trinity River | Project Planning | 5.29 | Riverine | The Colony | The Colony | N | $100,000 | |
| 031000263 | Johnson County Low Water Crossings - East Side | Hydraulic evaluation to determine how to reduce flooding risk at multiple low water crossings. | 03000003, 03000004, 03000009, 03000010 | Johnson | 12030109, 12060201, 12030102, 12060202 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 730.85 | Riverine | Johnson County | Johnson County | N | $250,000 | |
| 031000264 | Johnson County Low Water Crossings - West Side | Hydraulic evaluation to determine how to reduce flooding risk at multiple low water crossings. | 03000003, 03000004, 03000009, 03000010 | Johnson | 12030109, 12060201, 12030102, 12060202 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 730.85 | Riverine | Johnson County | Johnson County | N | $250,000 | |
| 031000265 | Tributary SB-1: Circle Lane Culvert Improvements | Evaluate and define necessary culvert improvements. | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 4.51 | Riverine | Bedford | Bedford | N | $150,000 | |
| 031000266 | Tributary SB-1: Shirley Way Culvert Improvements | Evaluate and define necessary culvert improvements. | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 4.51 | Riverine | Bedford | Bedford | N | $150,000 | |
| 031000267 | Tributary SB-1: Briar Drive Culvert Improvements | Evaluate and define necessary culvert improvements. | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 4.51 | Riverine | Bedford | Bedford | N | $150,000 | |
| 031000268 | Tributary SB-1: Schumac Lane Culvert Improvements | Evaluate and define necessary culvert improvements. | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 10.58 | Riverine | Bedford | Bedford | N | $150,000 | |
| 031000269 | Tributary SB-1: Donna Lane Culvert Improvements | Evaluate and define necessary culvert improvements. | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 4.51 | Riverine | Bedford | Bedford | N | $150,000 | |
| 031000270 | Sulphur Branch: Circle Lane Culvert Improvements | Evaluate and define necessary culvert improvements. | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 4.51 | Riverine | Bedford | Bedford | N | $150,000 | |
| 031000271 | Sulphur Branch: Bedford Road Culvert Improvements | Evaluate and define necessary culvert improvements. | 03000003, 03000004, 03000009, 03000010, 03000031, 03000032 | Tarrant | 12030102 | 120301020704, 120301020505, 120301020701 | Little Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Project Planning | 4.51 | Riverine | Bedford | Bedford | N | $150,000 | |
| 031000272 | Fairfield South Bateman Drainage Study | Fairfield South Bateman Drainage Study | 03000005, 03000006 | Freestone | 12030201 | 120302010109, 120302010107, 120302010601 | Pin Oak Creek-Cottonwood Creek, Big Brown Creek, Mims Creek-Upper Keechi Creek | Project Planning | 8.85 | Riverine | Fairfield | Fairfield | N | $200,000 | |
| 031000273 | City of Plano DMP | Evaluate alternatives for citywide drainage improvements for areas with history of flooding. | 03000031, 03000032 | Collin | 12030106, 12030103, 12030105 | 120301060404, 120301060406, 120301030906, 120301060407, 120301031003, 120301050104, 120301060403, 120301060405, 120301050103 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Watershed Planning | 71.84 | Riverine | Plano | Plano | N | $250,000 | |
| 031000274 | Collin County flooding hazard/vulnerability assessment | Conduct a hazard/vulnerability assessment for personal properties and structures located in the floodplain. | 03000013, 03000014 | Collin | 12030106, 12030103, 12030105, 12010001 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Preparedness | 883.19 | Riverine | Collin County | Collin County | N | $500,000 | |
| 031000275 | Houston County Lake Dam Emergency Action Plan | Develop Emergency Action Plan for Houston County Lake Dam | 03000001, 03000002 | Houston | 12020002, 12030201, 12020001, 12030202 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Preparedness | 1,231.75 | Riverine | Houston County | Houston County | N | $1,000,000 | |
| 031000276 | Grayson County Dams Compliance Assessment | Determine owners of all high and significant hazard dams and obtain copies of all EAPs. Obtain available dam failure impact data necessary for determining most appropriate mitigation approach that would achieve compliance with the State's TCEQ regulations | 03000001, 0300002, 03000029, 03000030, 03000039, 03000040 | Grayson | 12030106, 11140101, 12030103, 11130210 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Preparedness | 976.48 | Riverine | Grayson County | Grayson County | N | $1,000,000 | |
| 031000277 | Denton County USDA (NRCS) Dam Studies and Rehabilitation | USDA (NRCS) Dam Studies and Rehabilitation | 03000009, 03000010, 03000029, 03000030 | Denton | 12030103, 12030104, 12030105 | 120301020606, 120301020607 | Fish Creek-Mountain Creek Lake, Cottonwood Creek-Mountain Creek Lake | Other | 948.44 | Riverine | Denton County | Denton County | N | $2,000,000 | |
| 031000278 | Spring Creek Retaining Walls | Implement results from the 2021 Spring Creek Erosion and Retaining Wall Assessment project. This project identified 19 locations with recommended repairs/maintenance to erosion structures. | 03000009, 03000010, 03000031, 03000032 | Dallas | 12030106, 12030105 | 120301060404, 120301060406, 120301060407, 120301060408, 120301050104, 120301060501, 120301050103 | Headwaters White Rock Creek, Floyd Branch-White Rock Creek, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 36.42 | Riverine | Garland | Garland | N | $250,000 | |
| 031000279 | Colonel Palm Valley Drainage Improvements | Implement results from the Colonel Drive Drainage Study. This study identified mitigation options in Coloneal Drive and Palm Valley Drive. | 03000013, 03000014, 03000031, 03000032 | Dallas | 12030106 | 120301060409, 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 5.98 | Riverine | Garland | Garland | N | $150,000 | |
| 031000280 | Ashville Drive Drainage Improvements | Implement results from the Ashville Drainage Study. This study identified recommended mitigation options that can provide 100-year protection and minimal improvements for greater frequency storm events. | 03000013, 03000014, 03000031, 03000032 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 6.47 | Riverine | Garland | Garland | N | $150,000 | |
| 031000281 | Freeman Heights Drainage Improvements | Implement results from the Garland-Freeman Height Drainage Study. This study identified improvement projects for the storm sewer. | 03000013, 03000014, 03000031, 03000032 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 4.68 | Riverine | Garland | Garland | N | $150,000 | |
| 031000282 | Tobin trail Drainage Analysis | Implement results from the Tobin Trail Drainage Study. This study identified mitigation options to determine what solutions can be provided to eliminate or reduce flooding that occurs in Tobin Trail. | 03000013, 03000014, 03000031, 03000032 | Dallas | 12030106 | 120301060408, 120301060501 | Rowlett Creek-Lake Ray Hubbard, Duck Creek | Project Planning | 6.47 | Riverine | Garland | Garland | N | $150,000 | |
| 031000283 | Whites Bayou/Spring Branch Flood Study | Flood study north of I-10 through Hankamer | 03000007, 03000008, 03000009, 03000010 | Chambers | 12030203, 12040202 | 120302030202, 120302030204, 120402020100 | Turtle Bayou | Watershed Planning | 14.78 | Riverine | Chambers County | Chambers County | N | $458,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000247 | Dalworth Creek Stabilization | 30 | 29 | 112 | 0 | 5 | | 0.96 | 10.40 | | |
| 031000248 | South Fork Cottonwood Creek | 19 | 17 | 107 | 0 | 5 | | 2.11 | 7.95 | | |
| 031000249 | Willis Branch Stabilization | 42 | 39 | 332 | 0 | 2 | | 2.26 | 48.45 | | |
| 031000250 | Johnson Creek Stabilization | 405 | 360 | 4,090 | 7 | 24 | | 12.71 | 50.49 | | |
| 031000251 | Henry Branch Stream Stabilization | 42 | 36 | 433 | 0 | 2 | | 1.14 | 7.94 | | |
| 031000252 | Plattner Creek Stabilization | 4 | 4 | 23 | 0 | 1 | | 0.11 | 3.17 | | |
| 031000253 | Prairie Creek Stabilization | 25 | 22 | 421 | 0 | 1 | | 3.89 | 7.83 | | |
| 031000254 | Stuart Branch Stabilization | 9 | 7 | 27 | 0 | 0 | | 0.57 | 20.52 | | |
| 031000255 | Swadley Branch Stabilization | 3 | 2 | 4 | 1 | 0 | | 0.03 | 123.61 | | |
| 031000256 | Mills Branch Stabilization | 3 | 2 | 4 | 1 | 0 | | 0.03 | 123.61 | | |
| 031000257 | Tarrell Creek Stabilization | 3 | 2 | 4 | 1 | 0 | | 0.03 | 123.61 | | |
| 031000258 | Jackson Meadows Pond Erosion Control | 59 | 51 | 171 | 0 | 7 | | 1.69 | 211.24 | | |
| 031000259 | Long Branch Channel Improvements (Dewitt to Ingram) | 59 | 51 | 171 | 0 | 7 | | 1.69 | 211.24 | | |
| 031000260 | North Colony Blvd. at Powers Street | 7 | 7 | 26 | 1 | 0 | | 0.45 | 10.24 | | |
| 031000261 | Office Creek Drainage Study | 1 | 0 | 4 | 1 | 0 | | 0.47 | 23.48 | | |
| 031000262 | Bill Allen Park Erosion Study | 3 | 1 | 12 | 1 | 0 | | 1.08 | 167.40 | | |
| 031000263 | Johnson County Low Water Crossings - East Side | 1,851 | 1,555 | 4,897 | 21 | 418 | | 61.68 | 18,202.78 | | |
| 031000264 | Johnson County Low Water Crossings - West Side | 1,851 | 1,555 | 4,897 | 21 | 418 | | 61.68 | 18,202.78 | | |
| 031000265 | Tributary SB-1: Circle Lane Culvert Improvements | 148 | 120 | 1,152 | 0 | 1 | | 3.48 | 3.48 | | |
| 031000266 | Tributary SB-1: Shirley Way Culvert Improvements | 148 | 120 | 1,152 | 0 | 1 | | 3.48 | 3.48 | | |
| 031000267 | Tributary SB-1: Briar Drive Culvert Improvements | 148 | 120 | 1,152 | 0 | 1 | | 3.48 | 3.48 | | |
| 031000268 | Tributary SB-1: Schumac Lane Culvert Improvements | 239 | 204 | 3,688 | 0 | 8 | | 5.29 | 140.33 | | |
| 031000269 | Tributary SB-1: Donna Lane Culvert Improvements | 148 | 120 | 1,152 | 0 | 1 | | 3.48 | 3.48 | | |
| 031000270 | Sulphur Branch: Circle Lane Culvert Improvements | 148 | 120 | 1,152 | 0 | 1 | | 3.48 | 3.48 | | |
| 031000271 | Sulphur Branch: Bedford Road Culvert Improvements | 148 | 120 | 1,152 | 0 | 1 | | 3.48 | 3.48 | | |
| 031000272 | Fairfield South Bateman Drainage Study | 41 | 36 | 64 | 2 | 1 | | 2.42 | 411.50 | | |
| 031000273 | City of Plano DMP | 381 | 326 | 5,528 | 1 | 33 | | 18.44 | 695.40 | | |
| 031000274 | Collin County flooding hazard/vulnerability assessment | 2,842 | 2,401 | 17,576 | 28 | 86 | | 145.78 | 34,153.61 | | |
| 031000275 | Houston County Lake Dam Emergency Action Plan | 737 | 440 | 711 | 10 | 45 | | 110.11 | 79,761.34 | | |
| 031000276 | Grayson County Dams Compliance Assessment | 436 | 376 | 541 | 12 | 50 | | 42.70 | 21,311.84 | | |
| 031000277 | Denton County USDA (NRCS) Dam Studies and Rehabilitation | 4,675 | 3,634 | 18,656 | 89 | 177 | | 245.07 | 53,344.36 | | |
| 031000278 | Spring Creek Retaining Walls | 274 | 255 | 2,604 | 1 | 28 | | 13.17 | 83.02 | | |
| 031000279 | Colonel Palm Valley Drainage Improvements | 10 | 10 | 26 | 0 | 2 | | 0.54 | 84.70 | | |
| 031000280 | Ashville Drive Drainage Improvements | 232 | 227 | 863 | 1 | 5 | | 3.98 | 44.78 | | |
| 031000281 | Freeman Heights Drainage Improvements | 40 | 28 | 298 | 0 | 8 | | 1.87 | 7.36 | | |
| 031000282 | Tobin trail Drainage Analysis | 232 | 227 | 863 | 1 | 5 | | 3.98 | 44.78 | | |
| 031000283 | Whites Bayou/Spring Branch Flood Study | 205 | 102 | 259 | 0 | 1 | | 5.30 | 3,806.31 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000284 | Predicted Maximum Probable Inundation Map | Use NWS gage height forecasts from the River Forecast Center to generate a potential floodplain along the main stem of the Trinity River. | 03000005,03000005, 03000039, 03000040 | All | | | | Watershed Planning | 17,848.51 | Riverine,Urban | Trinity River Authority | Trinity River Authority | N | $2,000,000 | |
| 031000285 | Headwaters of South Fork Trinity River Tributaries Through Hudson Oaks | Study to determine flooding issues and potential future projects. | 03000007, 03000008, 03000009, 03000010 | Parker | 12030102 | 120301020205, 120301020203, 120301020206, 120301020207, 120301020204 | Clear Fork Trinity River-Lake Weatherford, Squaw Creek-Clear Fork Trinity River, Underwood Branch-Willow Creek, Brogden Branch-Town Creek, South Fork | Watershed Planning | 6.46 | Riverine | Hudson Oaks | Hudson Oaks | N | $164,000 | |
| 031000286 | Headwaters of Clear Fork Trinity River Tributaries Through Hudson Oaks | Study to determine flooding issues and potential future projects. | 03000007, 03000008, 03000009, 03000010 | Parker | 12030102 | 120301020203, 120301020207, 120301020204 | Clear Fork Trinity River-Lake Weatherford, Squaw Creek-Clear Fork Trinity River, South Fork | Watershed Planning | 4.95 | Riverine | Hudson Oaks | Hudson Oaks | N | $106,000 | |
| 031000287 | Headwaters of Willow Creek Regulatory Floodplain Determination Study | Mapping study for Headwaters of Willow Creek through Mansfield ETJ. | 03000001, 03000002, 03000005, 03000006, 03000025, 03000026 | Tarrant | 12030102 | 120301020403, 120301020604, 120301020402, 120301020405 | Deer Creek-Village Creek, Village Creek-Lake Arlington, Rush Creek-Village Creek, King Branch-Walnut Creek | Watershed Planning | 6.00 | Riverine | Mansfield | Mansfield | N | $137,000 | |
| 031000288 | Mountain Creek and Tribs Regulatory Floodplain Determination Study | Mapping study for Mountain Creek and Tribs through Mansfield ETJ. | 03000001, 03000002, 03000005, 03000006, 03000025, 03000026 | Johnson, Ellis | 12030102 | 120301020603, 120301020601, 120301020604, 120301020605, 120301020602 | Headwaters Mountain Creek, Soap Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Watershed Planning | 18.26 | Riverine | Mansfield | Mansfield | N | $396,000 | |
| 031000289 | Hogpen Creek and Detention Facilities H&H Modeling Update | Detailed headwaters study completed with detention. Needs a connectivity H&H modeling with identified detention. | 03000005, 03000006, 03000009, 03000010, 03000021, 03000022, | Tarrant | 12030102 | 120301020604, 120301020605, 120301020405 | Rush Creek-Village Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Watershed Planning | 5.61 | Riverine | Mansfield | Mansfield | N | $115,000 | |
| 031000290 | Rock Creek Watershed Study | Study to improve knowledge of flood risks and facilitate the analysis of proposed developments within or adjacent to the floodplain. | 03000005, 03000006, 03000023, 03000024, | Johnson | 12030102, 12060202 | 120301020401, 120602020202, 120602020201, 120301020304 | Rock Creek, Quil Miller Creek-Village Creek | Watershed Planning | 11.21 | Riverine | Burleson | Burleson | N | $100,000 | |
| 031000291 | Walnut Creek Watershed Study | Study to improve knowledge of flood risks and facilitate the analysis of proposed developments within or adjacent to the floodplain. | 03000005, 03000006, 03000023, 03000024, | Johnson | 12030102 | 120301020401, 120301020604 | Quil Miller Creek-Village Creek, King Branch-Walnut Creek | Watershed Planning | 3.43 | Riverine | Burleson | Burleson | N | $150,000 | |
| 031000292 | North Creek Watershed Study | Study to improve knowledge of flood risks and facilitate the analysis of proposed developments within or adjacent to the floodplain. | 03000005, 03000006, 03000023, 03000024, 03000039, 03000040 | Johnson, Tarrant | 12030102 | 120301020401, 120301020402 | Quil Miller Creek-Village Creek, Deer Creek-Village Creek | Watershed Planning | 3.00 | Riverine | Burleson | Burleson | N | $50,000 | |
| 031000293 | Quil Miller Creek Watershed Study | Study to improve knowledge of flood risks and facilitate the analysis of proposed developments within or adjacent to the floodplain. | 03000005, 03000006, 03000023, 03000024, | Johnson | 12030109, 12030102, 12060202 | 120301020401, 120602020202, 120301090101, 120301020604, 120301020402 | Quil Miller Creek-Village Creek, Deer Creek-Village Creek, King Branch-Walnut Creek, Headwaters North Fork Chambers Creek | Watershed Planning | 22.97 | Riverine | Burleson | Burleson | N | $265,000 | |
| 031000294 | Hurst Creek Watershed Study | Study to improve knowledge of flood risks and facilitate the analysis of proposed developments within or adjacent to the floodplain. | 03000005, 03000006, 03000023, 03000024, | Johnson | 12030102 | 120301020401 | Quil Miller Creek-Village Creek | Watershed Planning | 1.06 | Riverine | Burleson | Burleson | N | $50,000 | |
| 031000295 | City of Wilmer DMP | Evaluate City and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030105 | 120301050202, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River | Watershed Planning | 8.10 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000296 | Alta Mesa Branch at Persimmon Road | Evaluate bridge improvements for Persimmon Road over Alta Mesa Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050108 | Headwaters Fivemile Creek, Fivemile Creek-Trinity River | Project Planning | 7.06 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000297 | Alta Mesa Branch at Simpson Stuart Road | Evaluate culvert improvements for Simpson Stuart Road over Alta Mesa Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050108 | Headwaters Fivemile Creek, Fivemile Creek-Trinity River | Project Planning | 7.06 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000298 | Alta Mesa Branch at Tracy Road | Evaluate bridge improvements: Tracy Road over Alta Mesa Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050108 | Headwaters Fivemile Creek, Fivemile Creek-Trinity River | Project Planning | 7.06 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000299 | Ricketts Branch at Camp Wisdom Road | Evaluate bridge improvements for Camp Wisdom Road over Ricketts Branch (2 structures) | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201 | Headwaters Fivemile Creek, Headwaters Tenmile Creek | Project Planning | 4.30 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000300 | Ricketts Branch at IH 35E Service | Evaluate bridge improvements for IH 35E over Ricketts Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201 | Headwaters Fivemile Creek, Headwaters Tenmile Creek | Project Planning | 4.30 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000301 | Runyon Springs Branch at Crouch Road | Evaluate bridge improvements for Crouch Road over Runyon Springs Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201, 120301050202, 120301050108 | Deep Branch-Tenmile Creek, Headwaters Fivemile Creek, Fivemile Creek-Trinity River, Headwaters Tenmile Creek | Project Planning | 3.86 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000302 | Whites Branch at Langdon Road | Evaluate bridge improvements for Langdon Road over Whites Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 2.55 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000303 | Wilson Branch at Bonnie View Road | Evaluate bridge improvements for Bonnie View Road over Wilson Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108 | Fivemile Creek-Trinity River | Project Planning | 3.75 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000304 | Wilson Branch at J J Lemmon Road | Evaluate bridge improvements for J J Lemmon Road over Wilson Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108 | Fivemile Creek-Trinity River | Project Planning | 3.75 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000305 | Wilson Branch at Tioga Street | Evaluate bridge improvements for Tioga Street over Wilson Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108 | Fivemile Creek-Trinity River | Project Planning | 3.75 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000306 | Woody Branch at Loop 12 | Evaluate bridge improvements for Loop 12 over Woody Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030102, 12030105 | 120301050107, 120301050201, 120301020607 | Cottonwood Creek-Mountain Creek Lake, Headwaters Fivemile Creek, Headwaters Tenmile Creek | Project Planning | 10.56 | Riverine | Dallas | Dallas | N | $250,000 | |
| 031000307 | Hutchins Creek at Denton Street | Evaluate culvert improvements for Denton Street over Hutchins Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 2.30 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000308 | Hutchins Creek at J J Lemmon Street | Evaluate bridge improvements for J J Lemmon Street over Hutchins Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 2.30 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000309 | Hutchins Creek at Main Street | Evaluate bridge improvements for Main Street over Hutchins Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 2.30 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000310 | Rawlins Creek at Dowdy Ferry Road | Evaluate bridge improvements for Dowdy Ferry Road over Rawlins Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.55 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000311 | Rawlins Creek at IH 45 | Evaluate bridge improvements for IH 45 over Rawlins Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.55 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000312 | Rawlins Creek at Main Street | Evaluate bridge improvements for Main Street over Rawlins Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.55 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000313 | Stream 4A4 at Goode Road | Evaluate bridge improvements for Goode Road over Stream 4A4 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000314 | Stream 4A4 at IH 45 | Evaluate bridge improvements for IH 45 over Stream 4A4 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000315 | Stream 4B4 at Austin Street | Evaluate culvert improvements for Austin Street over Stream 4B4 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.55 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000316 | Stream 4B4 at Crestridge Drive | Evaluate culvert improvements for Crestridge Drive over Stream 4B4 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.55 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000317 | Stream 4B4 at Denton Street | Evaluate culvert improvements for Denton Street over Stream 4B4 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050108, 120301050203 | Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.55 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000318 | Halls Branch at 1st Street | Evaluate bridge improvements for 1st Street over Halls Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000284 | Predicted Maximum Probable Inundation Map | 186,744 | 141,182 | 882,992 | 1,795 | 2,828 | | 7,605.60 | 3,629.90 | | |
| 031000285 | Headwaters of South Fork Trinity River Tributaries Through Hudson Oaks | 33 | 20 | 51 | 4 | 0 | | 0.62 | 714.98 | | |
| 031000286 | Headwaters of Clear Fork Trinity River Tributaries Through Hudson Oaks | 32 | 26 | 689 | 5 | 3 | | 2.82 | 179.35 | | |
| 031000287 | Headwaters of Willow Creek Regulatory Floodplain Determination Study | 43 | 36 | 105 | 1 | 2 | | 0.53 | 188.25 | | |
| 031000288 | Mountain Creek and Tribs Regulatory Floodplain Determination Study | 61 | 45 | 118 | 0 | 15 | | 4.26 | 1,346.77 | | |
| 031000289 | Hogpen Creek and Detention Facilities H&H Modeling Update | 43 | 41 | 143 | 1 | 1 | | 1.45 | 34.12 | | |
| 031000290 | Rock Creek Watershed Study | 88 | 73 | 226 | 0 | 15 | | 3.17 | 636.59 | | |
| 031000291 | Walnut Creek Watershed Study | 34 | 33 | 56 | 0 | 7 | | 0.72 | 95.48 | | |
| 031000292 | North Creek Watershed Study | 3 | 0 | 91 | 0 | 2 | | 1.17 | 20.00 | | |
| 031000293 | Quil Miller Creek Watershed Study | 234 | 215 | 596 | 2 | 21 | | 6.33 | 1,015.49 | | |
| 031000294 | Hurst Creek Watershed Study | 14 | 14 | 57 | 0 | 0 | | 0.28 | 5.62 | | |
| 031000295 | City of Wilmer DMP | 71 | 69 | 573 | 0 | 11 | | 4.00 | 195.08 | | |
| 031000296 | Alta Mesa Branch at Persimmon Road | 179 | 147 | 561 | 3 | 3 | | 9.52 | 160.75 | | |
| 031000297 | Alta Mesa Branch at Simpson Stuart Road | 179 | 147 | 561 | 3 | 3 | | 9.52 | 160.75 | | |
| 031000298 | Alta Mesa Branch at Tracy Road | 179 | 147 | 561 | 3 | 3 | | 9.52 | 160.75 | | |
| 031000299 | Ricketts Branch at Camp Wisdom Road | 5 | 5 | 19 | 0 | 1 | | 0.54 | 2.25 | | |
| 031000300 | Ricketts Branch at IH 35E Service | 5 | 5 | 19 | 0 | 1 | | 0.54 | 2.25 | | |
| 031000301 | Runyon Springs Branch at Crouch Road | 9 | 1 | 129 | 2 | 1 | | 1.98 | 23.40 | | |
| 031000302 | Whites Branch at Langdon Road | 0 | 0 | 0 | 0 | 0 | | 0.27 | 19.33 | | |
| 031000303 | Wilson Branch at Bonnie View Road | 27 | 25 | 25 | 0 | 1 | | 5.44 | 64.39 | | |
| 031000304 | Wilson Branch at J J Lemmon Road | 27 | 25 | 25 | 0 | 1 | | 5.44 | 64.39 | | |
| 031000305 | Wilson Branch at Tioga Street | 27 | 25 | 25 | 0 | 1 | | 5.44 | 64.39 | | |
| 031000306 | Woody Branch at Loop 12 | 106 | 106 | 405 | 1 | 2 | | 6.03 | 2.61 | | |
| 031000307 | Hutchins Creek at Denton Street | 7 | 1 | 38 | 0 | 2 | | 0.87 | 29.77 | | |
| 031000308 | Hutchins Creek at J J Lemmon Street | 7 | 1 | 38 | 0 | 2 | | 0.87 | 29.77 | | |
| 031000309 | Hutchins Creek at Main Street | 7 | 1 | 38 | 0 | 2 | | 0.87 | 29.77 | | |
| 031000310 | Rawlins Creek at Dowdy Ferry Road | 29 | 27 | 61 | 1 | 5 | | 1.15 | 81.64 | | |
| 031000311 | Rawlins Creek at IH 45 | 29 | 27 | 61 | 1 | 5 | | 1.15 | 81.64 | | |
| 031000312 | Rawlins Creek at Main Street | 29 | 27 | 61 | 1 | 5 | | 1.15 | 81.64 | | |
| 031000313 | Stream 4A4 at Goode Road | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000314 | Stream 4A4 at IH 45 | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000315 | Stream 4B4 at Austin Street | 29 | 27 | 61 | 1 | 5 | | 1.15 | 81.64 | | |
| 031000316 | Stream 4B4 at Crestridge Drive | 29 | 27 | 61 | 1 | 5 | | 1.15 | 81.64 | | |
| 031000317 | Stream 4B4 at Denton Street | 29 | 27 | 61 | 1 | 5 | | 1.15 | 81.64 | | |
| 031000318 | Halls Branch at 1st Street | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000319 | Halls Branch at 4th Street | Evaluate bridge improvements for 4th Street over Halls Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000320 | Halls Branch at 6th Street | Evaluate bridge improvements for 6th Street over Halls Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000321 | Halls Branch at Cedar Street | Evaluate bridge improvements for Cedar Street over Halls Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000322 | Halls Branch at Main Street | Evaluate bridge improvements for Main Street over Halls Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000323 | Halls Branch at Redbud Lane | Evaluate bridge improvements for Redbud Lane over Halls Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000324 | Keller Branch at Jefferson Street | Evaluate bridge improvements for Jefferson Street over Keller Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.16 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000325 | Keller Branch at Main Street | Evaluate bridge improvements for Main Street over Keller Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.16 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000326 | Keller Branch at Pleasant Run Road | Evaluate bridge improvements for Pleasant Run Road over Keller Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.16 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000327 | Mill Branch at Houston School Road | Evaluate bridge improvements for Houston School Road over Mill Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201, 120301050202 | Deep Branch-Tenmile Creek, Headwaters Fivemile Creek, Headwaters Tenmile Creek | Project Planning | 3.40 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000328 | Mill Branch at Wintergreen Road | Evaluate bridge improvements for Wintergreen Road over Mill Branch | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201, 120301050202 | Deep Branch-Tenmile Creek, Headwaters Fivemile Creek, Headwaters Tenmile Creek | Project Planning | 3.40 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000329 | Stream 3A1 at Ten Mile Road | Evaluate bridge improvements for Ten Mile Road over Stream 3A1 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050201, 120301050202, 120301050305 | Deep Branch-Tenmile Creek, Headwaters Tenmile Creek, Middle Red Oak Creek | Project Planning | 2.70 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000330 | Stream 3A6 at Belt Line Road | Evaluate bridge improvements for Belt Line Road over Stream 3A6 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 3.16 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000331 | Ten Mile Creek at Bluegrove Road | Evaluate bridge improvements for Bluegrove Road over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050201, 120301050202, 120301050305 | Deep Branch-Tenmile Creek, Headwaters Tenmile Creek, Middle Red Oak Creek | Project Planning | 2.70 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000332 | Ten Mile Creek at Houston School Road | Evaluate bridge improvements for Houston School Road over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201, 120301050202, 120301050305 | Deep Branch-Tenmile Creek, Headwaters Fivemile Creek, Headwaters Tenmile Creek, Middle Red Oak Creek | Project Planning | 8.19 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000333 | Ten Mile Creek at IH 35E Service | Evaluate bridge improvements for IH 35E Service over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201, 120301050202, 120301050305 | Deep Branch-Tenmile Creek, Headwaters Fivemile Creek, Headwaters Tenmile Creek, Middle Red Oak Creek | Project Planning | 8.19 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000334 | Ten Mile Creek at IH 35E Service (County Highway 1382) | Evaluate bridge improvements for IH 35E Service (County Highway 1382) over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050107, 120301050201, 120301050202, 120301050305 | Deep Branch-Tenmile Creek, Headwaters Fivemile Creek, Headwaters Tenmile Creek, Middle Red Oak Creek | Project Planning | 8.19 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000335 | Ten Mile Creek at Nokomis Road | Evaluate bridge improvements for Nokomis Road over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000336 | Ten Mile Creek at Old Red Oak Road | Evaluate bridge improvements for Road over Ten Mile Creek at Old Red | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000337 | Ten Mile Creek at SH 342 | Evaluate bridge improvements for SH 342 over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050305 | Deep Branch-Tenmile Creek, Fivemile Creek-Trinity River, Middle Red Oak Creek | Project Planning | 3.03 | Riverine | Lancaster | Lancaster | N | $250,000 | |
| 031000338 | Cottonwood Creek of Ten Mile Creek at Goode Road | Evaluate bridge improvements for Goode Road over Cottonwood Creek of Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000339 | Cottonwood Creek of Ten Mile Creek at IH 45 | Evaluate bridge improvements for IH 45 over Cottonwood Creek of Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000340 | Cottonwood Creek of Ten Mile Creek at IH 45 Northbound Service Road | Evaluate bridge improvements for IH 45 Northbound Service Road over Cottonwood Creek of Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000341 | Cottonwood Creek of Ten Mile Creek at IH 45 Southbound Service Road | Evaluate bridge improvements for IH 45 Southbound Service Road over Cottonwood Creek of Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000342 | Cottonwood Creek of Ten Mile Creek at Kissell (College) Road | Evaluate bridge improvements for Kissell (College) Road over Cottonwood Creek of Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 5.53 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000343 | Cottonwood Creek of Ten Mile Creek at Millers Ferry Road | Evaluate bridge improvements for Millers Ferry Road over Cottonwood Creek of Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000344 | Cottonwood Creek of Ten Mile Creek at Pleasant Run Road | Evaluate bridge improvements for Pleasant Run Road over Cottonwood Creek of Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000345 | Stream 4A1 at Goode Road | Evaluate bridge improvements for Goode Road over Stream 4A1 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River | Project Planning | 3.51 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000346 | Stream 4A5 at Goode Road | Evaluate bridge improvements for Goode Road over Stream 4A5 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 5.53 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000347 | Stream 4A5 at IH 45 | Evaluate bridge improvements for IH 45 over Stream 4A5 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 5.53 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000348 | Ten Mile Creek at Ferris Road | Evaluate bridge improvements for Ferris Road over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050306, 120301050202, 120301050305, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Middle Red Oak Creek, Lower Red Oak Creek | Project Planning | 16.95 | Riverine | Wilmer | Wilmer | N | $250,000 | |
| 031000349 | Stream 4A4 at Fulghum Road | Evaluate bridge improvements for Fulghum Road over Stream 4A4 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050203 | Prairie Creek-Trinity River | Project Planning | 2.96 | Riverine | Dallas County | Dallas County | N | $250,000 | |
| 031000350 | Stream 4A1 at Geller Road | Evaluate bridge improvements for Geller Road over Stream 4A1 | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050202, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River | Project Planning | 3.51 | Riverine | Dallas County | Dallas County | N | $250,000 | |
| 031000351 | Ten Mile Creek at Parkinson Road | Evaluate bridge improvements for Parkinson Road over Ten Mile Creek | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Dallas | 12030105 | 120301050306, 120301050202, 120301050305, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Middle Red Oak Creek, Lower Red Oak Creek | Project Planning | 16.95 | Riverine | Dallas County | Dallas County | N | $1,032,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000319 | Halls Branch at 4th Street | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000320 | Halls Branch at 6th Street | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000321 | Halls Branch at Cedar Street | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000322 | Halls Branch at Main Street | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000323 | Halls Branch at Redbud Lane | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000324 | Keller Branch at Jefferson Street | 25 | 17 | 2,137 | 0 | 1 | | 0.76 | 47.79 | | |
| 031000325 | Keller Branch at Main Street | 25 | 17 | 2,137 | 0 | 1 | | 0.76 | 47.79 | | |
| 031000326 | Keller Branch at Pleasant Run Road | 25 | 17 | 2,137 | 0 | 1 | | 0.76 | 47.79 | | |
| 031000327 | Mill Branch at Houston School Road | 54 | 50 | 580 | 0 | 1 | | 2.14 | 10.68 | | |
| 031000328 | Mill Branch at Wintergreen Road | 54 | 50 | 580 | 0 | 1 | | 2.14 | 10.68 | | |
| 031000329 | Stream 3A1 at Ten Mile Road | 12 | 11 | 26 | 0 | 2 | | 0.62 | 69.59 | | |
| 031000330 | Stream 3A6 at Belt Line Road | 25 | 17 | 2,137 | 0 | 1 | | 0.76 | 47.79 | | |
| 031000331 | Ten Mile Creek at Bluegrove Road | 12 | 11 | 26 | 0 | 2 | | 0.62 | 69.59 | | |
| 031000332 | Ten Mile Creek at Houston School Road | 193 | 173 | 1,166 | 2 | 5 | | 7.36 | 81.92 | | |
| 031000333 | Ten Mile Creek at IH 35E Service | 193 | 173 | 1,166 | 2 | 5 | | 7.36 | 81.92 | | |
| 031000334 | Ten Mile Creek at IH 35E Service (County Highway 1382) | 193 | 173 | 1,166 | 2 | 5 | | 7.36 | 81.92 | | |
| 031000335 | Ten Mile Creek at Nokomis Road | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000336 | Ten Mile Creek at Old Red Oak Road | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000337 | Ten Mile Creek at SH 342 | 67 | 57 | 333 | 1 | 9 | | 2.03 | 32.62 | | |
| 031000338 | Cottonwood Creek of Ten Mile Creek at Goode Road | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000339 | Cottonwood Creek of Ten Mile Creek at IH 45 | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000340 | Cottonwood Creek of Ten Mile Creek at IH 45 Northbound Service Road | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000341 | Cottonwood Creek of Ten Mile Creek at IH 45 Southbound Service Road | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000342 | Cottonwood Creek of Ten Mile Creek at Kissell (College) Road | 47 | 47 | 106 | 0 | 4 | | 1.86 | 74.19 | | |
| 031000343 | Cottonwood Creek of Ten Mile Creek at Millers Ferry Road | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000344 | Cottonwood Creek of Ten Mile Creek at Pleasant Run Road | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000345 | Stream 4A1 at Goode Road | 29 | 29 | 90 | 0 | 2 | | 0.57 | 137.57 | | |
| 031000346 | Stream 4A5 at Goode Road | 47 | 47 | 106 | 0 | 4 | | 1.86 | 74.19 | | |
| 031000347 | Stream 4A5 at IH 45 | 47 | 47 | 106 | 0 | 4 | | 1.86 | 74.19 | | |
| 031000348 | Ten Mile Creek at Ferris Road | 28 | 22 | 41 | 3 | 0 | | 4.07 | 1,892.14 | | |
| 031000349 | Stream 4A4 at Fulghum Road | 2 | 0 | 405 | 0 | 7 | | 1.01 | 56.79 | | |
| 031000350 | Stream 4A1 at Geller Road | 29 | 29 | 90 | 0 | 2 | | 0.57 | 137.57 | | |
| 031000351 | Ten Mile Creek at Parkinson Road | 28 | 22 | 41 | 3 | 0 | | 4.07 | 1,892.14 | | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG**

