

DRAFT Technical Memorandum

TO: Lower Brazos Regional Flood Planning Group DATE: December 12, 2025
FROM: Halff Associates, Inc. PROJECT: Halff AVO 54860
SUBJECT: Task 4B Technical Memorandum

Technical Memorandum Overview

As part of the 2028 Regional Flood Planning cycle, the Texas Water Development Board (TWDB) requires an interim submittal to evaluate the Regional Flood Planning Groups' (RFPG) progress in the development of their regional flood plans. This interim submittal is known as the Technical Memorandum (Task 4B) and includes a summary of the approaches, methods, decisions, findings, and results for Tasks 1 through 4A. Each of these tasks are described briefly below with the supporting data and results being provided in the attachments.

Information presented in this memorandum is considered preliminary and is subject to change as the Lower Brazos RFPG continues to incorporate new data and findings throughout the flood planning process, for the second planning cycle.

The Technical Memorandum is due to the TWDB on January 7, 2026.

Technical Memorandum Addendum Deliverables

Table 1 summarizes the information requested by the TWDB for the Technical Memorandum submittal from the Lower Brazos RFPG.

Table 1: Technical Memorandum Attachments

Attachment	TWDB Task	Description
1 (Geodatabase)	Task 1 Task 2A Task 2B Task 3A Task 3B Task 3C Task 4A	<p>A geodatabase including the following (substantially complete) feature classes:</p> <ul style="list-style-type: none"> • Entities • ExFldInfraPol • ExFldInfraLn • ExFldInfraPt • ExFldProjs • Watersheds • ExFldHazard • ExFldExpPol • ExFldExpLn • ExFldExpPt • ExFldExpAll • FutFldHazard • Ex_Map_Gaps • Fut_Map_Gaps • FutFldExpPol • FutFldExpLn • FutFldExpPt • FutFldExpAll • ExFldMng • Goals • Streams <p>And limited fields feature classes:</p> <ul style="list-style-type: none"> • FME • FMP • FMS • ModelCoverage
2 (Maps)	Task 2A Task 2B Task 4A	<p>TWDB required maps, including the following:</p> <ul style="list-style-type: none"> • Map 4: Existing Condition Flood Hazard • Map 5: Existing Condition Flood Hazard – Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas • Map 6: Existing Condition Flood Exposure • Map 7: Existing Condition Vulnerability and Critical Infrastructure • Map 8: Future Condition Flood Hazard • Map 9: Extent of Increase of Flood Hazard Compared to Existing Condition

		<ul style="list-style-type: none"> Map 10: Future Condition Flood Hazard – Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas Map 11: Future Condition Flood Exposure Map 12: Future Condition Vulnerability and Critical Infrastructure Map 14: Model Coverage Map 15: Greatest Gaps in Flood Risk Information Map 16: Greatest Flood Risk
3 (Tables)	Task 1 Task 3A Task 4A	<p>List</p> <ul style="list-style-type: none"> Entities with Flood Related Authority Infeasible & No Longer Relevant FMXs <p>Completed TWDB required Exhibit C Tables</p> <ul style="list-style-type: none"> Table 11: Goals <p>Limited Fields TWDB required Exhibit C Tables</p> <ul style="list-style-type: none"> Table 12: Identified Flood Management Evaluations Table 13: Identified Potentially Feasible Flood Mitigation Projects Table 14: Identified Potentially Feasible Flood Management Strategies
4 (Task 2 Memorandums)	Task 2A Task 2B	Memorandums provided to the Texas Water Development Board in support of the methodology used for development of the existing and future flood quilts.
5 (Task 3 Memorandums)	Task 3A	Memorandum provided to the Regional Flood Planning Group in support of the methodology used for development of the floodplain management standards and practices.
6 (Meeting Minutes)	Task 4B	RFPG December Meeting Minutes including written documentation that the RPG approved submittal of Technical Memorandum to the TWDB at a RFPG meeting subject to notice requirements in accordance with 31 TAC §361.21(h).
7 (Memo Checklist)	Tasks 1 – 4A	Technical Memorandum Administrative Completeness Checklist

Task 1: Planning Area Description

In Region 8, TWDB identified 605 political subdivisions with varying levels of flood-related authority. Broadly, “authority” includes any public entity involved in planning, regulating, building, or maintaining flood and drainage infrastructure; narrowly, it refers only to those able to enact and enforce floodplain regulations, such as municipalities, counties, and river authorities. **Table 2** summarizes entity types in the region, and the full list appears in **Attachment 3**.