| FME ID | FME Name | Description | Associated Goal No. | Counties | HUC8s | HUC12s | Watersheds | Study Type | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost (2020 $) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000352 | City of Hutchins DMP | Evaluate city and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030105 | 120301050202, 120301050108, 120301050203 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Fivemile Creek-Trinity River | Project Planning | 9.36 | Riverine | Hutchins | Hutchins | N | $250,000 | |
| 031000353 | City of Seagoville DMP | Evaluate city and identify future projects. | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030106, 12030105 | 120301050204, 120301060505, 120301060507, 120301050205, 120301050203 | Prairie Creek-Trinity River, Hickory Creek-Parsons Slough, Parsons Slough-Trinity River, Mustang Creek-East Fork Trinity River, White House Ridge-East Fork Trinity River | Project Planning | 18.94 | Riverine | Seagoville | Seagoville | N | $250,000 | |
| 031000354 | City of Huntsville DMP | Evaluate city and identify future projects | 03000007, 03000008, 03000009, 03000010 | Walker | 12040103, 12040101, 12030202 | 120302020805, 120401010202, 120302020802, 120302020801, 120401010102, 120401030302, 120401010104 | Crabb Creek-Nelson Creek, Little School Branch-Nelson Creek, Harmon Creek | Watershed Planning | 13.56 | Riverine | Hunstville | Hunstville | N | $500,000 | |
| 031000355 | City of Weatherford DMP | Evaluate city and identify future projects | 03000007, 03000008, 03000009, 03000010 | Parker | 12060201, 12030102 | 120301020205, 120602011201, 120301020103, 120301020203, 120301020206, 120301020207, 120301020204 | Silver Creek-Lake Worth, Clear Fork Trinity River-Lake Weatherford, Squaw Creek-Clear Fork Trinity River, Underwood Branch-Willow Creek, Brogden Branch-Town Creek, South Fork | Watershed Planning | 26.15 | Riverine | Weatherford | Weatherford | N | $500,000 | |
| 031000358 | City of Irving DMP | Evaluate city and identify future projects | 03000007, 03000008, 03000009, 03000010 | Dallas | 12030103, 12030102, 12030105 | 120301031006, 120301020706, 120301031005, 120301031004, 120301031007, 120301020701, 120301020705, 120301050101 | Silver Creek-Lake Worth, Clear Fork Trinity River-Lake Weatherford, Squaw Creek-Clear Fork Trinity River, Underwood Branch-Willow Creek, Brogden Branch-Town Creek, South Fork | Watershed Planning | 67.82 | Riverine | Irving | Irving | N | $1,000,000 | |

**Region 3 - Table 12: Potential Flood Management Evaluations Identified by RFPG (cont.)**

| FME ID (cont.) | FME Name (cont.) | Estimated number of structures at flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road segment closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Existing or Anticipated Models (year) | Existing or Anticipated Maps (year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 031000352 | City of Hutchins DMP | 45 | 32 | 369 | 2 | 8 | | 2.23 | 140.39 | | |
| 031000353 | City of Seagoville DMP | 180 | 170 | 627 | 0 | 7 | | 10.39 | 1,728.29 | | |
| 031000354 | City of Huntsville DMP | 238 | 211 | 2,819 | 3 | 2 | | 6.21 | 107.40 | | |
| 031000355 | City of Weatherford DMP | 520 | 468 | 2,170 | 9 | 10 | | 17.59 | 759.01 | | |
| 031000358 | City of Irving DMP | 4,589 | 4,495 | 40,893 | 26 | 38 | | 85.33 | 1,397.40 | | |

**Region 3 - Table 13: Potentially Feasible Flood Mitigation Projects Identified by RFPG**

| | | | | | | | | | | | | | | Flood Risk | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FMP ID | FMP Name | Description | Associated Goals (ID) | Counties | HUC12s | Watersheds | Project Type | Project Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa, Other) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Project Cost ($) | Potential Funding Sources and Amount | Area in 100yr (1% annual chance) Floodplain | Area in 500yr (0.2% annual chance) Floodplain | Estimated number of structures at 100yr flood risk | Residential structures at 100yr flood risk | Estimated Population at 100yr flood risk | Critical facilities at 100yr flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road closures (#) | Estimated length of roads at 100yr flood risk (Miles) | Estimated farm & ranch land at 100yr flood risk (acres) |
| 033000007 | Spring Meadows Estates Detention Pond Design | Pond redesign and reconstruction to lower normal pool elevation to be below inlets upstream. Increase storage capacity and design outlet works to increase level of service to 100-yr storm event. | 03000013, 03000014, 03000031, 03000032 | Dallas | 120301060406, 120301060408, 120301060403 | Muddy Creek-Lake Ray Hubbard, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Regional Detention | 0.650 | Riverine | Sachse | Sachse | N | $1,868,000 | State, Local | 0.01 | N/A | 9 | 9 | 18 | 0 | 0 | N/A | 0.34 | 0.00 |
| 033000008 | West Irving Creek Phases 2, 3, and 4 | FIF - 13792; The West Irving Creek channel improvements project consists of reconstruction of over 2.5 miles of shallow trapezoidal concrete channel as deeper vertical walled channel to increase capacity and relieve historical flooding issues. The vertical walled channels allow the project to remain within a similar footprint as the existing channel to minimize easement needs and impacts to private properties while meeting the flood carrying capacity goals of the project. The channel improvements will also require the reconstruction of 15 road crossings and several miles of wastewater main. In conjunction with the channel improvements upstream detention improvements will be made as well as the implementation of water quality ponds to reduce pollutant load in the channel and to provide amenity to the adjoining neighborhoods. | 03000007, 03000008, 03000021, 03000022, 03000027, 03000028, 03000031, 03000032 | Dallas | 120301020706 | Delaware Creek-West Fork Trinity River | Infrastructure (channels, ditches, ponds, pipes, etc.) | 67.589 | Riverine | Irving | Irving | N | $98,746,000 | State, Local | 0.22 | N/A | 247 | 222 | 1,102 | 7 | 4 | 61 | 5.21 | 0.00 |
| 033000016 | Arlington VC(A)-1 Drainage and Erosion Improvements | Arlington VC(A)-1 Drainage and Erosion Improvements; unfunded FIF #13646<br>This project includes improving the drainage in a residential area with an undersized bridge and severe erosion issues. | 03000007, 03000008, 03000009, 03000010, 03000031, 03000032 | Tarrant | 120301020506, 120301020405 | Rush Creek-Village Creek, Walker Branch-West Fork Trinity River | Infrastructure (channels, ditches, ponds, pipes, etc.) | 1.274 | Riverine | Arlington | Arlington | N | $2,601,000 | State, Local | 0.17 | N/A | 115 | 110 | 472 | 4 | 3 | 37 | 2.24 | 0.00 |
| 033000030 | Lancaster/Foch Area Mitigation | To decrease the flooding depths near the Norwood/Bledsoe/Crockett intersections, a storm drain alternative was developed. The storm drain system would run along Foch Street and then through Trinity Park to the river. | 03000013, 03000014, 03000031, 03000032 | Tarrant | 120301020105, 120301020307 | Farmers Branch-West Fork Trinity River, Lake Como-Clear Fork Trinity River | Infrastructure (channels, ditches, ponds, pipes, etc.) | 6.466 | Riverine | Fort Worth | Fort Worth | N | $11,771,000 | State, Local | 0.36 | N/A | 400 | 250 | 14,214 | 3 | 1 | 59 | 6.60 | 0.00 |
| 033000031 | Linwood Park Flood Mitigation (University Drive) | To mitigate the flooding depths in the Linwood Park area, a storm drain would outfall to the West Fork Trinity River. | 03000013, 03000014, 03000017, 03000018, 03000031, 03000032 | Tarrant | 120301020105, 120301020307 | Farmers Branch-West Fork Trinity River, Lake Como-Clear Fork Trinity River | Infrastructure (channels, ditches, ponds, pipes, etc.) | 2.244 | Riverine | Fort Worth | Fort Worth | N | $50,523,000 | State, Local | 0.46 | N/A | 669 | 346 | 20,830 | 7 | 1 | 81 | 15.15 | 0.00 |
| 033000032 | Zoo Creek Storm Drain Flood Mitigation (Sandage) | A 10'x10' RCB section of the storm drain line reduces the 5-yr max depth at Berry St from 3.6 ft to 0.8 ft and the 100-yr max depth from 5.5 ft to 3.1 ft. | 03000013, 03000014, 03000031, 03000032 | Tarrant | 120301020307 | Lake Como - Clear Fork Trinity River | Infrastructure (channels, ditches, ponds, pipes, etc.) | 1.270 | Riverine, Urban | Fort Worth | Fort Worth | N | $19,021,000 | State, Local | 0.28 | N/A | 306 | 218 | 4,324 | 0 | 0 | 41 | 6.29 | 0.00 |
| 033000033 | Sunnyvale Urban Flooding Reduction Improvements - Area 1 | Proposed alternatives to reduce roadway overtopping's during the 100-year ultimate storm such as culvert and ditch improvements. | 03000013, 03000014, 03000031, 03000032 | Dallas | 120301060501, 120301060503 | Duck Creek, North Mesquite Creek-East Fork Trinity River | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.526 | Riverine | Sunnyvale | Sunnyvale | N | $4,560,000 | State, Local | 0.03 | N/A | 25 | 15 | 844 | 1 | 0 | 7 | 0.33 | 0.00 |
| 033000036 | Sunnyvale Urban Flooding Reduction Improvements - Area 2 | Proposed alternatives to reduce roadway overtopping's during the 100-year ultimate storm such as culvert, ditch and storm drain improvements. | 03000013, 03000014, 03000031, 03000032 | Dallas | 120301060503 | North Mesquite Creek-East Fork Trinity River | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.537 | Riverine | Sunnyvale | Sunnyvale | N | $5,701,000 | State, Local | 0.02 | N/A | 35 | 32 | 113 | 1 | 0 | 8 | 0.80 | 0.00 |
| 033000037 | Project 1 - Point North Parkway System | Prairie Creek; Approximately 450 feet of channel improvements to lower the HGL; proposed RCBC storm sewer main crossing Point North Parkway; new wingwalls; and additional 100 LF inlet capacity. The existing storm sewer system will remain except for the inlet laterals which will be abandoned and diverted to the proposed storm sewer main. The proposed improvements will minimize sedimentation at the Synergy Park Boulevard culverts and will reduce the flood depths at Point North Parkway. | 03000027, 03000028, 03000031, 03000032 | Collin | 120601060407 | Prairie Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.030 | Riverine, Urban | Richardson | Richardson | N | $870,000 | State, Local | 0.02 | N/A | 4 | 1 | 19 | 0 | 0 | 2 | 0.96 | 0.00 |
| 033000038 | Project 4 - Big Horn Lane/Canyon Creek Drive system | Prairie Creek; Replaces the existing storm sewer main between Big Horn Lane and Canyon Creek Drive with larger 36" and 48" storm sewer; additional 70 LF inlet capacity to reduce the flooding along Big Horn Lane, Canyon Creek Drive and Canyon Creek Country Club property | 03000031, 03000032 | Collin | 120601060407 | Prairie Creek | Storm Drain Infrastructure | 0.020 | Urban | Richardson | Richardson | N | $560,000 | State, Local | 0.01 | N/A | 10 | 10 | 37 | 0 | 0 | 3 | 0.16 | 0.00 |
| 033000039 | Project 6 - Valley Forge Street System | Prairie Creek; Parallel culvert crossing the KCS Railroad; concrete flume from the cul-de-sac to the alley parallel to the KCS Railroad; replaces the existing storm sewer main with larger 36" and 60" storm sewer; new wingwalls; and additional 50 LF inlet capacity to keep floodwaters within the road ROW | 03000027, 03000028, 03000031, 03000032 | Collin, Dallas | 120601060407 | Prairie Creek | Storm Drain Infrastructure | 0.020 | Urban | Richardson | Richardson | N | $680,000 | State, Local | 0.01 | N/A | 11 | 9 | 29 | 0 | 0 | 3 | 0.43 | 0.00 |
| 033000040 | Project 8 - Lower Canyon Creek Drive System | Prairie Creek; Replaces the existing storm sewer with larger 24", 36" and 42" storm sewer along Lower Canyon Creek Drive; new 42" storm sewer; and additional 70 LF inlet capacity to keep floodwaters within the road ROW | 03000027, 03000028, 03000031, 03000032 | Dallas | 120601060407 | Prairie Creek | Storm Drain Infrastructure | 0.020 | Urban | Richardson | Richardson | N | $1,330,000 | State, Local | 0.01 | N/A | 14 | 14 | 40 | 0 | 0 | 1 | 0.59 | 0.00 |
| 033000041 | Project 9 - Grandview Drive System | Prairie Creek; Replaces the existing storm sewer with larger storm sewer along Grandview Drive; new wingwalls; and additional 100 LF inlet capacity to keep floodwaters within the road ROW | 03000027, 03000028, 03000031, 03000032 | Dallas | 120601060407 | Prairie Creek | Storm Drain Infrastructure | 0.010 | Urban | Richardson | Richardson | N | $690,000 | State, Local | 0.01 | N/A | 10 | 9 | 34 | 0 | 0 | 2 | 0.23 | 0.00 |
| 033000042 | Project 16 - Valley Glen drive System | Prairie Creek; Parallel storm sewer along the existing storm sewer alignment and extends the existing system further downstream; new storm sewer; and additional 230 LF inlet capacity to reduce the flooding along Valley Glen Drive and Pleasant Valley Lane | 03000031, 03000032 | Collin | 120601060407 | Prairie Creek | Storm Drain Infrastructure | 0.010 | Urban | Richardson | Richardson | N | $1,340,000 | State, Local | 0.01 | N/A | 9 | 9 | 29 | 0 | 0 | 2 | 0.33 | 0.00 |
| 033000043 | Project 19 – Pebblebrook Circle System | Prairie Creek; Replaces the existing storm sewer with larger 36" storm sewer near Pebblebrook Circle; new 30" storm sewer; and additional 30 LF inlet capacity to keep floodwaters within the road ROW | 03000027, 03000028, 03000031, 03000032 | Dallas | 120601060407 | Prairie Creek | Storm Drain Infrastructure | 0.010 | Urban | Richardson | Richardson | N | $460,000 | State, Local | 0.00 | N/A | 3 | 3 | 3 | 0 | 0 | 2 | 0.15 | 0.00 |
| 033000044 | Project 2 – Campbell Road System | Cottonwood Creek; Replaces the existing storm sewer main with a larger 30" storm sewer; includes the addition of a 36" and 42" parallel storm sewer; and additional 50 LF inlet capacity near Campbell Road to keep floodwaters within the road ROW | 03000027, 03000028, 03000031, 03000032 | Dallas | 120601050104 | Cottonwood Creek | Storm Drain Infrastructure | 0.020 | Urban | Richardson | Richardson | N | $1,195,000 | State, Local | 0.01 | N/A | 10 | 4 | 85 | 0 | 0 | 1 | 0.24 | 0.00 |
| 033000045 | Project 6 – Wisteria Way Circle at Timberlake Circle | Cottonwood Creek; Replaces a portion of the existing storm sewer system with larger 30" RCP storm sewer and proposes an extensive RCBC underground system connecting to the existing stub out adjacent to the Pinehurst Drive and Wisteria Way; and additional 120 LF inlet capacity to keep floodwaters within the road ROW | 03000027, 03000028, 03000031, 03000032 | Dallas | 120601050104 | Cottonwood Creek | Storm Drain Infrastructure | 0.020 | Urban | Richardson | Richardson | N | $1,785,000 | State, Local | 0.01 | N/A | 30 | 22 | 66 | 0 | 0 | 1 | 0.51 | 0.00 |
| 033000046 | Project 14 – Ridgeway Circle and Ridgeway Drive System | Cottonwood Creek; 42" RCP storm sewer system addition extending to Dover Drive; 42" and 54" replacement of the existing storm sewer in Ridgeway Circle; and additional 70 LF inlet capacity to reduce flood depths at Dover Drive | 03000031, 03000032 | Dallas | 120601050104 | Cottonwood Creek | Storm Drain Infrastructure | 0.030 | Urban | Richardson | Richardson | N | $940,000 | State, Local | 0.01 | N/A | 34 | 27 | 150 | 0 | 0 | 3 | 0.67 | 0.00 |
| 033000047 | Project 15 – James Drive and Weatherred Drive System | Cottonwood Creek; 48" RCP diversion along Weatherred Drive; replaces the existing storm<br>sewer system with larger RCBC storm sewer near James Drive; and additional 65 LF inlet capacity to reduce the flood depths along James Drive and Bristol Court | 03000031, 03000032 | Dallas | 120601050104 | Cottonwood Creek | Storm Drain Infrastructure | 0.030 | Urban | Richardson | Richardson | N | $1,660,000 | State, Local | 0.02 | N/A | 32 | 22 | 130 | 0 | 0 | 4 | 0.76 | 0.00 |
| 033000048 | Project 25 – Improvements Within Lindale Branch Basin | Lindale Branch within Cottonwood Creek; Five (5) sub-projects: A1, A2, A3, A4, and A5; Phasing of these sub-projects should be a function of need and cost but are recommended to be implemented in this order: A3, A4, A5, A2, A1.; Sub-Project A1 proposes a new storm sewer system on the west side of Custer Road to provide relief to the existing system from upstream of Salem Drive to Vernet Street followed by a replacement of the existing system from Vernet Street to Jolee Street. This project also proposes a parallel system from Habee Street to Jolee Street.; Sub-Project A2 proposes adding a parallel system to the existing system that extends through the commercial area between Custer Road and Arapaho Road to allow the system to convey the 100-year flows from the upgraded upstream systems along Custer Road from Sub-Project A1.; Sub-Project A3 proposes storm sewer diversion from Arapaho Road to Lindale Branch to alleviate the existing system that extends through the commercial areas. Again, this is required to convey all the flow from the upgraded upstream systems (Sub-Project A1 and A2) and to reduce the flood depth within the commercial areas.; Sub-Project A4 proposes a replacement of the existing storm sewer system and add a new storm sewer system diversion to relieve the existing system North of Arapaho Road and provide more capacity to convey the 100-year storm event. This system conveys the flow resulting from the improvements of Sub-Project A5.; Sub-Project A5 proposes a replacement of the storm sewer system with box culverts between Lowell Lane and Rockingham Lane to convey the 100-year storm event. | 03000031, 03000032 | Dallas | 120601050104 | Lindale Branch | Storm Drain Infrastructure | 0.300 | Urban | Richardson | Richardson | N | $9,162,000 | State, Local | 0.09 | N/A | 169 | 96 | 1,728 | 1 | 0 | 7 | 5.20 | 0.00 |
| 033000049 | 10' X 4.5' Culvert at Glenville Drive | Huffhines Creek; Adding one 10-ft by 4.5-ft RCBC to the existing four 10-ft by 4.5-ft RCBC for a total of five culverts will allow for the 10-year and 50-year storm events to pass through the culverts without overtopping the roadway. A viable solution for the 100-year storm was not determined. | 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.005 | Riverine | Richardson | Richardson | N | $730,000 | State, Local | 0.00 | N/A | 1 | 1 | 2 | 0 | 0 | 3 | 0.28 | 0.00 |
| 033000050 | 2-9' X 7' Culverts Plano Road | Huffhines Creek; Adding two 9-ft by 7-ft RCBC on both overbanks of the existing five 9-ft by 7-ft RCBC for a total of seven culverts allows the 100-year storm event to pass through the culverts without overtopping the roadway. | 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.002 | Riverine | Richardson | Richardson | N | $1,280,000 | State, Local | 0.00 | N/A | 0 | 0 | 0 | 0 | 0 | 2 | 0.13 | 0.00 |
| 033000051 | 10' X 8' Culvert at St Johns Drive | Huffhines Creek; Adding one 10-ft by 8-ft RCBC to the existing six 10-ft by 8-ft RCBC for a total of seven culverts will allow for the 10-year and 50-year storm events to pass through the culverts without overtopping the roadway. An additional box culvert can be added to allow the 50-year to pass. Additional culverts are not advised due to tailwater constraints. | 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.006 | Riverine | Richardson | Richardson | N | $1,430,000 | State, Local | 0.00 | N/A | 0 | 0 | 0 | 0 | 0 | 1 | 0.06 | 0.00 |
| 033000052 | 3-10' X 8' Culverts at Yale Blvd. | Huffhines Creek; Adding three 10-ft by 8-ft RCBC to the existing six 10-ft by 8-ft RCBC for a total of nine culverts will allow the 100-year storm event to pass through the culverts without overtopping the roadway. | 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.001 | Riverine | Richardson | Richardson | N | $840,000 | State, Local | 0.00 | N/A | 0 | 0 | 0 | 0 | 0 | 2 | 0.12 | 0.00 |
| 033000053 | Sub-project A1 - Glenville Drive/College Park Area Improvements | Huffhines Creek; A 20-acre-ft (35,100 cubic yards of cut) detention pond is proposed at the intersection of Windsong Trail and Glenville Drive at the existing open channel to mitigate peak discharges downstream. | 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Regional Detention | 0.994 | Urban | Richardson | Richardson | N | $970,000 | State, Local | 0.27 | N/A | 186 | 157 | 2,966 | 0 | 0 | 260 | 22.74 | 4.81 |
| 033000054 | Sub-project A2 - Improvements along Glenville Drive | Huffhines Creek; Proposes a bypass storm sewer line along Glenville Drive from Windsong Trail to Huffhines Creek to alleviate undersized existing system. Approximately 1,860 LF of proposed 12-ft by 6-ft RCBC will tie into the proposed detention pond (Sub-project A1). Approximately 160 LF of existing 27" RCP will be replaced with 60" RCP to reduce ponding near Shadyglen Circle. Lastly, 130 LF of new inlet is proposed. | 03000027, 03000028, 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.209 | Urban | Richardson | Richardson | N | $2,960,000 | State, Local | 0.09 | N/A | 28 | 16 | 639 | 0 | 0 | 58 | 5.30 | 2.83 |
| 033000055 | Sub-project A3 - College Park Bypass | Huffhines Creek; Proposes a relief system to accommodate increase discharges from upstream improvements. Approximately 1,290 LF of 5-ft by 10-ft RCBC and 1,200 LF of 5-ft by 8-ft RCBC is proposed along the median of Glenville Drive to the outfall of the proposed detention pond from Sub-project A1. | 03000027, 03000028, 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.465 | Urban | Richardson | Richardson | N | $3,440,000 | State, Local | 0.16 | N/A | 86 | 71 | 702 | 0 | 0 | 147 | 13.12 | 2.83 |
| 033000056 | Sub-project A4 - College Park Improvements | Huffhines Creek; Replaces undersized existing 24" RCP with 450 LF of 42" RCP, replaces existing 39" RCP with 130 LF of 4-ft by 4-ft RCBC, replaces existing 42" RCP with 180 LF of 6-ft by 4-ft RCBC, and replaces existing 48" RCP with 310 LF of 8-ft by 5-ft RCBC, 330 LF of 9-ft by 5-ft RCBC, and 470 LF of 10-ft by 5-ft RCBC. Lastly, 40 LF of new inlet will be included. The proposed improvements will tie into existing 60" RCP at Spring Valley Road and the proposed Glenville Drive Bypass (Sub-project A2) via a large junction box. | 03000013, 030000014, 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.085 | Urban | Richardson | Richardson | N | $2,160,000 | State, Local | 0.02 | N/A | 23 | 22 | 86 | 0 | 0 | 38 | 3.37 | 0.00 |
| 033000057 | Sub-project A5 - Annapolis Drive Improvements | Huffhines Creek; Replaces the undersized existing 36" RCP system with 5-ft by 4-ft RCBC and 4-ft by 3-ft RCBC. 60 LF of new inlet will be added. The improved system will outfall into the proposed Glenville Drive Bypass (Sub-project A2) on Spring Valley Road | 03000013, 030000014, 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.060 | Urban | Richardson | Richardson | N | $1,190,000 | State, Local | 0.02 | N/A | 10 | 10 | 38 | 0 | 0 | 29 | 3.12 | 0.00 |
| 033000058 | Sub-project A7 - Improvements along Windsong Trail | Huffhines Creek; Replaces existing 42", 48", and 54" RCP with 42 LF of 4-ft by 7-ft RCBC, 820 LF of 5-ft by 7-ft RCBC, 710 LF of 5-ft by 9-ft RCBC, and 90 LF of 6-ft by 10-ft RCBC. 40 LF of new inlet will be added. | 03000013, 030000014, 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.178 | Urban | Richardson | Richardson | N | $2,150,000 | State, Local | 0.05 | N/A | 43 | 42 | 525 | 0 | 0 | 83 | 7.55 | 3.13 |
| 033000059 | Sub-project B3 - Midway, Coral, Surf, and Parcific Cul-de-Sac Improvements | Huffhines Creek; Replaces the existing storm sewer at Midway, Coral, Surf, and Parcific Cul-de-Sacs with larger culverts and constructs 30 LF of inlets. 15" RCPs will be replaced by 170 LF of 36" RCP and 310 LF of 3-ft by 2-ft RCB; 33", 36", and 42" RCP will be replaced by 475 LF of 6-ft by 4-ft RCBC. | 03000013, 030000014, 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.156 | Urban | Richardson | Richardson | N | $500,000 | State, Local | 0.04 | N/A | 22 | 19 | 70 | 0 | 0 | 67 | 5.31 | 0.40 |
| 033000060 | Sub-project C3 - Spring Valley at Towne House Lane | Huffhines Creek; replaces the existing 18" RCP with 60 LF of 4-ft by 3-ft RCBC and 290 LF of 6-ft by 3-ft RCBC. 30 LF of new inlet will be added. | 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.092 | Urban | Richardson | Richardson | N | $200,000 | State, Local | 0.02 | N/A | 38 | 38 | 154 | 0 | 0 | 20 | 2.73 | 0.07 |
| 033000061 | Sub-project D1 - Glenville Drive Improvements at Pacific Drive | Huffhines Creek; This proposal replaces undersized existing storm sewer; constructs an extension, and includes 60 LF of inlet to alleviate flooding along Pacific Drive and Glenville Drive. This alternatives includes 310 LF of new 8-ft by 4-ft RCBC, 300 LF of new 8-ft by 5-ft RCBC, replaces existing 30" RCP with 270 LF of 8-ft by 5-ft RCBC, and replaces 36" RCP with 240 LF of 9-ft by 5-ft RCBC along Glenville Drive. | 03000013, 030000014, 03000031, 03000032 | Dallas | 120301060501 | Huffhines Creek | Infrastructure (channels, ditches, ponds, pipes, etc.) | 0.337 | Urban | Richardson | Richardson | N | $2,170,000 | State, Local | 0.13 | N/A | 42 | 31 | 653 | 0 | 0 | 78 | 7.22 | 1.66 |