Table 2: Summary of Entity Types

Entity Types	Number of Entities	NFIP Participants
Municipality	193	163
County	43	41
River Authority	5	0
Flood Districts	5	0
Water Supply, Improvement, Utility Districts, MUDs, FWSDs, MWDs, SUDs, COGs, WCIDs, Drainage Districts, Ports, Navigation Districts	359	12

Source: TWDB Data Hub and NFIP Community Status Book

Geospatial files for political subdivisions that have flood-related authority can be found in **Attachment 1**. The geodatabase feature classes named ‘Entities’ and ‘ExFldMng’ show the locations of current political subdivisions responsible for flood-related matters.

Task 2: Existing and Future Conditions Flood Risk Analyses

The overarching goal of Task 2 is to quantify flood risk and flood exposure across the region. The primary effort under this task is the development of a flood risk layer (“Floodplain Quilt”), based on various data sources, which delineates the flood extents for both pluvial and fluvial flood events for the 10-percent, 1-percent, and 0.2-percent ACE.

On January 27, 2025, the TWDB provided the RFPGs with a draft Floodplain Quilt to establish a starting point for identifying flood risk within the region for Task 2. The Draft Floodplain Quilt consists of flood risk boundaries compiled from several sources including:

- FEMA Data: Pending, Preliminary, Detailed, and Approximate layers
- Estimated Base Flood Elevation Viewer Data (Base Level Engineering or BLE)
- First American Flood Data Services (FAFDS)

On March 14, 2025, the TWDB provided the RFPGs with Existing Conditions Cursory Floodplain data to estimate flood risk in locations where other information is unavailable for Task 2.

The Lower Brazos RFPG also performed its own outreach effort to solicit and gather models from communities throughout the region. This included flood inundation raster’s produced by the General Land Office’s (GLO) River Basin Study that covered much of the southern portion of the region.

Future Conditions Cursory Floodplain data became available on April 17, 2025. In order to support updates to other modeling data sources to create detailed future conditions flood hazard data, the Final Report and various input datasets to the Cursory Floodplain modeling effort were provided May 1, 2025, and July 11, 2025.

The Lower Brazos RFPG's technical consultant team reviewed all available data to determine the accuracy and coverage provided by the various models and flood risk datasets. Based on this review, a data prioritization methodology was developed to determine which sources of information should take precedence in areas of overlapping data. The prioritization approach ultimately used is shown below.

Task 2A – Flood Hazard Layer Data Prioritization:

1. Detailed FEMA Data (Zone AE & VE)
2. Community Models / Maps
3. Pluvial Cursory Floodplain Data for urban areas with populations greater than 5,000
4. Base Level Engineering (BLE) 2D
5. Maximum of BLE 1D and Cursory Floodplain Data

Attachment 4 includes a technical memorandum that provides a more detailed explanation of the basis of this prioritization for the existing conditions flood quilt.

Based on the data prioritization, a flood hazard layer was developed to characterize flood risk throughout the Lower Brazos region. The Lower Brazos RFPG reviewed the draft flood risk layer and approved it on September 18, 2025. The resulting layer is not regulatory in nature but is instead intended to represent a comprehensive look at the best available flood risk information available across the region. Public comment was accepted through the Lower Brazos Regional Flood Planning website (lowerbrazosflood.org/Resources#3180) where the draft flood risk layer was posted.

The Lower Brazos RFPG developed an approach, with accompanying justification, for creating the Task 2B Future Conditions Flood Hazard Layer and initiated a request for its approval to the TWDB on May 28, 2025. The approach was approved on July 15, 2025, and is provided in **Attachment 4**.

In addition to utilizing Future Conditions Cursory Floodplain (scenario 4) polygon data, the following techniques were used to create future conditions flood hazard data from other sources:

- 1D BLE water surface elevation data was increased using the spatially varied depth difference between Scenario 3 and Scenario 5 of the Cursory flood depth rasters.

- 2D BLE and GLO models were recomputed using modified precipitation or flow hydrograph boundary conditions. Updates considered increases to impervious cover, rainfall, and sea level rise consistent with Cursorsy Floodplain scenario 3 (significant climate forcing). Based on fluvial change factors not showing increases in the Lower Brazos River watershed, Brazos River and other major riverine inflow hydrograph boundary conditions were left unchanged from existing conditions within these models.

During the analysis, it was discovered that 2D BLE data used depth-area reductions in the Lower Brazos HUC8, which the study team determined to be underrepresenting flood risk significantly. As a result, the team decided to limit the data sources in this area to GLO and Cursorsy data.

As is the case with the existing conditions flood hazard layer, the future layer is not a regulatory product. Instead, it can be used as a planning tool to identify areas of the region potentially subject to future increases in flood risk. The Future Conditions Flood Hazard layer was reviewed by the Lower Brazos RFPG and approved during the December 18, 2025, RFPG meeting.