| | | Reduction in Flood Risk | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FMP ID (cont.) | FMP Name (cont.) | Number of structures with reduced 100yr (1% annual chance) Flood risk | Number of structures removed from 100yr (1% annual chance) Flood risk | Number of structures removed from 500yr (0.2% annual chance) Flood risk | Residential structures removed from 100yr (1% annual chance) Flood risk | Estimated Population removed from 100yr (1% annual chance) Flood risk | Critical facilities removed from 100yr (1% annual chance) Flood risk (#) | Number of low water crossings removed from 100yr (1% annual chance) Flood risk (#) | Estimated reduction in road closure occurrences | Estimated length of roads removed from 100yr flood risk (Miles) | Estimated farm & ranch land removed from 100yr flood risk (acres) | Estimated reduction in fatalities (if available) | Estimated reduction in injuries (if available) | Pre-Project Level-of-Service | Post-Project Level-of-Service | Cost/ Structure removed | Percent Nature-based Solution (by cost) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | Social Vulnerability Index (SVI) | Water Supply Benefit (Y/N) | Traffic Count for Low Water Crossings | BCR |
| 033000007 | Spring Meadows Estates Detention Pond Design | 9 | 9 | N/A | 9 | 18 | 0 | 0 | N/A | 0.34 | 0.00 | | | <2 yr | 100-yr | $208,000 | 0% | N | N | 0.15 | N | | |
| 033000008 | West Irving Creek Phases 2, 3, and 4 | 6 | 240 | N/A | 217 | 1,073 | -2 | -3 | 44 | 5.01 | 0.00 | | | 2-yr | 100-yr | $455,000 | 0% | N | N | 0.78 | N | | |
| 033000016 | Arlington VC(A)-1 Drainage and Erosion Improvements | 21 | 72 | N/A | 65 | 290 | 0 | 0 | 3 | 0.86 | 0.00 | | | <2-yr | 100-yr | $40,000 | 15% | N | N | 0.65 | N | | |
| 033000030 | Lancaster/Foch Area Mitigation | 15 | 19 | | 2 | 808 | 0 | 0 | 1 | 0.74 | 0.00 | | | < 1-yr | 100-yr | $5,885,000 | 0% | N | N | 0.06 | N | | |
| 033000031 | Linwood Park Flood Mitigation (Western Arlington Heights) | 72 | 6 | | 3 | 1,026 | 0 | 0 | 0 | 0.14 | 0.00 | | | < 1-yr | 100-yr | $16,841,000 | 0% | N | N | 0.17 | N | | |
| 033000032 | Zoo Creek Storm Drain Flood Mitigation (Sandage) | 257 | 49 | N/A | 43 | 121 | 0 | 0 | 8 | 0.42 | 0.00 | 0 | 0 | 1-yr | 5-yr | $442,000 | 0% | N | N | 0.57 | N | | |
| 033000033 | Sunnyvale Urban Flooding Reduction Improvements - Area 1 | 0 | 14 | N/A | 15 | 844 | 1 | 0 | 6 | 0.32 | 0.00 | | | <100-yr | 100-yr | $304,000 | 0% | N | N | 0.24 | N | | |
| 033000036 | Sunnyvale Urban Flooding Reduction Improvements - Area 2 | 0 | 32 | N/A | 32 | 113 | 1 | 0 | 7 | 0.80 | 0.00 | | | <100-yr | 100-yr | $178,000 | 0% | N | N | 0.24 | N | | |
| 033000037 | Project 1 - Point North Parkway System | 4 | 0 | N/A | 0 | 17 | 0 | 0 | 2 | 0.96 | 0.00 | | | 10-yr | 100-yr | $218,000 | 0% | N | N | 0.39 | N | | |
| 033000038 | Project 4 - Big Horn Lane/Canyon Creek Drive system | 10 | 3 | N/A | 3 | 8 | 0 | 0 | 3 | 0.16 | 0.00 | | | 5-yr | 100-yr | $56,000 | 0% | N | N | 0.39 | N | | |
| 033000039 | Project 6 - Valley Forge Street System | 11 | 5 | N/A | 4 | 18 | 0 | 0 | 3 | 0.43 | 0.00 | | | 10-yr | 100-yr | $62,000 | 0% | N | N | 0.13 | N | | |
| 033000040 | Project 8 - Lower Canyon Creek Drive System | 14 | 9 | N/A | 9 | 30 | 0 | 0 | 1 | 0.59 | 0.00 | | | 25-yr | 100-yr | $95,000 | 0% | N | N | 0.04 | N | | |
| 033000041 | Project 9 - Grandview Drive System | 10 | 5 | N/A | 4 | 12 | 0 | 0 | 2 | 0.23 | 0.00 | | | 5-yr | 100-yr | $69,000 | 0% | N | N | 0.04 | N | | |
| 033000042 | Project 16 - Valley Glen drive System | 9 | 2 | N/A | 2 | 14 | 0 | 0 | 2 | 0.33 | 0.00 | | | 10-yr | 100-yr | $149,000 | 0% | N | N | 0.03 | N | | |
| 033000043 | Project 19 – Pebblebrook Circle System | 3 | 1 | N/A | 1 | 3 | 0 | 0 | 2 | 0.15 | 0.00 | | | 25-yr | 100-yr | $153,000 | 0% | N | N | 0.04 | N | | |
| 033000044 | Project 2 – Campbell Road System | 10 | 6 | N/A | 1 | 60 | 0 | 0 | 1 | 0.24 | 0.00 | | | 10-yr | 100-yr | $120,000 | 0% | N | N | 0.34 | N | | |
| 033000045 | Project 6 – Wisteria Way Circle at Timberlake Circle | 30 | 10 | N/A | 5 | 16 | 0 | 0 | 1 | 0.51 | 0.00 | | | 2-yr | 100-yr | $60,000 | 0% | N | N | 0.57 | N | | |
| 033000046 | Project 14 – Ridgeway Circle and Ridgeway Drive System | 34 | 2 | N/A | 2 | 16 | 0 | 0 | 3 | 0.67 | 0.00 | | | 50-yr | 100-yr | $28,000 | 0% | N | N | 0.63 | N | | |
| 033000047 | Project 15 – James Drive and Weatherred Drive System | 32 | 17 | N/A | 11 | 35 | 0 | 0 | 4 | 0.76 | 0.00 | | | 5-yr | 100-yr | $52,000 | 0% | Y | N | 0.57 | N | | |
| 033000048 | Project 25 – Improvements Within Lindale Branch Basin | 169 | 121 | N/A | 48 | 1,504 | 1 | 0 | 7 | 5.20 | 0.00 | | | 2-yr | 100-yr | $54,000 | 0% | N | N | 0.55 | N | | |
| 033000049 | 10' X 4.5' Culvert at Glenville Drive | 1 | 0 | N/A | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | | | 5-yr | 50-yr | N/A | 0% | N | N | 0.35 | N | | |
| 033000050 | 2-9' X 7' Culverts Plano Road | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 2 | 0.13 | 0.00 | | | 10-yr | 100-yr | N/A | 0% | N | N | 0.35 | N | | |
| 033000051 | 10' X 8' Culvert at St Johns Drive | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | | | 5-yr | 50-yr | N/A | 0% | N | N | 0.10 | N | | |
| 033000052 | 3-10' X 8' Culverts at Yale Blvd. | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 2 | 0.12 | 0.00 | | | 50-yr | 100-yr | N/A | 0% | Y | N | 0.10 | N | | |
| 033000053 | Sub-project A1 - Glenville Drive/College Park Area Improvements | 186 | 100 | N/A | 95 | 624 | 0 | 0 | 4 | 0.60 | 0.28 | | | N/A | 100-yr | $10,000 | 0% | Y | N | 0.32 | N | | |
| 033000054 | Sub-project A2 - Improvements along Glenville Drive | 28 | 15 | N/A | 13 | 405 | 0 | 0 | 3 | 0.09 | 0.97 | | | 2-yr | 100-yr | $197,000 | 0% | Y | N | 0.32 | N | | |
| 033000055 | Sub-project A3 - College Park Bypass | 71 | 38 | N/A | 35 | 492 | 0 | 0 | 4 | 0.09 | 0.97 | | | 2-yr | 100-yr | $91,000 | 0% | Y | N | 0.31 | N | | |
| 033000056 | Sub-project A4 - College Park Improvements | 23 | 16 | N/A | 15 | 56 | 0 | 0 | 1 | 0.01 | 0.00 | | | < 2-yr | 100-yr | $135,000 | 0% | Y | N | 0.35 | N | | |
| 033000057 | Sub-project A5 - Annapolis Drive Improvements | 10 | 2 | N/A | 2 | 7 | 0 | 0 | 0 | 0.00 | 0.00 | | | 2-yr | 100-yr | $595,000 | 0% | Y | N | 0.35 | N | | |
| 033000058 | Sub-project A7 - Improvements along Windsong Trail | 43 | 42 | N/A | 41 | 520 | 0 | 0 | 26 | 1.90 | 0.00 | | | 2-yr | 100-yr | $51,000 | 0% | Y | N | 0.35 | N | | |
| 033000059 | Sub-project B3 - Midway, Coral, Surf, and Parcific Cul-de-Sac Improvements | 22 | 17 | N/A | 16 | 40 | 0 | 0 | 14 | 1.26 | 0.00 | | | 5-yr | 100-yr | $29,000 | 0% | Y | N | 0.35 | N | | |
| 033000060 | Sub-project C3 - Spring Valley at Towne House Lane | 38 | 27 | N/A | 27 | 108 | 0 | 0 | 3 | 0.24 | 0.01 | | | 5-yr | 100-yr | $7,000 | 0% | Y | N | 0.32 | N | | |
| 033000061 | Sub-project D1 - Glenville Drive Improvements at Pacific Drive | 42 | 7 | N/A | 5 | 367 | 0 | 0 | 1 | 0.01 | 0.46 | | | 2-yr | 100-yr | $310,000 | 0% | N | N | 0.27 | N | | |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG**

| FMS ID | FMS Name | Description | Associated Goals (ID) | Counties | HUC10s | Watersheds | Strategy Type | Strategy Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa Other) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Strategy Cost ($) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000001 | Lavon Warning System | Expand the Early Warning Sirens and Local Warning System to notify new populations of impending severe weather or imminent hazards to reduce the loss of life and mitigate the effects of the hazards | 03000001, 03000002 | Collin | 1203010603, 1203010604 | Price Creek-Lavon Lake, Camp Creek-Lake Ray Hubbard | Flood Measurement and Warning | 3.03 | Riverine | Lavon | Lavon | N | $250,000 | |
| 032000002 | Lindsay Flood Warning and Public Safety Improvements | Citywide "reverse 911" to enable local emergency officials to notify emergency information pertaining to flood advisories, flood warnings, and flood evacuations. | 03000001, 03000002 | Cooke | 1113020107, 1203010304, 1203010301 | Montague Creek-Elm Fork Trinity River, Scott Creek-Elm Fork Trinity River | Flood Measurement and Warning | 2.20 | Riverine | Lindsay | Lindsay | N | $250,000 | |
| 032000003 | Addition of Low Water Crossing Signs and Gates - City of Irving | Identify and add low water crossing signs and gates to low water crossing areas as described in The Road to The Future Report. | 03000001, 03000002, 03000003, 03000004 | Dallas | 1203010501, 1203010207, 1203010310 | Big Bear Creek, Little Bear Creek, Estelle Creek-Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Flood Measurement and Warning | 67.72 | Riverine | Irving | Irving | N | $250,000 | |
| 032000004 | Richardson Flood Warning and Public Safety Improvements | Monitor streams and waterways for potential flooding problems including installation of gauges, sensors, and precipitation measuring sites. | 03000001, 03000002 | Dallas | 1203010501, 1203010605, 1203010604 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, Muddy Creek-Lake Ray Hubbard, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Duck Creek | Flood Measurement and Warning | 28.57 | Riverine | Richardson | Richardson | N | $250,000 | |
| 032000005 | Timber Creek Flood Warning System Installation | Purchase and Install Flood Warning Systems in Key Areas Along Timber Creek | 03000001, 03000002 | Denton | 1203010310 | Timber Creek | Flood Measurement and Warning | 3.23 | Riverine | Lewisville | Lewisville | N | $250,000 | |
| 032000006 | Houston County Stream and Rain Gauge Installation | Install stream and rain gauges in flood prone areas and waterways as part of new alert notification system | 03000001, 03000002 | Houston | 1203020207, 1202000105, 1202000201, 1203020208, 1202000204, 1203020203, 1203020104, 1203020206, 1202000202, 1203020107, 1202000107 | Montague Creek-Elm Fork Trinity River, Scott Creek-Elm Fork Trinity River | Flood Measurement and Warning | 1,231.69 | Riverine | Houston County | Houston County | N | $250,000 | |
| 032000007 | Hunt County Flood Warning and Public Safety | Adopt and Promote the program of "Turn Around Don't Drown Campaign." Implement early warning program. | 03000001, 03000002, 03000003, 03000004 | Hunt | 1201000103, 1201000104, 1114030101, 1201000101, 1201000102, 1203010701, 1114030102, 1201000301, 1203010601 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Flood Measurement and Warning | 879.30 | Riverine | Hunt County | Hunt County | N | $250,000 | |
| 032000008 | City of Kemp Siren Notification System | Install siren notification system for disasters, including dam failure of Kemp Lake Dam | 03000001, 03000002 | Kaufman | 1203010702, 1203010703, 1203010701 | Lacy Fork-Cedar Creek Reservoir, Little Cottonwood Creek-Kings Creek, Town of Kemp-Cedar Creek Reservoir, Kemp Lake-Cedar Creek, Persimmon Branch-Cedar Creek Reservoir | Flood Measurement and Warning | 2.51 | Riverine | Kemp | Kemp | N | $250,000 | |
| 032000009 | Leon County Local Flood Warning System | This action proposes a local flood warning system to reduce the potential impacts of future flood events | 03000001, 03000002 | Leon | 1207010304, 1203020204, 1203020106, 1203020202, 1207010305, 1203020203, 1203020104, 1203020107, 1203020201, 1203020105, 1207010303 | Bear Creek-Indian Creek, Arnold Creek, High Point Creek | Flood Measurement and Warning | 1,076.20 | Riverine | Leon County | Leon County | N | $250,000 | |
| 032000010 | Rockwall County Warning Signs and Flood Control Gates | Install automatic flood warning gates to prevent access into flooded areas. Install warning signs and flood control | 03000001, 03000002, 03000003, 03000004 | Rockwall | 1201000103, 1203010605, 1203010701, 1203010604 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Camp Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Long Branch-Buffalo Creek, Upper Big Brushy Creek, High Point Creek | Flood Measurement and Warning | 148.04 | Riverine | Rockwall County | Rockwall County | N | $250,000 | |
| 032000011 | Chambers Creek Stream Flow Monitoring System | Implement a Stream Flow Monitoring system that will allow for historical tracking and constant monitoring of water levels to assist with early warnings to residents | 03000001, 03000002 | Tarrant | 1203010204 | Village Creek-Lake Arlington | Flood Measurement and Warning | 1.75 | Riverine | Everman | Everman | N | $250,000 | |
| 032000012 | Creek Level Monitoring Systems and Weather Stations Installation | Install creek level monitoring systems and weather stations | 03000001, 03000002 | Tarrant | 1203010204, 1203010206 | Rush Creek-Village Creek, Headwaters Mountain Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Flood Measurement and Warning | 36.49 | Riverine | Mansfield | Mansfield | N | $250,000 | |
| 032000013 | Dalworthington Flood Warning System | Purchase and install a technological based high water detection system for low water crossings to mitigate the hazards when the location floods | 03000001, 03000002, 03000003, 03000004 | Tarrant | 1203010204 | Rush Creek-Village Creek | Flood Measurement and Warning | 1.83 | Riverine | Dalworthington | Dalworthington | N | $300,000 | |
| 032000014 | Colleyville Flood Warning System | Enhance high water warning system by adding automatic gates on the streets that normally flood | 03000001, 03000002, 03000003, 03000004 | Tarrant | 1203010207, 1203010205 | Big Bear Creek, Little Bear Creek, Headwaters Walker Branch | Flood Measurement and Warning | 13.17 | Riverine | Colleyville | Colleyville | N | $250,000 | |
| 032000015 | Haslet Flood Warning System | Install flood warning devices to low water crossing. | 03000001, 03000002, 03000003, 03000004 | Tarrant | 1203010207, 1203010205, 1203010403 | Big Bear Creek, Whites Branch-Big Fossil Creek, Headwaters Elizabeth Creek, Henrietta Creek | Flood Measurement and Warning | 10.49 | Riverine | Haslet | Haslet | N | $250,000 | |
| 032000016 | Additional Rain/Stream Gauges for 13 locations | West Fork Trinity River at MacArthur Blvd, Bowman Creek at Mirabella Blvd, Cottonwood Creek at Robinson Road, Johnson Creek at Duncan Perry Road, Foster Branch at Seeton Road, Mountain Creek at county road FM 661, Carrier Parkway underneath I-20, Robinson | 03000001, 03000002 | Dallas | 1203010207, 1203010206 | Big Bear Creek, Whites Branch-Big Fossil Creek, Headwaters Elizabeth Creek, Henrietta Creek | Flood Measurement and Warning | 80.96 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 032000017 | Additional Low Water Crossing Flashing Lights and Automated Gates | Duncan Perry Road between Ave K and Sherwood Drive, Riverside Pkwy LWC (lights already in place need gates added), SW 3rd from Phillips Ct to Dickey Road (gates being added in September 2021) | 03000003, 03000004 | Dallas | 1203010207, 1203010206 | Big Bear Creek, Whites Branch-Big Fossil Creek, Headwaters Elizabeth Creek, Henrietta Creek | Flood Measurement and Warning | 80.96 | Riverine | Grand Prairie | Grand Prairie | N | $250,000 | |
| 032000018 | Grayson County Flood Warning and Public Safety Improvements | Create improved gauge notification system. Increased Public Awareness prior to occurrences and during flooding. | 03000001, 03000002 | Grayson | 1114010101, 1203010602, 1203010303, 1113021004, 1113021002, 1113021003, 1114010102, 1114010105, 1203010307, 1203010603, 1203010302, 1114010104, 1113021005, 1203010601 | Rush Creek-Village Creek, Headwaters Mountain Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Flood Measurement and Warning | 976.48 | Riverine | Grayson County | Grayson County | N | $250,000 | |
| 032000019 | Dallas County Floodplain Management | Manage the Floodplain beyond the minimum requirements. This action will include developing an incentive program for building above the required freeboard minimum | 03000005, 03000006 | Dallas | 1203010501, 1203010605, 1203010207, 1203010502, 1203010903, 1203010604, 1203010310, 1203010503, 1203010206, 1203010403 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Regulatory and Guidance | 904.72 | Riverine | Dallas County | Dallas County | N | $1,000,000 | |
| 032000020 | Anderson County Structure Permitting Requirement Update | Increase freeboard requirements for permitting structures in the SFHA; Adopt a "no-rise" in BFE in the 100-year floodplain; Update local flood ordinance to prohibit granting of variance in SFHA | 03000011, 03000012, 03000025, 03000026 | Anderson | 1203020103, 1202000105, 1203020104, 1203010505, 1203020107, 1202000103, 1202000104, 1202000107, 1203020102 | | Regulatory and Guidance | 1,073.46 | Riverine | Anderson County | Anderson County | N | $100,000 | |
| 032000021 | Bynum Stormwater Management Policy Updates | Update storm water management policies. Require approved site control plans and storm water runoff plans before long-duration construction projects are permitted to begin. | 03000025, 03000026 | Hill | 1203010801 | Headwaters Ash Creek, Bynum Creek | Regulatory and Guidance | 0.14 | Riverine | Bynum | Bynum | N | $100,000 | |
| 032000022 | Flood Protection Ordinance Updates | Develop and Implement a City and Town flood protection ordinance | 03000005, 03000006 | Denton | 1203010308, 1203010309, 1203010307, 1203010310 | Rush Creek-Village Creek, Headwaters Mountain Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Regulatory and Guidance | 56.44 | Riverine | Corinth, Hickory Creek, Lake Dallas, Little Elm, Shady Shores, The Colony | Corinth, Hickory Creek, Lake Dallas, Little Elm, Shady Shores, The Colony | N | $100,000 | |
| 032000023 | Hill County Flooding Regulations Update | Catalog, evaluate, and update any floodplain regulations within the City to comply with the latest FEMA regulations. | 03000011, 03000012, 03000025, 03000026 | Hill | 1203010901, 1206020206, 1206020203, 1203010802, 1207010301, 1203010803, 1203010902, 1203010801, 1206020204, 1206020207, 1206020202, 1206020205 | Headwaters Ash Creek, Bynum Creek | Regulatory and Guidance | 981.88 | Riverine | Hill County | Hill County | N | $100,000 | |
| 032000024 | Freestone County Flood Damage Prevention Ordinance | Develop and Implement a Flood Damage Prevention Ordinance | 03000011, 03000012, 03000025, 03000026 | Freestone | 1203020103, 1203020106, 1203020101, 1203020104, 1203010505, 1203020107, 1203010804, 1203020105, 1207010303 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Regulatory and Guidance | 888.16 | Riverine | Freestone County | Freestone County | N | $100,000 | |
| 032000025 | Caney City Floodproofing Ordinances | Implement ordinances to ensure new housing developments meet current floodproofing, as well as ensure that critical facilities owned by jurisdiction are protected from flood. | 03000025, 03000026 | Henderson | 1203010703 | Clear Creek-Cedar Creek Reservoir, Caney Creek-Cedar Creek Reservoir | Regulatory and Guidance | 1.12 | Riverine | Caney City | Caney City | N | $100,000 | |
| 032000026 | Leon County Floodplain Construction Restrictions Re-Evaluation | This action proposes a re-evaluation of all existing floodplain construction restrictions to identify strengths and weaknesses in order to reduce future damages during flood events | 03000025, 03000026 | Leon | 1207010304, 1203020204, 1203020106, 1203020202, 1207010305, 1203020203, 1203020104, 1203020107, 1203020201, 1203020105, 1207010303 | Clear Creek-Cedar Creek Reservoir, Caney Creek-Cedar Creek Reservoir | Regulatory and Guidance | 1,075.85 | Riverine | Leon County | Leon County | N | $100,000 | |
| 032000027 | Rockwall County Flood Prevention Ordinance | Update Flood Prevention ordinance, adopting a "no-rise" in Base Flood Elevation in the 100-year floodplain | 03000011, 03000012, 03000025, 03000026 | Rockwall | 1201000103, 1203010605, 1203010701, 1203010604 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Camp Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Long Branch-Buffalo Creek, Upper Big Brushy Creek, High Point Creek | Regulatory and Guidance | 148.04 | Riverine | Rockwall County | Rockwall County | N | $100,000 | |
| 032000028 | San Jacinto County Ordinance to Control Location of Development | Strengthen ordinance(s)/code(s) to control location of development, especially in low lying flood hazard areas | 03000021, 03000022, 03000025, 03000026 | San Jacinto | 1203020211, 1204010303, 1203020212 | McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Little Creek-Big Creek, Big Creek-Trinity River | Regulatory and Guidance | 9.54 | Riverine | San Jacinto County, Shepherd, Coldspring, Point Blank | San Jacinto County, Shepherd, Coldspring, Point Blank | N | $100,000 | |
| 032000029 | Montague County Floodplain Policy Update | Increase freeboard requirements for permitting structures in the SFHA; Update local flood ordinance to prohibit granting of variance in SFHA | 03000011, 03000012, 03000021, 03000022, 03000025, 03000026 | Montague | 1113020905, 1203010305, 1203010401, 1203010105, 1113020107, 1203010104, 1203010301, 1113020102, 1113020105 | McGee Creek-Lake Livingston, Wolf Creek-Lake Livingston, Little Creek-Big Creek, Big Creek-Trinity River | Regulatory and Guidance | 933.20 | Riverine | Montague County | Montague County | N | $100,000 | |
| 032000030 | Town of Westlake's Floodplain Mitigation Ordinances Review | Review and enhance the Town of Westlake's floodplain mitigation ordinances and policies as needed | 03000025, 03000026 | Tarrant | 1203010403 | Marshall Branch-Grapevine Lake | Regulatory and Guidance | 7.06 | Riverine | Westlake | Westlake | N | $100,000 | |
| 032000031 | Wills Point Structure Permitting Requirement Update | Increase freeboard requirements for permitting structures in the SFHA; Adopt a "no-rise" in BFE in the 100-year floodplain; Update local flood ordinance | 03000011, 03000012, 03000025, 03000026 | Van Zandt | 1203010702, 1201000105 | Allen Creek-Cedar Creek | Regulatory and Guidance | 1.66 | Riverine | Wills Point | Wills Point | N | $100,000 | |
| 032000032 | Wise County Storm Water Management Plan | Create a Storm water Management Plan | 03000025, 03000026 | Wise | 1203010308, 1203010305, 1203010401, 1203010105, 1203010402, 1203010104, 1203010202, 1203010106, 1203010403 | Marshall Branch-Grapevine Lake | Regulatory and Guidance | 919.27 | Riverine | Wise County, Alvord | Wise County, Alvord | N | $300,000 | |
| 032000033 | Valley View Floodplain Regulation Updates | Update local ordinances to include regulation of floodplain so that the community may participate in NFIP program. | 03000011, 03000012, 03000025, 03000026 | Cooke | 1203010304 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Regulatory and Guidance | 2.09 | Riverine | Valley View | Valley View | N | $100,000 | |
| 032000034 | City of Sachse Parks Construction Along Low Lying Areas | Establish city parks along low-lying areas | 03000021, 03000022, 03000027, 03000028 | Dallas | 1203010604 | Muddy Creek-Lake Ray Hubbard, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Other | 9.88 | Riverine | Sachse | Sachse | N | $1,000,000 | |
| 032000035 | Carrollton Targeted Flood Remediation | Plan for and establish City-owned stand-by contracts for targeted flood remediation of private homes if authorized by City Administration. | 03000013, 03000014, 03000025, 03000026 | Dallas | 1203010501, 1203010310, 1203010403 | Prairie Creek-Elm Fork Trinity River, Timber Creek, Indian Creek-Elm Fork Trinity River, Grapevine Creek-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River, Cottonwood Branch-Denton Creek, Headwaters White Rock Creek | Property Acquisition and Structural Elevation | 37.26 | Riverine | Carrollton | Carrollton | N | $5,000,000 | |
| 032000036 | Sunnyvale Floodplain Preservation Program | Restrict future development in high risk areas. | 03000025, 03000026 | Dallas | 1203010605, 1203010604 | Rush Creek-Lake Ray Hubbard, Duck Creek, North Mesquite Creek-East Fork Trinity River | Regulatory and Guidance | 16.72 | Riverine | Sunnyvale | Sunnyvale | N | $100,000 | |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG (cont.)**