A preliminary exposure analysis was performed to determine the number of at-risk structures (buildings, roadways, critical facilities, etc.), population estimates, the length of impacted roadways and area of agricultural land contained within the previously developed existing conditions flood hazard boundary. The same exposure analysis was performed using the future conditions flood hazard data, with the only difference being the addition of anticipated future residential buildings. These features were added to the buildings dataset based on population growth and various spatial weighting factors, including proximity to existing development and major thoroughfares. The Existing Floodplain Management Practices layer was used to identify areas that regulate to higher standards, where flood frequencies for anticipated future residential buildings were considered “unknown,” assuming that any development would be subject to freeboard requirements. In areas not regulating to higher standards, the flood frequency for all buildings was determined based on the highest frequency the building intersects in the future conditions flood hazard layer, which is the same methodology used for the existing conditions exposure analysis. **Table 3** provides overall Lower Brazos Region 8 flood exposure results.

Following the exposure analysis, a preliminary vulnerability analysis was performed for existing and future conditions using the Social Vulnerability Index (SVI) dataset. The vulnerability analysis assesses a community’s resilience, with values closer to 1 denoting greater vulnerability.

A geodatabase and associated maps including the existing and future conditions flood hazard layer, exposure, and vulnerability results are provided in **Attachment 1** and **Attachment 2** as digital data.

Table 3: Lower Brazos (Region 8) Summary of Existing and Potential Future Flood Exposure Analysis Results

Potential Flood Risk Event	Number of At-Risk Structures	Number of At-Risk Critical Facilities	Number of Road Crossings at Risk*	Impacted Agricultural Area (sq. mi.)
Existing 1% Annual Chance (100-year)	177,290	1,866	1,077	1,184
Future 1% Annual Chance (100-year)	231,632	2,731	1,083	1,295

**representative of low water crossings*

Task 3A: Evaluation and Recommendations on Floodplain Management Practices

The Lower Brazos Regional Flood Planning Group (RFPG) solicited local entity and public input in developing floodplain management practices and flood protection goals for the Lower Brazos Planning Region. As a result, floodplain management standards were developed to both reduce existing flood risk and minimize the creation of future flood risk by encouraging the implementation of consistent floodplain management policies throughout the region. These floodplain management standards were approved by the Lower Brazos RFPG during the Lower Brazos RFPG meeting on August 21, 2025.

Floodplain management standards fall into two main categories, adoption and recommendation. Recommended standards are general guidelines for consideration by the floodplain regulating entities in the region. Adopted standards are specific minimum standards that should be adopted by the entities within the region. Adopted standards must be implemented by entities prior to the Lower Brazos RFPG including any flood management evaluations, flood management strategies, or flood mitigation projects for the entity in the Regional Flood Plan. Based on feedback from the Lower Brazos RFPG during the monthly meeting on May 15, 2025, all floodplain management standards developed for the Lower Brazos Flood Planning Region are only recommended. These standards are intended to be used as general guidelines by the entities within the region.

The recommended standards for consideration are divided into two distinct categories:

1. Standards for region-wide recommendation, and
2. Standards recommended for smaller “zones” within the Lower Brazos Planning Region delineated along county boundaries.

These categories allow for a broad application of standards and a tailored formulation for capturing flood risk variability, natural hydrography, topography, climatological effects, and demographics throughout the region. The different categories of standards are described further in subsequent sections, along with definitions of each standard. **Table 4** provides a summary of the *recommended* floodplain management standards for the Lower Brazos Region.

A separate memorandum documenting the evaluation and recommendations on floodplain management practices was developed and presented to the Lower Brazos RFPG for review and approval. This memorandum is included as **Attachment 5**. Along with the memorandum, the TWDB-required feature class for Existing Floodplain Management Practices (‘ExFldMng’) was completed conforming to Exhibit D Table 22 and is included in a geodatabase included with **Attachment 1**.

Table 4: Summary of Lower Brazos Recommended Floodplain Management Standards

Recommended Floodplain Management Standard	Region Wide	Zone 1 "Coastal"	Zone 2 "Upper Coastal"	Zone 3 "Brazos Valley"	Zone 4 "Middle Brazos"
National Flood Insurance Program Participation	X				
Compensatory Storage Requirement in 1% Floodplain	X				
No Adverse Impacts for the 1% Storm Event	X				
Improved Flood Response	X				
Improved Flood Risk Awareness/Education	X				
Use of Best Available Rainfall Data	X				
No Adverse Impacts for the 1% and 10% Storm Event		X	X	X	
Formation of a Voluntary Buyout Program		X			
Long-term Operation and Maintenance Planning of Drainage Infrastructure		X			
Drainage Corridor Preservation			X	X	
Compensatory Storage Requirement in 0.2% Floodplain				X	X
Requirements for Culvert and Bridge Crossings				X	X
Roadway Requirements within the Floodplain				X	X
Culvert and Bridge Hydrologic and Hydraulic Analysis Requirement				X	X

Task 3B: Flood Mitigation Needs Analysis

The objective of the Flood Mitigation Needs Analysis is to identify the areas of greatest known flood risk and areas where the greatest flood risk knowledge gaps exist. This will support the identification of FMEs, FMSs, and FMPs to reduce those known flood risks. The geospatial assessment used HUC 12 watersheds as the base units for scoring, with 559 identified in the Lower Brazos region.

The areas with existing hydrologic and hydraulic models available to perform FMEs and evaluate FMSs and FMPs are identified in Map 14 as Extent of Model Coverage included in Attachment 2. There are models available in various locations across the region, with the broadest extent of detailed model coverage being in Austin, Waller, Fort Bend, and Brazoria counties. While there is substantial model coverage in the North Bosque River watershed used to identify FMPs, most of the coverage is a non-detailed model used to analyze hydrology for the City of Clifton. Therefore, further refinement of much of the model area would be needed to leverage this model for identifying FMEs, FMSs, or FMPs.

To identify locations with the most significant gaps in flood risk knowledge, the following factors were evaluated:

- Quality of hydrologic and hydraulic models and resulting flood hazard mapping
- Projected population growth to 2040

First, HUC12s were assigned a modeling and mapping score based on the best quality model data available covering a majority of developed areas within the watershed. If a HUC12 watershed includes at least 1 square mile of area of a municipality with a population greater than 5,000, the HUC12 was considered urban. Detailed modeling for both pluvial and fluvial flood types is needed to achieve a modeling and mapping score of 0 for urban watersheds. For non-urban watersheds, only detailed fluvial modeling is needed to achieve a modeling and mapping score of 0. Assigned scores are shown in **Table 5** below.

Table 5: Flood Risk Knowledge Gaps Modeling & Mapping Scoring Criteria

Scoring	0	1	2	3
Available Modeling / Mapping Data	Detailed (pluvial AND fluvial)	Detailed (pluvial OR fluvial)	2D BLE or ROG	1D BLE/Cursory Floodplain Data

Detailed modeling was identified using the Model Coverage layer located in Map 14 in **Attachment 2**. Descriptions and model creation dates were reviewed to determine which hydraulic models were likely to reference Atlas 14 rainfall data and include bridges and culverts, which the Lower Brazos RFPG would consider as reflecting a higher level of detail

than 2D BLE modeling. All identified hydraulic models utilized either Infoworks ICM or HEC-RAS. Infoworks ICM models were assumed to be detailed pluvial models since the Lower Brazos RFPG generally defines a detailed pluvial model as one that includes sub-surface drainage infrastructure, and ICM is commonly used for this application. However, due to very limited coverage of detailed pluvial modeling, no HUC12 watersheds classified as urban achieved a score of 0. On the other hand, non-urban areas with detailed fluvial model coverage achieved a score of 0.

Watersheds with high projected population growth will likely be subject to changes in hydrologic and hydraulic characteristics. In these cases, updated modeling is especially necessary to understand existing flood risk and avoid impacts associated with rapid development. To account for this need, once modeling and mapping scores were established, they were multiplied by a population growth factor to calculate the Flood Risk Knowledge Gap score. All HUC12 watersheds with a projected 2040 population of less than 5,000 or a decrease in population were assigned a base multiplier of 1. The remaining watersheds expecting population growth to exceed 5,000 by year 2040 were assigned multipliers according to their percentile group. Growth factors were calculated in accordance with **Table 6** below:

Table 6: Flood Risk Knowledge Gaps – Population Growth Criteria

Multiplier	1	1.25	1.5	1.75	2
Population Growth (2040)	0 to 20 pct	20 to 40 pct	40 to 60 pct	60 to 80 pct	80 to 100 pct

As shown in Map 15 (included in **Attachment 2**), areas with the highest flood risk knowledge gaps include the following:

- Interstate 35
- Bryan-College Station area
- Areas near the cities of Hearne and Cameron
- Areas southwest of Dallas-Fort Worth metroplex

These areas have flood risk knowledge gap scores of 3.5 or higher, indicating that they would benefit from updated modeling and mapping based on both projected population growth and lack of detailed modeling. HUC12s were assigned “medium” if values fell between 2 and 3.5, and “low” if values were 2 or below. Values of 2 or lower indicate that detailed modeling is available in the area.