| FMS ID (cont.) | FMS Name (cont.) | Area in 100yr (1% annual chance) Floodplain | Area in 500yr (0.2% annual chance) Floodplain | Estimated number of structures at 100yr flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Number of structures with reduced 100yr (1% annual chance) Flood risk | Number of structures removed from 100yr (1% annual chance) Flood risk | Number of structures removed from 500yr (0.2% annual chance) Flood risk | Habitable structures removed from 100yr (1% annual chance) Flood risk | Estimated Population removed from 100yr (1% annual chance) Flood risk | Critical facilities removed from 100yr (1% annual chance) Flood risk (#) | Number of low water crossings removed from 100yr (1% annual chance) Flood risk | Estimated reduction in road closure occurrences | Estimated length of roads removed from 100yr flood risk (Miles) | Estimated active farm & ranch land removed from 100yr flood risk (acres) | Estimated reduction in fatalities (if available) | Estimated reduction in injuries (if available) | Cost/ Structure removed | Consideration of Nature-based Solution (Y/N) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | Water Supply Benefit (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000001 | Lavon Warning System | 0.16 | 0.08 | 4 | 4 | 4 | 2 | 1 | | 1 | 31.52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000002 | Lindsay Flood Warning and Public Safety Improvements | 0.36 | 0.05 | 36 | 24 | 39 | 0 | 0 | | 2 | 135.68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000003 | Addition of Low Water Crossing Signs and Gates - City of Irving | 12.90 | 2.30 | 4,589 | 4,495 | 40,893 | 26 | 37 | | 84 | 1,387.41 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000004 | Richardson Flood Warning and Public Safety Improvements | 1.51 | 0.36 | 139 | 125 | 613 | 1 | 29 | | 7 | 81.45 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000005 | Timber Creek Flood Warning System Installation | 0.67 | 0.12 | 140 | 136 | 475 | 1 | 0 | | 3 | 38.14 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000006 | Houston County Stream and Rain Gauge Installation | 245.75 | 18.12 | 142 | 82 | 113 | 10 | 45 | | 110 | 4,592.96 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000007 | Hunt County Flood Warning and Public Safety | 6.29 | 0.18 | 27 | 16 | 7 | 0 | 1 | | 4 | 2,159.17 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000008 | City of Kemp Siren Notification System | 0.44 | 0.06 | 6 | 6 | 11 | 2 | 0 | | 5 | 92.65 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000009 | Leon County Local Flood Warning System | 239.24 | 18.94 | 77 | 69 | 50 | 11 | 31 | | 100 | 5,218.71 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000010 | Rockwall County Warning Signs and Flood Control Gates | 34.49 | 1.59 | 411 | 371 | 1,553 | 10 | 19 | | 34 | 4,484.99 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000011 | Chambers Creek Stream Flow Monitoring System | 0.45 | 0.05 | 272 | 225 | 1,006 | 2 | 10 | | 6 | 86.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000012 | Creek Level Monitoring Systems and Weather Stations Installation | 4.62 | 1.38 | 422 | 385 | 2,492 | 4 | 15 | | 30 | 778.52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000013 | Dalworthington Flood Warning System | 0.23 | 0.01 | 12 | 11 | 25 | 0 | 3 | | 1 | 16.49 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000014 | Colleyville Flood Warning System | 1.38 | 0.18 | 156 | 148 | 735 | 4 | 6 | | 5 | 131.85 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000015 | Haslet Flood Warning System | 1.17 | 0.22 | 39 | 31 | 103 | 1 | 6 | | 2 | 527.87 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000016 | Additional Rain/Stream Gauges for 13 locations | 26.69 | 3.30 | 442 | 338 | 3,471 | 8 | 25 | | 40 | 1,927.26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000017 | Additional Low Water Crossing Flashing Lights and Automated Gates | 26.69 | 3.30 | 442 | 338 | 3,471 | 8 | 25 | | 40 | 1,927.26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000018 | Grayson County Flood Warning and Public Safety Improvements | 68.03 | 7.23 | 436 | 376 | 541 | 12 | 50 | | 43 | 21,311.44 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000019 | Dallas County Floodplain Management | 211.70 | 24.78 | 22,225 | 20,521 | 181,697 | 216 | 499 | | 791 | 31,557.68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000020 | Anderson County Structure Permitting Requirement Update | 184.20 | 11.63 | 667 | 416 | 1,408 | 11 | 32 | | 73 | 36,103.84 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000021 | Bynum Stormwater Management Policy Updates | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | | 0 | 0.56 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000022 | Flood Protection Ordinance Updates | 19.53 | 2.30 | 381 | 289 | 1,062 | 12 | 2 | | 31 | 1,613.81 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000023 | Hill County Flooding Regulations Update | 59.02 | 8.37 | 127 | 83 | 109 | 4 | 26 | | 24 | 24,901.61 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000024 | Freestone County Flood Damage Prevention Ordinance | 233.17 | 15.29 | 557 | 237 | 389 | 13 | 31 | | 91 | 21,752.58 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000025 | Caney City Floodproofing Ordinances | 0.09 | 0.00 | 8 | 5 | 4 | 0 | 0 | | 1 | 4.06 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000026 | Leon County Floodplain Construction Restrictions Re-Evaluation | 239.10 | 18.93 | 0 | 0 | 0 | 11 | 31 | | 100 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000027 | Rockwall County Flood Prevention Ordinance | 34.49 | 1.59 | 411 | 371 | 1,553 | 10 | 19 | | 34 | 4,484.99 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000028 | San Jacinto County Ordinance to Control Location of Development | 1.88 | 0.27 | 270 | 257 | 875 | 3 | 0 | | 7 | 74.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000029 | Montague County Floodplain Policy Update | 68.97 | 7.81 | 0 | 0 | 0 | 4 | 20 | | 57 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000030 | Town of Westlake's Floodplain Mitigation Ordinances Review | 0.77 | 0.01 | 17 | 11 | 114 | 0 | 3 | | 2 | 235.65 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000031 | Wills Point Structure Permitting Requirement Update | 0.12 | 0.03 | 25 | 12 | 91 | 1 | 0 | | 1 | 24.07 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000032 | Wise County Storm Water Management Plan | 184.67 | 21.58 | 488 | 391 | 1,674 | 25 | 54 | | 100 | 20,539.79 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000033 | Valley View Floodplain Regulation Updates | 0.20 | 0.03 | 7 | 4 | 5 | 0 | 2 | | 1 | 91.72 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000034 | City of Sachse Parks Construction Along Low Lying Areas | 1.19 | 0.47 | 71 | 61 | 240 | 0 | 9 | | 4 | 253.78 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000035 | Carrollton Targeted Flood Remediation | 9.55 | 1.02 | 1,068 | 930 | 15,723 | 15 | 23 | | 48 | 617.10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000036 | Sunnyvale Floodplain Preservation Program | 3.39 | 0.53 | 54 | 48 | 164 | 1 | 4 | | 6 | 1,002.14 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG**