Aligned with TWDB’s Technical Guidelines in Exhibit C, **Table 7** summarizes these guidelines and the criteria used to evaluate flood mitigation needs and to determine the flood risk scores.

Table 7: Flood Risk Scoring Factors Considered

Categories	Factors Considered
Most Prone to Flooding that Threatens Life and Property	Buildings Low Water Crossings Agricultural Areas Critical Facilities Inundated Roadway Mileage
Emergency Need	Damaged or Failing Infrastructure
Historical Flood Events	Disaster Declarations FEMA Claims Flood Related Fatalities
Other Factors	Social Vulnerability Index (SVI)

A comprehensive data collection and stakeholder outreach effort was conducted across Region 8 to identify flood-prone areas, including those located outside established flood hazard boundaries. These areas were identified through input from regional stakeholders and supplemented with public datasets, hydrologic feature data, historical flood events, and local knowledge.

Key public datasets used in this effort included:

- **National Hydrography Dataset (NHD):** Lake areas susceptible to flooding.
- **U.S. Army Corps of Engineers (USACE):** Leveed areas with flood risk.
- **NOAA Storm Events Database:** Records of past storm-related flooding.

This data informed a geospatial assessment in which scoring metrics were applied to various locations based on factors listed in **Table 7**. The assessment utilized 10 distinct data categories, each scored using percentile-based ranges to ensure consistent evaluation across the region. Detailed scoring criteria for each category are presented in **Table 8**.

Table 8: Flood Risk Scoring Criteria

Category	Score (Points)					
	0	1	2	3	4	5
Number of Buildings in Flood-Prone Areas	0	1 - 20	21 - 45	46 - 116	117 - 349	350+
Number of Low Water Crossings	0	1.0	2.0	-	2.1 - 4.0	5+
Agricultural Areas in Flood Prone Areas (Acres)	0	1 - 112.3	112.4 - 301.3	301.4 - 821.7	821.8 - 2299.2	2299.3+
Number of Critical Facilities in Flood-Prone Areas	0	1 - 1.9	2 - 3.9	4 - 4.9	5 - 65.9	66+
Damaged or Failing Infrastructure	0	1	-	-	2 - 3	4+
Number of Disaster Declarations	0	1 - 9	10 - 11	12	13	14+
Number of FEMA Claims	0	1	2	3 - 6	7 - 17	18+
Flood Related Fatalities	0	1	2	3 - 4	5	6+
Social Vulnerability Index	0	0.1 - 4.2	4.3 - 6.3	6.4 - 9.7	9.8 - 17.1	17.2+

As shown in Map 16 included in **Attachment 2**, the scoring range of Low-High correlates to the percentile of the total score the category falls in. HUC-12 areas identified as having the greatest flood risk are spread across the Lower Brazos River watershed, with clusters of particularly high-risk zones concentrated in specific locations. Areas in Fort Bend County and Brazoria County are driven by high flood claims, flood related fatalities, and buildings in flood prone areas. In the middle section of the region, watersheds in Williamson County and McLennan County score higher due to damaged or failing infrastructure and low water crossings.

Task 3C: Flood Mitigation and Floodplain Management Goals

Part of the requirements set forth by the Texas Water Development Board include Task 3C – Flood Mitigation and Floodplain Management Goals. This task includes setting specific and achievable goals along with target years, with benchmarks for short-term (10 years) and long-term (30 years) goals. During the first planning cycle, the region adopted ten Flood Mitigation and Floodplain Management goals, with various short-term and long-term goal benchmarks. For the second planning cycle, the Lower Brazos RFPG elected to continue with the same series of goals, including minor modifications to text and benchmark items. The RFPG also elected to add a goal to reduce the impacts of flood risk on agricultural areas. As required, each of the goals falls under one of the themes provided by the TWDB in its guidance document, “Exhibit C”.

A full description of the goals, including target years, residual risk, and how the goals will be measured are included in TWDB Table 11 in **Attachment 3** and in digital format in **Attachment 1**.

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

For Task 4A, the Lower Brazos RFPG solicited communities to submit their flood mitigation needs (FMXs), including flood management evaluations (FMEs), flood mitigation projects (FMPs), and flood management strategies (FMSs) starting in April 2025. An FMX Request Form was developed and distributed to regional stakeholders (cities, counties, and other entities) to simplify the process of submitting flood mitigation needs. From this outreach effort, the Lower Brazos RFPG received requests for 98 FMXs. These 98 identified FMXs are in addition to the 717 FMXs previously identified in the 2023 Lower Brazos Regional Flood Plan.

However, not all FMXs identified in the region satisfy Lower Brazos RFPG and TWDB guidelines for inclusion in the 2028 Lower Brazos Regional Flood Plan. Many items collected during the first planning cycle represent outdated or unsupported needs. These items are unlikely to ever be carried forward for funding or implementation by a community. The Lower Brazos RFPG developed a process to filter out these items that are “No Longer Relevant” or “Infeasible”. This process was applied to the 98 FMXs received as part of the outreach performed for the 2028 Lower Brazos Regional Flood Plan, as well as to the existing

list of 717 FMX items gathered in the 2023 Lower Brazos Regional Flood Plan. **Figure 1** shows the process used for this filtration. Fifty FMXs were identified as ‘Infeasible’ due to their small service area and an additional 37 FMXs were identified as ‘No Longer Relevant’ due to their source date and lack of sponsorship approval.

The items determined to be “Potentially Feasible” were then further evaluated to determine which FMX category they align with. Flood Mitigation Projects (FMPs) in particular require a significant amount of supporting data and analyses to meet TWDB and Lower Brazos RFPG criteria. The process for categorizing FMXs is shown in **Figure 2**. Both processes were reviewed in advance by the Lower Brazos RFPG and approved on July 17, 2025.

The 98 FMXs received during outreach efforts for the 2028 Lower Brazos Regional Flood Plan were preliminarily processed through both matrices using available data. However, ongoing coordination with communities may provide additional information leading to the reclassification of these items.

Limited field tables summarizing the FMEs, FMPs, and FMSs for the Lower Brazos region can be found in **Attachment 3** (TWDB Tables 12, 13, and 14) along with a list of FMXs identified but found to be infeasible or no longer relevant. **Attachment 1** provides this data in a digital format. **Table 9** provides a summary of the potentially feasible FMXs identified.

Table 9: Summary of FMXs for Region 8

FMX Type	From 2023 RFP	Additional with 2028 RFP	Total
FME	430	21	451
FMP	57	75	132
FMS	143	2	145
Infeasible	50	0	50
No Longer Relevant	37	0	37
Total	717	98	815