| FMS ID | FMS Name | Description | Associated Goals (ID) | Counties | HUC10s | Watersheds | Strategy Type | Strategy Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa Other) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Strategy Cost ($) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000037 | Itasca Zoning Regulations and Land Use Planning Mechanisms | Establish zoning regulations to prohibit residential construction in flood prone areas. Implement strategic land-use planning mechanisms to ensure flood-resistant development occurs in flood-prone areas | 03000025, 03000026 | Hill | 1203010901, 1206020205 | Island Creek | Regulatory and Guidance | 0.69 | Riverine | Itasca | Itasca | N | $100,000 | |
| 032000038 | Kaufman County Regulation Standards to Protect Open Space Flood-Prone Areas | Conduct program in conjunction with local communities to incorporate regulatory standards to protect open space flood-prone areas | 03000021, 03000022, 03000025, 03000026, 03000027, 03000028 | Kaufman | 1203010702, 1201000103, 1203010504, 1203010605, 1201000104, 1203010703, 1203010505, 1203010701, 1201000105, 1203010502, 1203010604 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Regulatory and Guidance | 804.40 | Riverine | Kaufman County | Kaufman County | N | $100,000 | |
| 032000039 | Tarrant County Promotion of Open Space and LID | Promote the inclusion of low impact development requirements in local and regional ordinances | 03000027, 03000028 | Tarrant | 1203010201, 1203010204, 1203010207, 1203010205, 1203010202, 1203010203, 1203010310, 1203010206, 1203010106, 1203010403 | Village Creek-Lake Arlington | Regulatory and Guidance | 899.55 | Riverine | North Central Texas Council of Govt | North Central Texas Council of Govt | N | $500,000 | |
| 032000040 | Itasca Land Use Planning Mechanisms | Implement strategic land-use planning mechanisms to ensure flood-resistant development occurs in flood-prone areas | 03000021, 03000022, 03000025, 03000026, 03000027, 03000028 | Hill | 1203010901, 1206020205 | Island Creek | Regulatory and Guidance | 0.69 | Riverine | Itasca | Itasca | N | $100,000 | |
| 032000041 | Dallas County Land Use Program | Continue to develop and maintain special use parks and green belt areas as flooding mitigation strategies & further prohibiting development in the floodplain. | 03000021, 03000022, 03000025, 03000026, 03000027, 03000028 | Dallas | 1203010501, 1203010605, 1203010604 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, Muddy Creek-Lake Ray Hubbard, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Duck Creek | Regulatory and Guidance | 28.57 | Riverine | Richardson | Richardson | N | $100,000 | |
| 032000042 | Houston County Maintenance Program | Develop a maintenance program to clear debris from bridges, box culverts, and drainage systems throughout. Implement program to clear debris from flood-prone areas, bridges, drains and culverts to prevent overtopping and backup during flash floods | 03000029, 03000030 | Houston | 1203020207, 1202000105, 1202000201, 1203020208, 1202000204, 1203020203, 1203020104, 1203020206, 1202000202, 1203020107, 1202000107 | Island Creek | Other | 1,231.76 | Riverine | Houston County | Houston County | N | $100,000 | |
| 032000043 | Kaufman County Agreement to Monitor High Hazard Dams | Develop a mutual aid agreement with the City of Terrell, City of Kemp, City of Kaufman to monitor High hazard dams with automated monitor to minimize potential dam failure of the structure | 03000001, 03000002, 03000025, 03000026 | Kaufman | 1203010702, 1201000103, 1203010504, 1203010605, 1201000104, 1203010703, 1203010505, 1203010701, 1201000105, 1203010502, 1203010604 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Other | 804.43 | Riverine | Kaufman County, Terrell, Kemp, Kaufman | Kaufman County, Terrell, Kemp, Kaufman | N | $300,000 | |
| 032000044 | Rowlett Creek Tributary Maintenance Program | Develop a maintenance program including routine channel maintenance and erosion control for Rowlett Creek Tributary (Stream 2D13). Keep creek and inlets clear of debris and overgrown vegetation. | 03000031, 03000032 | Dallas | 1203010501, 1203010605, 1203010604 | White Rock Creek-White Rock Lake, Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek | Other | 56.69 | Riverine | Sachse | Sachse | N | $250,000 | |
| 032000045 | Addison-Carrollton Debris Cleaning Program | Develop and implement a program for clearing debris from bridges, drains and culverts. | 03000031, 03000032 | Dallas | 1203010501, 1203010310, 1203010403 | Prairie Creek-Elm Fork Trinity River, Timber Creek, Indian Creek-Elm Fork Trinity River, Grapevine Creek-Elm Fork Trinity River, Farmers Branch-Elm Fork Trinity River, Cottonwood Branch-Denton Creek, Headwaters White Rock Creek, Floyd Branch-White Rock Creek | Other | 41.60 | Riverine | Addison, Carrollton | Addison, Carrollton | N | $100,000 | |
| 032000046 | Navarro County Waterways Clearing | Develop a maintenance program to clear waterways of debris and prevent further collection of debris in waterways | 03000031, 03000032 | Navarro | 1203010802, 1203010904, 1203010804 | Cedar Creek-Richland Creek, Grape Creek-Richland Creek, Crab Creek, Briar Creek, Elm Creek-Post Oak Creek, Cedar Creek-Chambers Creek | Other | 23.90 | Riverine | Corsicana | Corsicana | N | $75,000 | |
| 032000047 | Weatherford Biannual Dam Inspection Program | Create and implement a biannual inspection program to inspect the city-owned dams to help prevent dam failure | 03000033, 03000034 | Parker | 1203010201, 1206020112, 1203010202 | Silver Creek-Lake Worth, Clear Fork Trinity River-Lake Weatherford, Squaw Creek-Clear Fork Trinity River, Underwood Branch-Willow Creek, Brogden Branch-Town Creek, South Fork | Other | 26.14 | Riverine | Weatherford | Weatherford | N | $50,000 | |
| 032000048 | Richland Hills Semi-Annual Levee Inspections | Prepare an inspection program of the levee to look for any maintenance problems or levee failure issues | 03000033, 03000034 | Tarrant | 1203010205 | Whites Branch-Big Fossil Creek, Headwaters Walker Branch, Walker Branch-West Fork Trinity River | Other | 3.09 | Riverine | Richland Hills | Richland Hills | N | $50,000 | |
| 032000049 | Rowlett Creek Tributary Maintenance Program | Routine channel maintenance and erosion control for Rowlett Creek Tributary (Stream 2D13). Keep creek and inlets clear of debris and overgrown vegetation. | 03000031, 03000032 | Collin , Dallas | 1203010604 | Muddy Creek-Lake Ray Hubbard, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Other | 9.88 | Riverine | Sachse | Sachse | N | $250,000 | |
| 032000050 | Hazard Hardening Retrofit for Polk County Facilities | Flood-proofing, impact resistant windows, storm shutters, roof straps, structural bracing, low-flow plumbing fixtures, roll-up door reinforcement, grounding systems, surge-protection, data back-up systems, plumbing reinforcement and insulation, heat resistant | 03000019, 03000020 | Polk | 1202000204, 1202000205, 1202000602, 1203020209, 1202000203, 1202000604, 1203020212, 1202000702 | Pine Branch-Larrison Creek, Youngs Creek | Property Acquisition and Structural Elevation | 1,112.16 | Riverine | Polk County, Corrigan, Goodrich, Livingston, Onalaska, Seven Oaks | Polk County, Corrigan, Goodrich, Livingston, Onalaska, Seven Oaks | N | $30,000,000 | |
| 032000051 | Acquire and Protect Red Oak Creek, Bentle Branch Creek, and Balcones Escarpment | Acquire areas in the floodplain and protect environmentally sensitive areas and convert them into open space land | 03000021, 03000022, 03000025, 03000026, 03000027, 03000028 | Dallas | 1203010502, 1203010903, 1203010503, 1203010206 | Low Branch-Mountain Creek, Fish Creek-Mountain Creek Lake, Headwaters Tenmile Creek, Headwaters Red Oak Creek, Headwaters Waxahachie Creek | Property Acquisition and Structural Elevation | 32.42 | Riverine | Cedar Hill | Cedar Hill | N | $5,000,000 | |
| 032000052 | Ten Mile Creek Comprehensive Loss Reduction Program | Develop a comprehensive loss reduction program, involving buy outs and relocation in areas along Ten Mile Creek to reduce losses and repetitive damages. Buyout structures that are in the floodplain. Land Acquisition for repetitive loss structures | 03000013, 03000014, 03000021, 03000022 | Dallas | 1203010501, 1203010502, 1203010503 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Headwaters Fivemile Creek, Fivemile Creek-Trinity River, Headwaters Tenmile Creek, Middle Red Oak Creek | Property Acquisition and Structural Elevation | 32.96 | Riverine | Lancaster | Lancaster | N | $5,000,000 | |
| 032000053 | Midway Property Acquisition and Elevation Program | Acquire existing homes located in the identified special flood hazard area (the 100-year floodplain). | 03000013, 03000014 | Madison | 1203020205, 1203020206 | Pine Branch-Larrison Creek, Youngs Creek | Property Acquisition and Structural Elevation | 1.24 | Riverine | Midway | Midway | N | $5,000,000 | |
| 032000054 | Montague County Property Acquisition and Land Preservation Program | Acquire and preserve open space adjacent to floodplain areas. | 03000013, 03000014, 03000021, 03000022, 03000027, 03000028 | Montague | 1113020905, 1203010305, 1203010401, 1203010105, 1113020107, 1203010104, 1203010301, 1113020102, 1113020105 | Muddy Creek-Lake Ray Hubbard, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Property Acquisition and Structural Elevation | 933.20 | Riverine | Montague County | Montague County | N | $5,000,000 | |
| 032000055 | Montague County Sewage Treatment Plants and Sewage Lift Stations Flood-Proofing Program | Flood-proof sewage treatment plants in flood hazard / low-lying areas within Region 3. Raise electrical components of sewage lift stations above the Base Flood Elevation (BFE) | 03000019, 03000020 | Montague | 1113020905, 1203010305, 1203010401, 1203010105, 1113020107, 1203010104, 1203010301, 1113020102, 1113020105 | Muddy Creek-Lake Ray Hubbard, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Property Acquisition and Structural Elevation | 933.20 | Riverine | Montague County | Montague County | N | $500,000 | |
| 032000056 | San Jacinto County Voluntary Property Acquisition & Elevation Program | Pursue voluntary acquisition projects for flood prone properties. Elevate homes in low lying or flood prone areas. | 03000013, 03000014 | San Jacinto | 1203020212 | Little Creek-Big Creek, Big Creek-Trinity River | Property Acquisition and Structural Elevation | 6.11 | Riverine | Shepherd, San Jacinto County | Shepherd, San Jacinto County | N | $5,000,000 | |
| 032000057 | Johnson County Acquisition of Flood Prone Structures | Acquire, relocate, and/or elevate flood prone structures | 03000013, 03000014 | Johnson | 1203010901, 1206020203, 1203010204, 1206020202, 1206020113, 1203010203, 1203010206, 1206020205 | Muddy Creek-Lake Ray Hubbard, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Property Acquisition and Structural Elevation | 730.85 | Riverine | Johnson County | Johnson County | N | $5,000,000 | |
| 032000058 | Acquisition of Repetitive Loss Properties in the Deep River Plantation Subdivision | Acquire repetitive flood loss properties and properties prone to flooding in the Deep River Plantation Subdivision | 03000013, 03000014 | Walker | 1203020207, 1204010101, 1203020204, 1203020205, 1203020208, 1204010303, 1203020206, 1204010102, 1204010301 | Little Creek-Big Creek, Big Creek-Trinity River | Property Acquisition and Structural Elevation | 797.70 | Riverine | Walker County | Walker County | N | $5,000,000 | |
| 032000059 | Anderson County Floodplain Acquisition and Preservation Program | Acquire and preserve open spaces adjacent to floodplain areas. | 03000013, 03000014, 03000021, 03000022, 03000027, 03000028 | Anderson | 1203020103, 1202000105, 1203020104, 1203010505, 1203020107, 1202000103, 1202000104, 1202000107, 1203020102 | | Property Acquisition and Structural Elevation | 1,073.46 | Riverine | Anderson County | Anderson County | N | $5,000,000 | |
| 032000060 | Collin County Property and Structures Buyout Program | Develop and implement a buyout program for personal properties and structures located in the floodplain | 03000013, 03000014 | Collin | 1203010501, 1201000103, 1203010602, 1203010309, 1201000102, 1203010307, 1203010603, 1203010604, 1203010310, 1203010601 | | Property Acquisition and Structural Elevation | 883.17 | Riverine | Collin County | Collin County | N | $5,000,000 | |
| 032000061 | Cooke County Acquisition of Repetitive Loss and Damaged Properties | Purchase and removal of damaged homes that are located in the floodplain. Buyout of repetitive flood loss properties in the Wilson Court area. | 03000013, 03000014 | Cooke | 1203010305, 1203010401, 1203010306, 1113020107, 1203010303, 1113021004, 1113021002, 1113021003, 1203010304, 1203010301, 1203010307, 1203010302, 1113020105 | | Property Acquisition and Structural Elevation | 893.17 | Riverine | Cooke County | Cooke County | N | $5,000,000 | |
| 032000062 | Dallas County Acquisition of Flood-Prone and Repetitive Loss Properties | Acquisition / demolition of 46 flood-prone and repetitive loss properties. | 03000013, 03000014 | Dallas | 1203010501, 1203010605, 1203010207, 1203010502, 1203010903, 1203010604, 1203010310, 1203010503, 1203010206, 1203010403 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Property Acquisition and Structural Elevation | 904.72 | Riverine | Dallas County | Dallas County | N | $50,000,000 | |
| 032000063 | Grayson County Buyout of Repetitive Flood Properties | Buyout of repetitive flood properties, which includes any structures found to be located in flood areas that aren't incorporated in NFIP areas. | 03000013, 03000014 | Grayson | 1114010101, 1203010602, 1203010303, 1113021004, 1113021002, 1113021003, 1114010102, 1114010105, 1203010307, 1203010603, 1203010302, 1114010104, 1113021005, 1203010601 | Muddy Creek-Lake Ray Hubbard, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard | Property Acquisition and Structural Elevation | 976.48 | Riverine | Grayson County | Grayson County | N | $5,000,000 | |
| 032000064 | Terrell Property Acquisition Program | Acquire high risk and repetitive flood-prone structures | 03000013, 03000014 | Kaufman | 1203010701 | Upper Big Brushy Creek, High Point Creek, Middle Big Brushy Creek, Headwaters Kings Creek, Eagans Branch-Kings Creek, Little Brushy Creek-Kings Creek | Property Acquisition and Structural Elevation | 25.11 | Riverine | Terrell | Terrell | N | $5,000,000 | |
| 032000065 | Leon County Property Acquisition Program | Acquire any repetitive loss structures located below the high hazard dams and homes located in the floodplain. | 03000013, 03000014 | Leon | 1207010304, 1203020204, 1203020106, 1203020202, 1207010305, 1203020203, 1203020104, 1203020107, 1203020201, 1203020105, 1207010303 | Upper Big Brushy Creek, High Point Creek, Middle Big Brushy Creek, Headwaters Kings Creek, Eagans Branch-Kings Creek, Little Brushy Creek-Kings Creek | Property Acquisition and Structural Elevation | 1,075.85 | Riverine | Leon County | Leon County | N | $5,000,000 | |
| 032000066 | City of Fate Floodplain Acquisition and Preservation Program | Acquire, reuse, and preserve open spaces adjacent to floodplain areas to reduce the impacts of flooding | 03000013, 03000014, 03000021, 03000022, 03000027, 03000028 | Rockwall | 1201000103, 1203010605, 1203010701, 1203010604 | Cottonwood Creek-East Fork Trinity River, Camp Creek-Lake Ray Hubbard, Long Branch-Buffalo Creek, Upper Big Brushy Creek | Property Acquisition and Structural Elevation | 6.03 | Riverine | Fate | Fate | N | $5,000,000 | |
| 032000067 | City of Kennedale Property Acquisition Program - Village Creek | Acquire all private property located within the Village Creek 100-year floodplain in the City of Kennedale | 03000013, 03000014 | Tarrant | 1203010204 | Village Creek-Lake Arlington, Wildcat Branch-Lake Arlington, Rush Creek-Village Creek | Property Acquisition and Structural Elevation | 6.65 | Riverine | Kennedale | Kennedale | N | $5,000,000 | |
| 032000068 | City of Mansfield Property Acquisition Program | Acquire properties at risk of flooding and permanently remove them from special flood hazard areas. | 03000013, 03000014 | Tarrant | 1203010204, 1203010206 | Rush Creek-Village Creek, Headwaters Mountain Creek, Low Branch-Mountain Creek, King Branch-Walnut Creek, Lynn Creek-Walnut Creek | Property Acquisition and Structural Elevation | 36.47 | Riverine | Mansfield | Mansfield | N | $5,000,000 | |
| 032000069 | Tarrant County Property Acquisition Program | Create a Buyout Program for Repetitive Loss Properties | 03000013, 03000014 | Tarrant | 1203010201, 1203010204, 1203010207, 1203010205, 1203010202, 1203010203, 1203010310, 1203010206, 1203010106, 1203010403 | Pine Branch-Larrison Creek, Youngs Creek | Property Acquisition and Structural Elevation | 899.55 | Riverine | Tarrant | Tarrant | N | $5,000,000 | |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG (cont.)**

| FMS ID (cont.) | FMS Name (cont.) | Area in 100yr (1% annual chance) Floodplain | Area in 500yr (0.2% annual chance) Floodplain | Estimated number of structures at 100yr flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Number of structures with reduced 100yr (1% annual chance) Flood risk | Number of structures removed from 100yr (1% annual chance) Flood risk | Number of structures removed from 500yr (0.2% annual chance) Flood risk | Habitable structures removed from 100yr (1% annual chance) Flood risk | Estimated Population removed from 100yr (1% annual chance) Flood risk | Critical facilities removed from 100yr (1% annual chance) Flood risk (#) | Number of low water crossings removed from 100yr (1% annual chance) Flood risk | Estimated reduction in road closure occurrences | Estimated length of roads removed from 100yr flood risk (Miles) | Estimated active farm & ranch land removed from 100yr flood risk (acres) | Estimated reduction in fatalities (if available) | Estimated reduction in injuries (if available) | Cost/ Structure removed | Consideration of Nature-based Solution (Y/N) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | Water Supply Benefit (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000037 | Itasca Zoning Regulations and Land Use Planning Mechanisms | 0.06 | 0.02 | 4 | 0 | 2 | 0 | 0 | | 0 | 25.80 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000038 | Kaufman County Regulation Standards to Protect Open Space Flood-Prone Areas | 254.64 | 17.06 | 2,086 | 1,672 | 4,193 | 26 | 38 | | 148 | 88,117.98 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000039 | Tarrant County Promotion of Open Space and LID | 145.92 | 23.08 | 14,853 | 12,825 | 78,224 | 109 | 708 | | 468 | 20,062.70 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000040 | Itasca Land Use Planning Mechanisms | 0.06 | 0.02 | 4 | 0 | 2 | 0 | 0 | | 0 | 25.80 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000041 | Dallas County Land Use Program | 1.51 | 0.36 | 139 | 125 | 613 | 1 | 29 | | 7 | 81.45 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000042 | Houston County Maintenance Program | 245.76 | 18.12 | 0 | 0 | 0 | 10 | 45 | | 110 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000043 | Kaufman County Agreement to Monitor High Hazard Dams | 254.64 | 17.06 | 2,086 | 1,672 | 4,193 | 26 | 38 | | 148 | 88,117.98 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000044 | Rowlett Creek Tributary Maintenance Program | 6.51 | 0.83 | 1,005 | 944 | 7,586 | 6 | 56 | | 30 | 627.50 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000045 | Addison-Carrollton Debris Cleaning Program | 9.62 | 1.09 | 1,081 | 943 | 16,581 | 15 | 23 | | 49 | 617.10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000046 | Navarro County Waterways Clearing | 4.45 | 0.75 | 487 | 471 | 1,647 | 5 | 48 | | 27 | 797.49 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000047 | Weatherford Biannual Dam Inspection Program | 5.63 | 0.51 | 520 | 468 | 2,170 | 9 | 10 | | 18 | 759.01 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000048 | Richland Hills Semi-Annual Levee Inspections | 0.51 | 0.03 | 404 | 397 | 1,882 | 4 | 16 | | 7 | 3.51 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000049 | Rowlett Creek Tributary Maintenance Program | 1.19 | 0.47 | 71 | 61 | 240 | 0 | 9 | | 4 | 253.78 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000050 | Hazard Hardening Retrofit for Polk County Facilities | 189.78 | 15.10 | 1,797 | 1,654 | 2,681 | 38 | 18 | | 95 | 13,977.25 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000051 | Acquire and Protect Red Oak Creek, Bentle Branch Creek, and Balcones Escarpment | 3.10 | 0.67 | 315 | 298 | 3,969 | 2 | 1 | | 17 | 215.90 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000052 | Ten Mile Creek Comprehensive Loss Reduction Program | 3.81 | 0.56 | 316 | 266 | 3,800 | 2 | 15 | | 13 | 561.83 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000053 | Midway Property Acquisition and Elevation Program | 0.12 | 0.01 | 2 | 2 | 6 | 1 | 0 | | 0 | 41.82 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000054 | Montague County Property Acquisition and Land Preservation Program | 68.97 | 7.81 | 0 | 0 | 0 | 4 | 20 | | 57 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000055 | Montague County Sewage Treatment Plants and Sewage Lift Stations Flood-Proofing Program | 68.97 | 7.81 | 0 | 0 | 0 | 4 | 20 | | 57 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000056 | San Jacinto County Voluntary Property Acquisition & Elevation Program | 1.45 | 0.21 | 139 | 129 | 702 | 3 | 0 | | 6 | 54.92 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000057 | Johnson County Acquisition of Flood Prone Structures | 55.60 | 7.73 | 1,851 | 1,555 | 4,897 | 21 | 418 | | 62 | 18,202.36 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000058 | Acquisition of Repetitive Loss Properties in the Deep River Plantation Subdivision | 128.82 | 8.93 | 1,654 | 1,480 | 4,303 | 13 | 15 | | 59 | 28,691.50 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000059 | Anderson County Floodplain Acquisition and Preservation Program | 184.20 | 11.63 | 667 | 416 | 1,408 | 11 | 32 | | 73 | 36,103.84 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000060 | Collin County Property and Structures Buyout Program | 170.87 | 11.47 | 2,842 | 2,401 | 17,576 | 28 | 86 | | 146 | 34,153.61 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000061 | Cooke County Acquisition of Repetitive Loss and Damaged Properties | 122.38 | 11.45 | 1,328 | 964 | 2,077 | 10 | 74 | | 81 | 40,878.87 | N/A | 30 | N/A | 30 | 90 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | $167,000 | N | N | N | N |
| 032000062 | Dallas County Acquisition of Flood-Prone and Repetitive Loss Properties | 211.70 | 24.78 | 22,225 | 20,521 | 181,697 | 216 | 499 | | 791 | 31,557.68 | N/A | 46 | N/A | 39 | 117 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | $1,087,000 | N | N | N | N |
| 032000063 | Grayson County Buyout of Repetitive Flood Properties | 68.03 | 7.23 | 436 | 376 | 541 | 12 | 50 | | 43 | 21,311.44 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000064 | Terrell Property Acquisition Program | 5.94 | 0.48 | 156 | 131 | 836 | 4 | 8 | | 23 | 1,654.74 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000065 | Leon County Property Acquisition Program | 239.10 | 18.93 | 428 | 292 | 636 | 11 | 31 | | 100 | 54,925.91 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000066 | City of Fate Floodplain Acquisition and Preservation Program | 0.63 | 0.16 | 13 | 11 | 51 | 0 | 0 | | 2 | 230.52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000067 | City of Kennedale Property Acquisition Program - Village Creek | 1.09 | 0.12 | 167 | 101 | 2,438 | 2 | 2 | | 4 | 146.46 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000068 | City of Mansfield Property Acquisition Program | 4.62 | 1.39 | 422 | 385 | 2,492 | 4 | 15 | | 30 | 778.43 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000069 | Tarrant County Property Acquisition Program | 145.92 | 23.08 | 14,853 | 12,825 | 78,224 | 109 | 708 | | 468 | 20,062.70 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG**

| FMS ID | FMS Name | Description | Associated Goals (ID) | Counties | HUC10s | Watersheds | Strategy Type | Strategy Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa Other) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Strategy Cost ($) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000070 | Walker County Voluntary Buyout Program | The county and partnering jurisdictions will begin a voluntary buyout program for insured severe repetitive loss properties that are in the floodplain | 03000013, 03000014 | Walker | 1203020207, 1204010101, 1203020204, 1203020205, 1203020208, 1204010303, 1203020206, 1204010102, 1204010301 | Pine Branch-Larrison Creek, Youngs Creek | Property Acquisition and Structural Elevation | 797.70 | Riverine | Walker County, New Waverly, Riverside | Walker County, New Waverly, Riverside | N | $5,000,000 | |
| 032000071 | Wise County Repetitive Flood Loss Buyout Program | Develop a buyout program for repetitive flood loss areas within the county | 03000013, 03000014, 03000021, 03000022 | Wise | 1203010308, 1203010305, 1203010401, 1203010105, 1203010402, 1203010104, 1203010202, 1203010106, 1203010403 | Pine Branch-Larrison Creek, Youngs Creek | Property Acquisition and Structural Elevation | 919.27 | Riverine | Wise County | Wise County | N | $5,000,000 | |
| 032000072 | City of Chico Property Acquisition Program | City will acquire property and structures in the flood zone along Dry Creek and its tributaries and remove structures to prevent loss of life and property during flooding events. | 03000013, 03000014 | Wise | 1203010104 | Village Creek-West Fork Trinity River, Dry Creek-West Fork Trinity River | Property Acquisition and Structural Elevation | 1.52 | Riverine | Chico | Chico | N | $5,000,000 | |
| 032000073 | Town Creek Warren Park Extension (Property Acquisition Program) | Create a buyout program | 03000013, 03000014, 03000021, 03000022 | Tarrant | 1203010901, 1203010204, 1206020202, 1203010203, 1203010206 | Rock Creek, Quil Miller Creek-Village Creek, Deer Creek-Village Creek, King Branch-Walnut Creek, Headwaters North Fork Chambers Creek | Property Acquisition and Structural Elevation | 28.00 | Riverine | Burleson | Burleson | N | $5,000,000 | |
| 032000074 | City of Hurst Buyout Program | 107 total structures across the Lorean, Valley View, and Walker watersheds | 03000013, 03000014 | Tarrant | 1203010207, 1203010205 | Little Bear Creek, Headwaters Walker Branch, Walker Branch-West Fork Trinity River | Property Acquisition and Structural Elevation | 9.93 | Riverine | Hurst | Hurst | N | $25,000,000 | |
| 032000075 | Anderson County Flood Education Program | Coordinate and implement a natural hazards public awareness campaign. Educate community on the dangers of low water crossings through the installation of warning signs and promotion of "Turn Around, Don't Drown" Program. | 03000003, 03000004, 03000037, 03000038 | Anderson | 1203020103, 1202000105, 1203020104, 1203010505, 1203020107, 1202000103, 1202000104, 1202000107, 1203020102 | | Education and Outreach | 1,073.39 | Riverine | Anderson County | Anderson County | N | $50,000 | |
| 032000076 | Cooke County Public Information and Education | "Turn Around Don't Drown" campaign. | 03000003, 03000004 | Cooke | 1113020107, 1203010304, 1203010301 | Montague Creek-Elm Fork Trinity River, Scott Creek-Elm Fork Trinity River | Education and Outreach | 2.20 | Riverine | Lindsay | Lindsay | N | $50,000 | |
| 032000077 | Cooke County Flood Education and Flood Insurance Public Awareness Program | Education of the public on the importance of Flood Insurance. "Turn Around Don't Drown" campaign. | 03000037, 03000038, 03000039, 03000040 | Cooke | 1203010305, 1203010401, 1203010306, 1113020107, 1203010303, 1113021004, 1113021002, 1113021003, 1203010304, 1203010301, 1203010307, 1203010302, 1113020105 | | Education and Outreach | 893.17 | Riverine | Cooke County | Cooke County | N | $50,000 | |
| 032000078 | Glenn Heights-Seagoville-Wilmer Flood Safety Improvements and Education | Educate community on the dangers of low water crossings through the installation of warning signs and promotion of "Turn Around, Don't Drown" Program | 03000003, 03000004, 03000037, 03000038 | Dallas | 1203010605, 1203010502, 1203010503 | Deep Branch-Tenmile Creek, Prairie Creek-Trinity River, Hickory Creek-Parsons Slough, Parsons Slough-Trinity River, Headwaters Red Oak Creek, Middle Red Oak Creek, Mustang Creek-East Fork Trinity River, White House Ridge-East Fork Trinity River | Education and Outreach | 34.36 | Riverine | Glenn Heights, Seagoville, Wilmer | Glenn Heights, Seagoville, Wilmer | N | $50,000 | |
| 032000079 | Krum "Turn Around, Don't Drown" Campaign | Implement "Turn Around, Don't Drown" campaign. | 03000003, 03000004, 03000037, 03000038 | Denton | 1203010308 | North Hickory Creek, Upper Hickory Creek | Education and Outreach | 2.45 | Riverine | Krum | Krum | N | $50,000 | |
| 032000080 | Fannin County Flood Safety Education | Education programs such as "Turn around Don't Drown." Work with local newspaper to run flood safety information. Public education via water bills, social media, and webpage to promote flood safety. | 03000003, 03000004, 03000037, 03000038 | Fannin | 1114010108, 1114030103, 1114010101, 1114030101, 1114010106, 1114010103, 1114010102, 1114010105, 1114010202, 1114030102, 1114010104, 1203010601 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Education and Outreach | 896.79 | Riverine | Fannin County | Fannin County | N | $50,000 | |
| 032000081 | Fannin County Flood Insurance Education | Develop and distribute information about the availability and need for flood insurance. Public awareness of NFIP. | 03000037, 03000038, 03000039, 03000040 | Fannin | 1114010108, 1114030103, 1114010101, 1114030101, 1114010106, 1114010103, 1114010102, 1114010105, 1114010202, 1114030102, 1114010104, 1203010601 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Education and Outreach | 896.79 | Riverine | Fannin County | Fannin County | N | $50,000 | |
| 032000082 | Grayson County Flood Insurance and Flood Safety Education Program | Educate residents on NFIP program and importance of purchasing flood insurance. Turn Around Don't Drown Campaign. Educate property owners near high hazard dams of potential dam failure. Better inform residents of mitigation activities to implement in h | 03000037, 03000038, 03000039, 03000040 | Grayson | 1114010101, 1203010602, 1203010303, 1113021004, 1113021002, 1113021003, 1114010102, 1114010105, 1203010307, 1203010603, 1203010302, 1114010104, 1113021005, 1203010601 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Education and Outreach | 976.48 | Riverine | Grayson County | Grayson County | N | $50,000 | |
| 032000083 | Grayson County Flood Safety Education | Turn Around Don't Drown Campaign. Educate property owners near high hazard dams of the potential of a dam failure. Better inform residents of mitigation activities that they can implement in their homes. | 03000003, 03000004, 03000037, 03000038 | Grayson | 1114010101, 1203010602, 1203010303, 1113021004, 1113021002, 1113021003, 1114010102, 1114010105, 1203010307, 1203010603, 1203010302, 1114010104, 1113021005, 1203010601 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Education and Outreach | 976.48 | Riverine | Grayson County | Grayson County | N | $50,000 | |
| 032000084 | Hill County Flooding Education and Outreach Program | Develop a coordinated education, outreach, and training program to inform and educate the public about the dangers of flooding and how to prevent flood damages to property. | 03000037, 03000038 | Hill | 1203010901, 1206020206, 1206020203, 1203010802, 1207010301, 1203010803, 1203010902, 1203010801, 1206020204, 1206020207, 1206020202, 1206020205 | Farmers Branch-West Fork Trinity River | Education and Outreach | 981.88 | Riverine | Hill County | Hill County | N | $50,000 | |
| 032000085 | Houston County Flood Insurance and Dam Education Program | Develop and implement NFIP public education program for residents affected by high flood risk areas. Educate the Public on mitigation activities that can help protect their properties in the event of structural failures and extreme flooding. | 03000037, 03000038, 03000039, 03000040 | Houston | 1203020207, 1202000105, 1202000201, 1203020208, 1202000204, 1203020203, 1203020104, 1203020206, 1202000202, 1203020107, 1202000107 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Education and Outreach | 1,231.76 | Riverine | Houston County | Houston County | N | $50,000 | |
| 032000086 | Houston County Public Education on Dam Education | Educate the Public on mitigation activities that can help protect their properties in the event of structural failures and extreme flooding | 03000037, 03000038 | Houston | 1203020207, 1202000105, 1202000201, 1203020208, 1202000204, 1203020203, 1203020104, 1203020206, 1202000202, 1203020107, 1202000107 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Education and Outreach | 1,231.76 | Riverine | Houston County | Houston County | N | $50,000 | |
| 032000087 | Jack County Flood Education | Implement a flood awareness program by providing FEMA / NFIP materials to mortgage lenders, real estate agents and insurance agents | 03000037, 03000038, 03000039, 03000040 | Jack | 1206020111, 1206020102, 1203010103, 1203010105, 1206020106, 1203010101, 1203010104, 1203010102 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Education and Outreach | 917.06 | Riverine | Jack County | Jack County | N | $50,000 | |
| 032000088 | Kaufman County Flood Education Program | Conduct countywide outreach to educate residents on flood hazards, mitigation techniques and promote availability of NFIP flood insurance. | 03000037, 03000038, 03000039, 03000040 | Kaufman | 1203010702, 1201000103, 1203010504, 1203010605, 1201000104, 1203010703, 1203010505, 1203010701, 1201000105, 1203010502, 1203010604 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Education and Outreach | 804.43 | Riverine | Kaufman County | Kaufman County | N | $50,000 | |
| 032000089 | Montague County Flood Education | Implement a flood awareness program by providing FEMA / NFIP materials to mortgage lenders, real estate agents and insurance agents and place them in local libraries. | 03000037, 03000038, 03000039, 03000040 | Montague | 1113020905, 1203010305, 1203010401, 1203010105, 1113020107, 1203010104, 1203010301, 1113020102, 1113020105 | Bear Creek-Indian Creek, Arnold Creek, Pot Rack Creek-Indian Creek, Desert Creek-Pilot Grove Creek | Education and Outreach | 933.20 | Riverine | Montague County | Montague County | N | $50,000 | |
| 032000090 | Parker County Flood and Dam Education | Create and implement a community-wide educational campaign to educate residents about the NFIP and dam safety | 03000037, 03000038, 03000039, 03000040 | Parker | 1206020111, 1203010201, 1206020106, 1203010104, 1206020112, 1203010202, 1206020113, 1203010203, 1206020110, 1203010106 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, Muddy Creek-Lake Ray Hubbard, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Duck Creek | Education and Outreach | 902.95 | Riverine | Weatherford, Hudson Oaks, Aledo, Parker County | Weatherford, Hudson Oaks, Aledo, Parker County | N | $50,000 | |
| 032000091 | Livingston Flood Damage Mitigation Educational Program | Establish an educational program to teach citizens how to mitigate flood damage to their property | 03000037, 03000038 | Polk | 1203020210 | Choates Creek-Long King Creek | Education and Outreach | 8.75 | Riverine | Livingston | Livingston | N | $60,000 | |
| 032000092 | Tarrant County Flood Education | Provide flood risk and mitigation risk mapping materials for property owners in floodplains. Include mitigation techniques | 03000037, 03000038 | Tarrant | 1203010201 | Farmers Branch-West Fork Trinity River | Education and Outreach | 2.02 | Riverine | River Oaks | River Oaks | N | $65,000 | |
| 032000093 | Tarrant County Flood Education Program | Conduct NFIP community workshops to provide information and incentives for property owners to acquire flood insurance. | 03000037, 03000038, 03000039, 03000040 | Tarrant | 1203010201, 1203010204, 1203010207, 1203010205, 1203010202, 1203010203, 1203010310, 1203010206, 1203010106, 1203010403 | Marshall Branch-Grapevine Lake | Education and Outreach | 899.55 | Riverine | Tarrant | Tarrant | N | $50,000 | |
| 032000094 | Van Zandt County Flood Safety Improvements and Education | Educate community on the dangers of low water crossings | 03000003, 03000004, 03000037, 03000038 | Van Zandt | 1203010702, 1201000106, 1202000102, 1201000104, 1203010703, 1201000105, 1202000103, 1202000101 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Camp Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Long Branch-Buffalo Creek, Upper Big Brushy Creek, High Point Creek | Education and Outreach | 856.15 | Riverine | Van Zandt | Van Zandt | N | $50,000 | |
| 032000095 | Walker County Floodplain Regulatory Awareness Public Information Campaign | Rewrite, improve, and implement new local floodplain regulations, to include a public information campaign on regulatory awareness | 03000025, 03000026, 03000037, 03000038 | Walker | 1203020207, 1204010101, 1203020204, 1203020205, 1203020208, 1204010303, 1203020206, 1204010102, 1204010301 | Marshall Branch-Grapevine Lake | Education and Outreach | 797.70 | Riverine | Walker | Walker | N | $50,000 | |
| 032000096 | City of Chico NFIP Education Program | Distribute information to downstream property owners educating homeowners about the National Flood Insurance Program. | 03000037, 03000038, 03000039, 03000040 | Wise | 1203010104 | Village Creek-West Fork Trinity River, Dry Creek-West Fork Trinity River | Education and Outreach | 1.52 | Riverine | Chico | Chico | N | $50,000 | |
| 032000097 | Dallas County Open Space System Program and Dallas Trails Program | Adopt and implement Dallas County Open Space System Program and Dallas Trails Program. | 03000021, 03000022, 03000027, 03000028 | Dallas | 1203010501, 1203010605, 1203010207, 1203010502, 1203010903, 1203010604, 1203010310, 1203010503, 1203010206, 1203010403 | Lower Spring Creek, Pecan Creek-Elm Fork Trinity River | Other | 904.72 | Riverine | Dallas County | Dallas County | N | $5,000,000 | |
| 032000098 | Parker County Nature-Based Practices for Flood Control | Implement the use of green infrastructure | 03000027, 03000028 | Parker | 1206020111, 1203010201, 1206020106, 1203010104, 1206020112, 1203010202, 1206020113, 1203010203, 1206020110, 1203010106 | Floyd Branch-White Rock Creek, White Rock Creek-White Rock Lake, Muddy Creek-Lake Ray Hubbard, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Duck Creek | Other | 902.95 | Riverine | Parker County, Hudson Oaks | Parker County, Hudson Oaks | N | $500,000 | |
| 032000099 | Krugerville waterways stabilization program | Develop waterways stabilization program | 03000031, 03000032 | Denton | 1203010309, 1203010304, 1203010307 | Culp Branch-Elm Fork Trinity River, Pecan Creek, Running Branch-Little Elm Creek, Timber Branch-Lewisville Lake, Pecan Creek-Lewisville Lake | Other | 1.33 | Riverine | Krugerville | Krugerville | N | $850,000 | |
| 032000100 | City of Euless Stream Bank Protection Program | Develop a plan to reduce stream bank erosion impacts due to flooding along specific creeks | 03000031, 03000032 | Tarrant | 1203010207, 1203010205 | Big Bear Creek, Little Bear Creek, Estelle Creek-Bear Creek, Headwaters Walker Branch, Hurricane Creek-West Fork Trinity River | Other | 16.14 | Riverine | Euless | Euless | N | $250,000 | |
| 032000101 | Lewisville Storm Water Utility Fee | Conduct a study to evaluate the implementation of levying a storm water fee for developers to fund developments to the storm water drainage systems | 03000041, 03000042 | Denton | 1203010308, 1203010309, 1203010310, 1203010403 | Lower Hickory Creek, Stewart Creek-Lewisville Lake, Prairie Creek-Elm Fork Trinity River, Timber Creek, Indian Creek-Elm Fork Trinity River, Cottonwood Branch-Denton Creek | Regulatory and Guidance | 42.66 | Riverine | Lewisville | Lewisville | N | $200,000 | |
| 032000102 | City of Retreat NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Navarro | 1203010802, 1203010904, 1203010804 | Cedar Creek-Richland Creek, Little Pin Oak Creek-Richland Creek, Grape Creek-Richland Creek, Elm Creek-Post Oak Creek | Regulatory and Guidance | 4.98 | Riverine | Retreat | Retreat | N | $100,000 | |
| 032000103 | City of Streetman NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Freestone, Navarro | 1203020101, 1203010804 | Mesquite Creek-Little Pin Oak Creek, Grape Creek-Richland Creek, Sloan Creek-Tehuacana Creek | Regulatory and Guidance | 1.58 | Riverine | Streetman | Streetman | N | $100,000 | |
| 032000104 | City of Alma NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Ellis | 1203010904, 1203010504 | Walker Creek-Village Creek, Cummins Creek | Regulatory and Guidance | 5.15 | Riverine | Alma | Alma | N | $100,000 | |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG (cont.)**

| FMS ID (cont.) | FMS Name (cont.) | Area in 100yr (1% annual chance) Floodplain | Area in 500yr (0.2% annual chance) Floodplain | Estimated number of structures at 100yr flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Number of structures with reduced 100yr (1% annual chance) Flood risk | Number of structures removed from 100yr (1% annual chance) Flood risk | Number of structures removed from 500yr (0.2% annual chance) Flood risk | Habitable structures removed from 100yr (1% annual chance) Flood risk | Estimated Population removed from 100yr (1% annual chance) Flood risk | Critical facilities removed from 100yr (1% annual chance) Flood risk (#) | Number of low water crossings removed from 100yr (1% annual chance) Flood risk | Estimated reduction in road closure occurrences | Estimated length of roads removed from 100yr flood risk (Miles) | Estimated active farm & ranch land removed from 100yr flood risk (acres) | Estimated reduction in fatalities (if available) | Estimated reduction in injuries (if available) | Cost/ Structure removed | Consideration of Nature-based Solution (Y/N) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | Water Supply Benefit (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000070 | Walker County Voluntary Buyout Program | 128.82 | 8.93 | 100 | 65 | 70 | 13 | 15 | | 59 | 24,889.45 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000071 | Wise County Repetitive Flood Loss Buyout Program | 184.67 | 21.58 | 1,118 | 888 | 1,558 | 25 | 54 | | 100 | 35,896.37 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000072 | City of Chico Property Acquisition Program | 0.23 | 0.04 | 0 | 0 | 0 | 2 | 0 | | 2 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000073 | Town Creek Warren Park Extension (Property Acquisition Program) | 4.70 | 0.62 | 269 | 224 | 1,305 | 2 | 19 | | 18 | 1,045.64 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000074 | City of Hurst Buyout Program | 0.68 | 0.20 | 287 | 278 | 1,276 | 1 | 10 | | 9 | 17.99 | N/A | 107 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | $234,000 | N | N | N | N |
| 032000075 | Anderson County Flood Education Program | 184.20 | 11.63 | 667 | 416 | 1,408 | 11 | 32 | | 73 | 36,103.84 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000076 | Cooke County Public Information and Education | 0.36 | 0.05 | 36 | 24 | 39 | 0 | 0 | | 2 | 135.68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000077 | Cooke County Flood Education and Flood Insurance Public Awareness Program | 122.38 | 11.45 | 1,328 | 964 | 2,077 | 10 | 74 | | 81 | 40,878.87 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000078 | Glenn Heights-Seagoville-Wilmer Flood Safety Improvements and Education | 7.82 | 0.79 | 440 | 427 | 1,610 | 2 | 20 | | 18 | 2,059.09 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000079 | Krum "Turn Around, Don't Drown" Campaign | 0.27 | 0.03 | 31 | 28 | 72 | 1 | 0 | | 2 | 126.73 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000080 | Fannin County Flood Safety Education | 5.70 | 0.55 | 139 | 119 | 93 | 2 | 6 | | 4 | 1,782.62 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000081 | Fannin County Flood Insurance Education | 5.70 | 0.55 | 139 | 119 | 93 | 2 | 6 | | 4 | 1,782.62 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000082 | Grayson County Flood Insurance and Flood Safety Education Program | 68.03 | 7.23 | 436 | 376 | 541 | 12 | 50 | | 43 | 21,311.44 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000083 | Grayson County Flood Safety Education | 68.03 | 7.23 | 436 | 376 | 541 | 12 | 50 | | 43 | 21,311.44 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000084 | Hill County Flooding Education and Outreach Program | 59.02 | 8.37 | 127 | 83 | 109 | 4 | 26 | | 24 | 24,901.61 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000085 | Houston County Flood Insurance and Dam Education Program | 245.76 | 18.12 | 0 | 0 | 0 | 10 | 45 | | 110 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000086 | Houston County Public Education on Dam Education | 245.76 | 18.12 | 0 | 0 | 0 | 10 | 45 | | 110 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000087 | Jack County Flood Education | 125.29 | 13.88 | 116 | 60 | 117 | 0 | 6 | | 55 | 5,105.56 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000088 | Kaufman County Flood Education Program | 254.64 | 17.06 | 2,086 | 1,672 | 4,193 | 26 | 38 | | 148 | 88,117.98 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000089 | Montague County Flood Education | 68.97 | 7.81 | 0 | 0 | 0 | 4 | 20 | | 57 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000090 | Parker County Flood and Dam Education | 71.41 | 8.82 | 1,953 | 1,485 | 6,748 | 37 | 49 | | 61 | 25,501.05 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000091 | Livingston Flood Damage Mitigation Educational Program | 2.35 | 0.26 | 140 | 128 | 233 | 7 | 1 | | 12 | 132.80 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000092 | Tarrant County Flood Education | 0.06 | 0.01 | 8 | 4 | 10 | 0 | 0 | | 0 | 0.48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000093 | Tarrant County Flood Education Program | 145.92 | 23.08 | 14,853 | 12,825 | 78,224 | 109 | 708 | | 468 | 20,062.70 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000094 | Van Zandt County Flood Safety Improvements and Education | 49.18 | 4.70 | 506 | 261 | 461 | 3 | 24 | | 37 | 18,020.58 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000095 | Walker County Floodplain Regulatory Awareness Public Information Campaign | 128.82 | 8.93 | 19 | 18 | 23 | 13 | 15 | | 59 | 24,327.89 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000096 | City of Chico NFIP Education Program | 0.23 | 0.04 | 0 | 0 | 0 | 2 | 0 | | 2 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000097 | Dallas County Open Space System Program and Dallas Trails Program | 211.70 | 24.78 | 22,225 | 20,521 | 181,697 | 216 | 499 | | 791 | 31,557.68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000098 | Parker County Nature-Based Practices for Flood Control | 71.41 | 8.82 | 1,953 | 1,485 | 6,748 | 37 | 49 | | 61 | 25,501.05 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000099 | Krugerville waterways stabilization program | 0.11 | 0.03 | 28 | 27 | 89 | 0 | 1 | | 2 | 28.49 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000100 | City of Euless Stream Bank Protection Program | 1.62 | 0.25 | 191 | 181 | 3,321 | 4 | 13 | | 7 | 70.75 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000101 | Lewisville Storm Water Utility Fee | 14.46 | 1.95 | 314 | 301 | 3,793 | 9 | 17 | | 32 | 868.67 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000102 | City of Retreat NFIP Floodplain Ordinance | 0.46 | 0.11 | 10 | 2 | 11 | 0 | 0 | | 0 | 208.12 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000103 | City of Streetman NFIP Floodplain Ordinance | 0.24 | 0.03 | 4 | 3 | 3 | 1 | 1 | | 3 | 50.74 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000104 | City of Alma NFIP Floodplain Ordinance | 0.82 | 0.09 | 6 | 4 | 14 | 0 | 1 | | 2 | 363.41 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG**