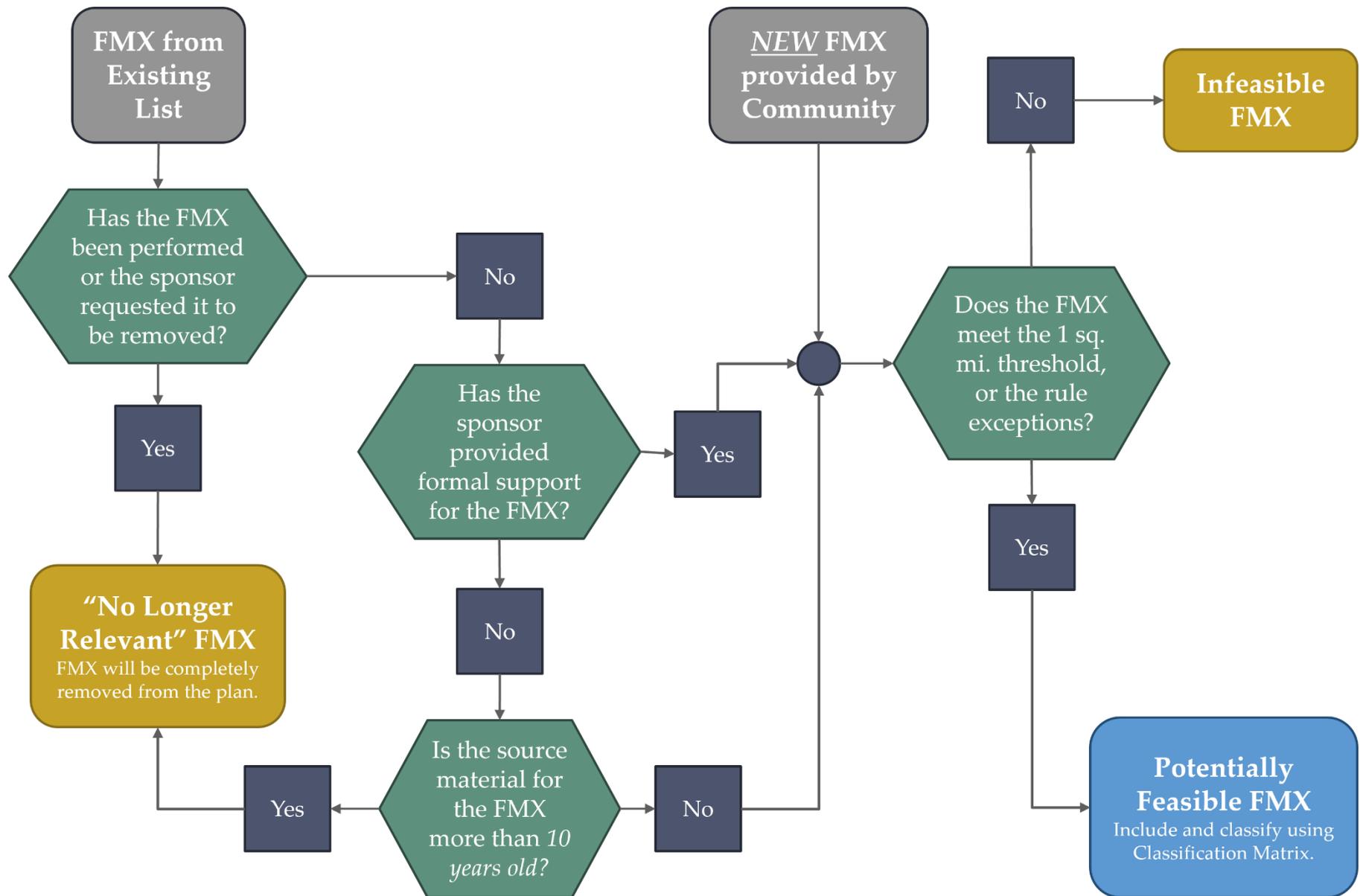


Figure 1: FMX Feasibility Process Flow Chart

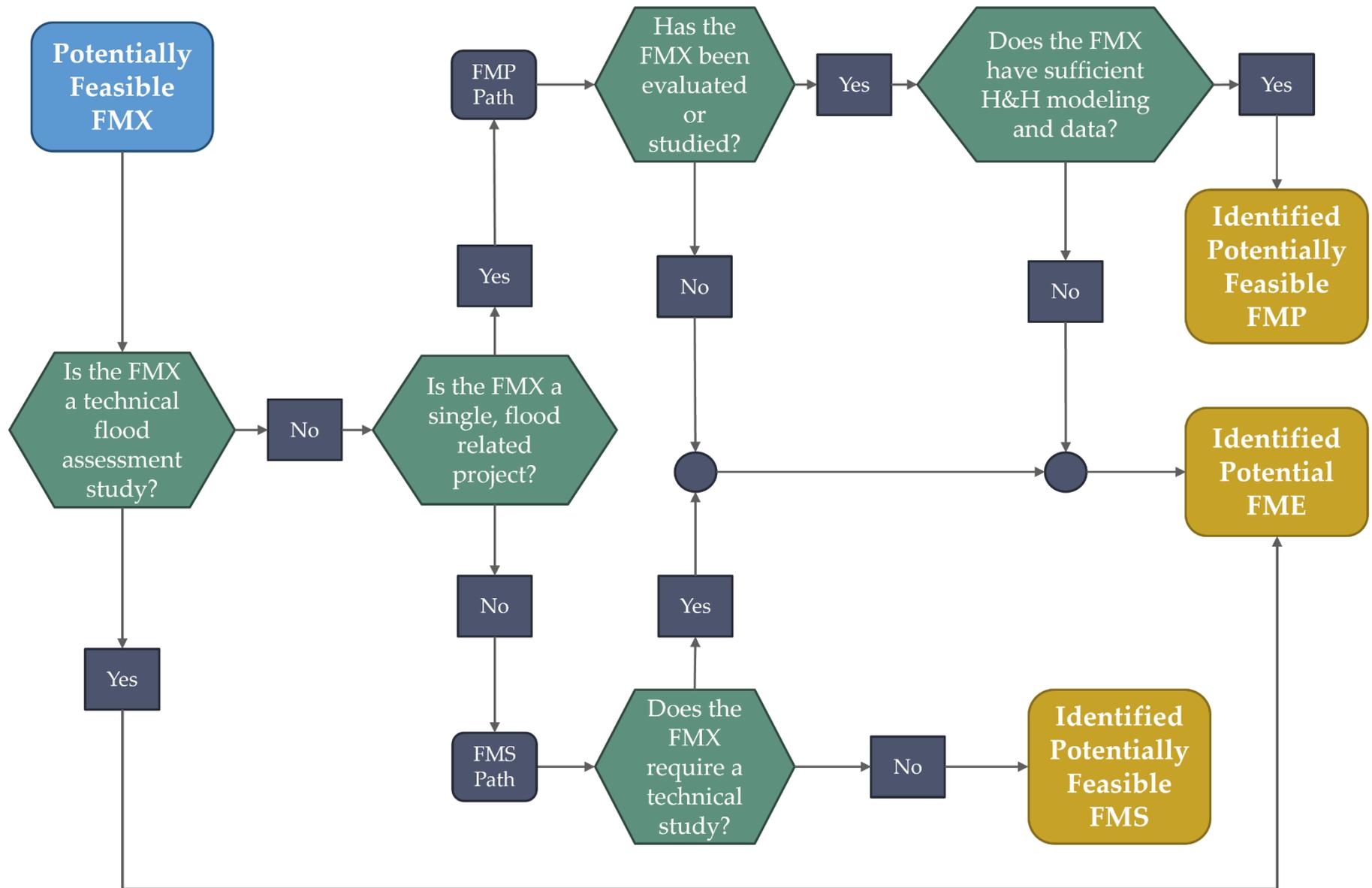


Figure 2: FMX Classification Process Flow Chart

Task 4B: Preparation and Submission of Technical Memorandum

Several datasets were collected and used to inform the analyses performed for Tasks 1 – 4A; this information was included in the preparation of this Technical Memorandum for Task 4B. Flood related studies and hydrologic and hydraulic modeling within the region provide valuable insight on flood risk and community priorities. Several models and studies were also provided to the Lower Brazos RFPG through public outreach efforts. Additional publicly available items were collected by the technical consultant to be used in support of the 2028 Lower Brazos Regional Flood Plan development.

Task 2A – Existing Conditions Flood Risk Analysis is heavily dependent on the availability of flood risk datasets to identify what infrastructure in the region may be prone to flooding. This task subsequently impacts many other evaluations throughout the flood planning process, including Tasks 3B and 4A included in this memorandum. Some of the studies and associated models most impactful to the development of the 2028 Lower Brazos Regional Flood Plan are summarized in **Table 10**.

Table 10: Available Models and Studies Considered Relevant to the Development of the 2028 Lower Brazos RFP

Study Name	Use in Regional Flood Plan	Associated Model ID
Lower Brazos Flood Protection Planning Study, 2019	Information and hydrology developed within this study formed the foundation for several succeeding models used in the development of the Regional Flood Plan.	NA
Hydrologic and Hydraulic Analysis of the Brazos River, 2021	Results from this study characterize flood risk for the Brazos River throughout portions of Fort Bend and Brazoria counties. Results of the associated watershed studies and models provide supporting data for many FMPs included in the Regional Flood Plan.	08-27-0000000001, 08-27-0000000002, 08-27-0000000003, 08-27-0000000004, 08-27-0000000005, 08-27-0000000006, 08-27-0000000007, 08-27-0000000008, 08-27-0000000009, 08-27-0000000010, 08-27-0000000014, 08-27-0000000015, 08-27-0000000033, 08-27-0000000034
Brazos River Flood Update Study, 2024	Results from this study characterize flood risk for the Brazos River throughout portions of Waller, Austin, and Brazos counties.	08-27-0000000014, 08-27-0000000015