| FMS ID | FMS Name | Description | Associated Goals (ID) | Counties | HUC10s | Watersheds | Strategy Type | Strategy Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa Other) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Strategy Cost ($) | Potential Funding Sources and Amount |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000105 | City of Alvord NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Wise | 1203010105 | Lower Brushy Creek, Chicken Creek-Big Sandy Creek | Regulatory and Guidance | 1.53 | Riverine | Alvord | Alvord | N | $100,000 | |
| 032000106 | City of Angus NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Navarro | 1203010804 | Little Pin Oak Creek-Richland Creek, Grape Creek-Richland Creek | Regulatory and Guidance | 3.12 | Riverine | Angus | Angus | N | $100,000 | |
| 032000107 | City of Bedias NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Grimes | 1203020204, 1203020205 | Simes Creek-Bedias Creek, Pine Creek-South Bedias Creek | Regulatory and Guidance | 1.14 | Riverine | Bedias | Bedias | N | $100,000 | |
| 032000108 | City of Bynum NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Hill | 1203010801 | Headwaters Ash Creek, Bynum Creek | Regulatory and Guidance | 0.14 | Riverine | Bynum | Bynum | N | $100,000 | |
| 032000109 | Carl's Corner NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Hill | 1203010801, 1206020205 | Cottonwood Creek-White Rock Creek, Grove Creek-Pecan Creek | Regulatory and Guidance | 1.61 | Riverine | Carl's Corner | Carl's Corner | N | $100,000 | |
| 032000110 | City of Combine NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Dallas, Kaufman | 1203010605, 1203010502 | Parsons Slough-Trinity River, White House Ridge-East Fork Trinity River | Regulatory and Guidance | 7.58 | Riverine | Combine | Combine | N | $100,000 | |
| 032000111 | Cayote Flats NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Johnson | 1203010901, 1206020202 | Headwaters North Fork Chambers Creek, Upper South Fork Chambers Creek | Regulatory and Guidance | 1.67 | Riverine | Coyote Flats | Coyote Flats | N | $100,000 | |
| 032000112 | City of Dorchester NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Grayson | 1114010101, 1203010602, 1203010302 | Upper Range Creek, Squirrel Creek-East Fork Trinity River | Regulatory and Guidance | 1.40 | Riverine | Dorchester | Dorchester | N | $100,000 | |
| 032000113 | Draper NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Denton | 1203010403 | Denton Creek-Grapevine Lake | Regulatory and Guidance | 0.16 | Riverine | Draper | Draper | N | $100,000 | |
| 032000114 | City of Emhouse NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Navarro | 1203010904 | Briar Creek, Oak Branch-Chambers Creek | Regulatory and Guidance | 0.27 | Riverine | Emhouse | Emhouse | N | $100,000 | |
| 032000115 | City of Eureka NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Navarro | 1203010904, 1203010804 | Crab Creek, Jones Branch-Richland Creek, Cedar Creek-Chambers Creek, Long Arm Branch-Chambers Creek | Regulatory and Guidance | 2.36 | Riverine | Eureka | Eureka | N | $100,000 | |
| 032000116 | City of Goodlow NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Navarro | 1203010505 | Lower Rush Creek | Regulatory and Guidance | 1.03 | Riverine | Goodlow | Goodlow | N | $100,000 | |
| 032000117 | Grays Prairie NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Kaufman | 1203010504, 1203010701 | Coal Iron Creek-Cottonwood Creek, Headwaters Bois d'Arc Creek, Big Cottonwood Creek-Kings Creek, Little Cottonwood Creek-Kings Creek | Regulatory and Guidance | 1.22 | Riverine | Grays Prairie | Grays Prairie | N | $100,000 | |
| 032000118 | City of Hebron NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Denton | 1203010310 | Indian Creek-Elm Fork Trinity River | Regulatory and Guidance | 0.44 | Riverine | Hebron | Hebron | N | $100,000 | |
| 032000119 | City of Iola NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Grimes | 1203020204, 1207010306 | North Bedias Creek-Bedias Creek | Regulatory and Guidance | 0.33 | Riverine | Iola | Iola | N | $100,000 | |
| 032000120 | City of Kirvin NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Freestone | 1203020101 | Little Tehuacana Creek-Tehuacana Creek, Lower Caney Creek | Regulatory and Guidance | 0.24 | Riverine | Kirvin | Kirvin | N | $100,000 | |
| 032000121 | City of Latexo NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Houston | 1203020107 | Upper Hurricane Bayou | Regulatory and Guidance | 0.96 | Riverine | Latexo | Latexo | N | $100,000 | |
| 032000122 | City of Leona NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Leon | 1203020202 | Cedar Creek-Boggy Creek | Regulatory and Guidance | 1.89 | Riverine | Leona | Leona | N | $100,000 | |
| 032000123 | City of Midway NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Madison | 1203020205, 1203020206 | Pine Branch-Larrison Creek, Youngs Creek | Regulatory and Guidance | 1.24 | Riverine | Midway | Midway | N | $100,000 | |
| 032000124 | City of Mustang NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Navarro | 1203010804 | Grape Creek-Richland Creek | Regulatory and Guidance | 0.13 | Riverine | Mustang | Mustang | N | $100,000 | |
| 032000125 | City of Nevada NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Collin | 1201000103, 1203010603, 1203010604 | Price Creek-Lavon Lake, Camp Creek-Lake Ray Hubbard | Regulatory and Guidance | 1.66 | Riverine | Nevada | Nevada | N | $100,000 | |
| 032000126 | Oak Grove NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Kaufman | 1203010701 | Big Cottonwood Creek-Kings Creek, Headwaters Big Cottonwood Creek | Regulatory and Guidance | 1.94 | Riverine | Oak Grove | Oak Grove | N | $100,000 | |
| 032000127 | Oak Valley NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Navarro | 1203010802 | Cedar Creek-Richland Creek | Regulatory and Guidance | 1.96 | Riverine | Oak Valley | Oak Valley | N | $100,000 | |
| 032000128 | City of Penelope NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Hill | 1203010801 | Headwaters Ash Creek | Regulatory and Guidance | 1.00 | Riverine | Penelope | Penelope | N | $100,000 | |
| 032000129 | Post Oak Bend NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Kaufman | 1203010701 | Eagans Branch-Kings Creek, Little Brushy Creek-Kings Creek | Regulatory and Guidance | 2.02 | Riverine | Post Oak Bend | Post Oak Bend | N | $100,000 | |
| 032000130 | Providence Village NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Denton | 1203010309, 1203010307 | Pecan Creek, Running Branch-Little Elm Creek, Pecan Creek-Lewisville Lake | Regulatory and Guidance | 1.96 | Riverine | Providence Village | Providence Village | N | $100,000 | |
| 032000131 | Town of Road Runner NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Cooke | 1203010304 | Pecan Creek-Elm Fork Trinity River | Regulatory and Guidance | 0.64 | Riverine | Road Runner | Road Runner | N | $100,000 | |
| 032000132 | City of Rosser NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Kaufman | 1203010504 | Old Channel East Fork Trinity River-Trinity River, Smith Creek-Trinity River, Coal Iron Creek-Cottonwood Creek | Regulatory and Guidance | 1.93 | Riverine | Rosser | Rosser | N | $100,000 | |
| 032000133 | City of Tehuacana NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Limestone | 1207010301, 1203010803, 1203020101 | Elm Creek, Elm Creek-Tehuacana Creek | Regulatory and Guidance | 1.52 | Riverine | Tehuacana | Tehuacana | N | $100,000 | |
| 032000134 | City of Dallas Buyout of Repetitive Loss Properties | Develop a buyout program for repetitive loss properties within the city. | 03000013, 03000014, 03000021, 03000022, 03000027, 03000028 | Dallas | 1203010501, 1203010605, 1203010207, 1203010502, 1203010604, 1203010310, 1203010206 | Denton Creek-Grapevine Lake | Property Acquisition and Structural Elevation | 383.32 | Riverine | Dallas | Dallas | N | $50,000,000 | |
| 032000135 | City of Fort Worth HROM Program | Implement a Hazardous Roadway Overtopping Mitigation (HROM) Program to prioritize hazardous roadway overtopping and identify acceptable, affordable, and effective solutions for construction to maximize impact of available funding and reduce risks. | 03000013, 03000014, 03000031, 03000032 | Tarrant | 1203010201, 1203010204, 1203010207, 1203010205, 1203010202, 1203010203, 1203010206, 1203010106, 1203010403 | Denton Creek-Grapevine Lake | Infrastructure Projects | 343.87 | Riverine | Fort Worth | Fort Worth | N | $35,000,000 | |
| 032000136 | City of Lindsay Flood Monitoring System | Install flood monitoring equipment throughout the City of Lindsay. | 03000001, 03000002 | Cooke | 1113020107, 1203010304, 1203010301 | Montague Creek-Elm Fork Trinity River, Scott Creek-Elm Fork Trinity River | Flood Measurement and Warning | 2.20 | Riverine | Lindsay | Lindsay | N | $250,000 | |
| 032000137 | Mobile City NFIP Floodplain Ordinance | Develop a floodplain ordinance that meets or exceeds FEMA's minimum standards | 03000011, 03000012, 03000025, 03000026 | Rockwall | 1203010604 | Camp Creek-Lake Ray Hubbard | Regulatory and Guidance | 0.01 | Riverine | Mobile City | Mobile City | N | $100,000 | |
| 032000138 | City of Fort Worth Open Space Conservation | Acquire open space to preserve floodplains and upland watershed areas. | 03000021, 03000022, 03000025, 03000026, 03000027, 03000028 | Tarrant | 1203010201, 1203010204, 1203010207, 1203010205, 1203010202, 1203010203, 1203010206, 1203010106, 1203010403 | Pecan Creek-Elm Fork Trinity River | Property Acquisition and Structural Elevation | 343.87 | Riverine | Fort Worth | Fort Worth | N | $30,000,000 | |
| 032000139 | City of Burleson Flood Warning and Safety Improvements | Safety improvements at SE Tarrant Ave, N Warren St, SW Johnson Ave, and SE Newton Dr. Safety improvements may include, but are not limited to, high-water warning flashers, staff gauges, flood hazard signs, and additional light fixtures. | 03000001, 03000002, 03000003, 03000004 | Johnson | 1203010204, 1203010203 | Rock Creek, Quil Miller Creek-Village Creek, Deer Creek-Village Creek | Flood Measurement and Warning | 10.54 | Riverine | Burleson | Burleson | N | $500,000 | |
| 032000140 | City of Grand Prairie CIP Program | Improvement projects throughout the City of Grand Prairie | 03000007, 03000008, 03000031, 03000032, 03000035, 03000036 | Dallas | 1203010207, 1203010206 | Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Camp Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Long Branch-Buffalo Creek, Upper Big Brushy Creek, High Point Creek | Infrastructure Projects | 80.98 | Riverine | Grand Prairie | Grand Prairie | N | $243,000,000 | |
| 032000141 | Drainage improvement projects throughout the City of Hurst. | Drainage improvement projects throughout the City of Hurst. One improvement includes a detention pond. | 03000007, 03000008, 03000031, 03000032, 03000035, 03000036 | Tarrant | 1203010207, 1203010205 | Little Bear Creek, Headwaters Walker Branch, Walker Branch-West Fork Trinity River | Infrastructure Projects | 9.96 | Riverine | Hurst | Hurst | N | $18,000,000 | |
| 032000142 | Drainage improvement projects throughout the City of Garland. | Drainage improvement projects throughout the City of Garland. Some alternatives include detention ponds. | 03000007, 03000008, 03000031, 03000032, 03000035, 03000036 | Dallas | 1203010501, 1203010605, 1203010604 | White Rock Creek-White Rock Lake, Cottonwood Creek-East Fork Trinity River, Muddy Creek-Lake Ray Hubbard, Pittman Creek-Spring Creek, Brown Branch-Rowlett Creek, Rowlett Creek-Lake Ray Hubbard, Rush Creek-Lake Ray Hubbard, Duck Creek | Infrastructure Projects | 56.70 | Riverine | Garland | Garland | N | $105,000,000 | |
| 032000143 | Infrastructure improvements throughout the City of Terrell. | Infrastructure improvements throughout the City of Terrell such as storm drain updates, channel improvements, culvert improvements, railroad crossing upsizing, and street improvements. One improvement includes enhancing a channel with natural grass. | 03000007, 03000008, 03000031, 03000032, 03000035, 03000036 | Kaufman | 1203010701 | Headwaters Kings Creek | Infrastructure Projects | 5.16 | Riverine | Terrell | Terrell | N | $29,000,000 | |

**Region 3 - Table 14: Potentially Feasible Flood Management Strategies Identified by RFPG (cont.)**

| FMS ID (cont.) | FMS Name (cont.) | Area in 100yr (1% annual chance) Floodplain | Area in 500yr (0.2% annual chance) Floodplain | Estimated number of structures at 100yr flood risk | Residential structures at flood risk | Estimated Population at flood risk | Critical facilities at flood risk (#) | Number of low water crossings at flood risk (#) | Estimated number of road closures (#) | Estimated length of roads at flood risk (Miles) | Estimated farm & ranch land at flood risk (acres) | Number of structures with reduced 100yr (1% annual chance) Flood risk | Number of structures removed from 100yr (1% annual chance) Flood risk | Number of structures removed from 500yr (0.2% annual chance) Flood risk | Habitable structures removed from 100yr (1% annual chance) Flood risk | Estimated Population removed from 100yr (1% annual chance) Flood risk | Critical facilities removed from 100yr (1% annual chance) Flood risk (#) | Number of low water crossings removed from 100yr (1% annual chance) Flood risk | Estimated reduction in road closure occurrences | Estimated length of roads removed from 100yr flood risk (Miles) | Estimated active farm & ranch land removed from 100yr flood risk (acres) | Estimated reduction in fatalities (if available) | Estimated reduction in injuries (if available) | Cost/ Structure removed | Consideration of Nature-based Solution (Y/N) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | Water Supply Benefit (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 032000105 | City of Alvord NFIP Floodplain Ordinance | 0.12 | 0.03 | 0 | 0 | 0 | 0 | 0 | | 2 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000106 | City of Angus NFIP Floodplain Ordinance | 0.37 | 0.07 | 13 | 8 | 15 | 0 | 0 | | 2 | 94.39 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000107 | City of Bedias NFIP Floodplain Ordinance | 0.12 | 0.03 | 5 | 4 | 3 | 1 | 0 | | 0 | 19.52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000108 | City of Bynum NFIP Floodplain Ordinance | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | | 0 | 0.56 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000109 | Carl's Corner NFIP Floodplain Ordinance | 0.19 | 0.02 | 7 | 6 | 17 | 1 | 0 | | 0 | 28.19 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000110 | City of Combine NFIP Floodplain Ordinance | 2.03 | 0.37 | 202 | 196 | 514 | 0 | 0 | | 3 | 701.34 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000111 | Cayote Flats NFIP Floodplain Ordinance | 0.14 | 0.02 | 7 | 5 | 16 | 0 | 2 | | 0 | 15.78 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000112 | City of Dorchester NFIP Floodplain Ordinance | 0.15 | 0.04 | 0 | 0 | 0 | 0 | 0 | | 0 | 31.52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000113 | Draper NFIP Floodplain Ordinance | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | | 0 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000114 | City of Emhouse NFIP Floodplain Ordinance | 0.02 | 0.01 | 3 | 3 | 2 | 0 | 0 | | 0 | 10.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000115 | City of Eureka NFIP Floodplain Ordinance | 0.26 | 0.07 | 2 | 2 | 3 | 0 | 1 | | 2 | 90.13 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000116 | City of Goodlow NFIP Floodplain Ordinance | 0.42 | 0.08 | 12 | 12 | 11 | 1 | 4 | | 0 | 91.80 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000117 | Grays Prairie NFIP Floodplain Ordinance | 0.15 | 0.02 | 18 | 11 | 18 | 0 | 0 | | 0 | 75.90 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000118 | City of Hebron NFIP Floodplain Ordinance | 0.02 | 0.00 | 0 | 0 | 0 | 0 | 0 | | 0 | 0.23 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000119 | City of Iola NFIP Floodplain Ordinance | 0.04 | 0.01 | 6 | 4 | 2 | 0 | 0 | | 0 | 21.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000120 | City of Kirvin NFIP Floodplain Ordinance | 0.01 | 0.00 | 0 | 0 | 0 | 0 | 0 | | 0 | 0.84 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000121 | City of Latexo NFIP Floodplain Ordinance | 0.11 | 0.04 | 0 | 0 | 0 | 0 | 0 | | 0 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000122 | City of Leona NFIP Floodplain Ordinance | 0.29 | 0.07 | 9 | 8 | 3 | 0 | 0 | | 0 | 100.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000123 | City of Midway NFIP Floodplain Ordinance | 0.12 | 0.01 | 2 | 2 | 6 | 1 | 0 | | 0 | 41.81 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000124 | City of Mustang NFIP Floodplain Ordinance | 0.04 | 0.01 | 0 | 0 | 0 | 0 | 1 | | 0 | 5.52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000125 | City of Nevada NFIP Floodplain Ordinance | 0.09 | 0.02 | 4 | 4 | 7 | 0 | 0 | | 0 | 32.04 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000126 | Oak Grove NFIP Floodplain Ordinance | 0.14 | 0.01 | 3 | 1 | 1 | 0 | 0 | | 0 | 66.18 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000127 | Oak Valley NFIP Floodplain Ordinance | 0.29 | 0.04 | 11 | 9 | 25 | 0 | 0 | | 1 | 71.42 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000128 | City of Penelope NFIP Floodplain Ordinance | 0.20 | 0.02 | 0 | 0 | 0 | 0 | 0 | | 0 | 105.47 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000129 | Post Oak Bend NFIP Floodplain Ordinance | 0.15 | 0.03 | 6 | 5 | 4 | 0 | 0 | | 1 | 58.24 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000130 | Providence Village NFIP Floodplain Ordinance | 0.20 | 0.04 | 35 | 35 | 184 | 1 | 0 | | 1 | 30.07 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000131 | Town of Road Runner NFIP Floodplain Ordinance | 0.26 | 0.01 | 87 | 87 | 52 | 0 | 3 | | 0 | 17.10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000132 | City of Rosser NFIP Floodplain Ordinance | 0.45 | 0.10 | 35 | 31 | 46 | 0 | 0 | | 1 | 169.55 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000133 | City of Tehuacana NFIP Floodplain Ordinance | 0.07 | 0.01 | 3 | 1 | 2 | 0 | 0 | | 0 | 30.06 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000134 | City of Dallas Buyout of Repetitive Loss Properties | 111.18 | 10.96 | 11,792 | 10,753 | 89,527 | 148 | 193 | | 444 | 7,391.49 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000135 | City of Fort Worth HROM Program | 49.22 | 6.69 | 5,921 | 5,086 | 27,286 | 36 | 423 | | 185 | 7,266.13 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2 | 198 | N/A | N | N | N | N |
| 032000136 | City of Lindsay Flood Monitoring System | 0.36 | 0.05 | 36 | 24 | 39 | 0 | 0 | | 2 | 135.68 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000137 | Mobile City NFIP Floodplain Ordinance | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | | 0 | 0.00 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000138 | City of Fort Worth Open Space Conservation | 49.22 | 6.69 | 5,921 | 5,086 | 27,286 | 36 | 423 | | 185 | 7,266.13 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000139 | City of Burleson Flood Warning and Safety Improvements | 1.29 | 0.17 | 113 | 97 | 462 | 1 | 15 | | 4 | 372.21 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000140 | City of Grand Prairie CIP Program | 26.69 | 3.30 | 442 | 338 | 3,471 | 8 | 25 | | 40 | 1,927.26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N | N | N | N |
| 032000141 | Drainage improvement projects throughout the City of Hurst. | 0.69 | 0.20 | 289 | 280 | 1,281 | 2 | 10 | | 9 | 18.09 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000142 | Drainage improvement projects throughout the City of Garland. | 6.51 | 0.83 | 1,005 | 944 | 7,586 | 6 | 56 | | 30 | 627.50 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |
| 032000143 | Infrastructure improvements throughout the City of Terrell. | 0.55 | 0.12 | 27 | 20 | 262 | 3 | 0 | | 5 | 118.99 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Y | N | N | N |