Central Region GLO River Basin Studies, 2025	Results from these studies characterize flood risk for much of the lower portion of the region.	08-27-0000000101, 08-27-0000000102, 08-27-0000000103, 08-27-0000000104, 08-27-0000000105, 08-27-0000000106, 08-27-0000000107, 08-27-0000000108, 08-27-0000000109

In addition to the studies and models described in the table, many local master drainage plans and flood infrastructure fund studies were provided by sponsors in support of their FMPs. Studies were also performed by the Lower Brazos RFPG during the first planning cycle that produced updated flood risk information for several rural communities and identified potential flood risk mitigation projects. Another impactful study that is currently underway is the *Brazos River Watershed Hydrology Assessment (WHA)*, performed by the Interagency Flood Risk Management (InFRM) group consisting of the Federal Emergency Management Agency, US Army Corps of Engineers, US Geological Survey, and the National Weather Service. This assessment is using historical data and statistical analyses to perform detailed modeling of hydrology for large rivers throughout the region. All of the models utilized in the development of the 2028 Lower Brazos Regional Flood Plan to date are summarized in the Model Coverage feature class provided as digital data in **Attachment 1**.

The Technical Memorandum was developed in adherence with the requirements specified in the Scope of Work, Exhibit C, and Exhibit D developed by the TWDB for the 2028 Regional Flood Planning Cycle. The TWDB provided an Administrative Checklist detailing the submittal requirements for the Technical Memorandum on November 3, 2025. This checklist was completed and provided as **Attachment 7**. The required items are referenced in **Table 1** of this document and throughout the text of relevant sections. **Attachment 1** contains all geodatabase deliverables, **Attachment 2** contains all Map deliverables, **Attachment 3** contains all TWDB table and list deliverables, and **Attachments 4 and 5** contain supplemental documentation developed in support of the Lower Brazos RFPG's performance of Tasks 1 – 4A. All information and supporting data provided as part of this Technical Memorandum will continue to be updated and enhanced throughout the development of the 2028 Lower Brazos Regional Flood Plan as more information is collected and analyzed.

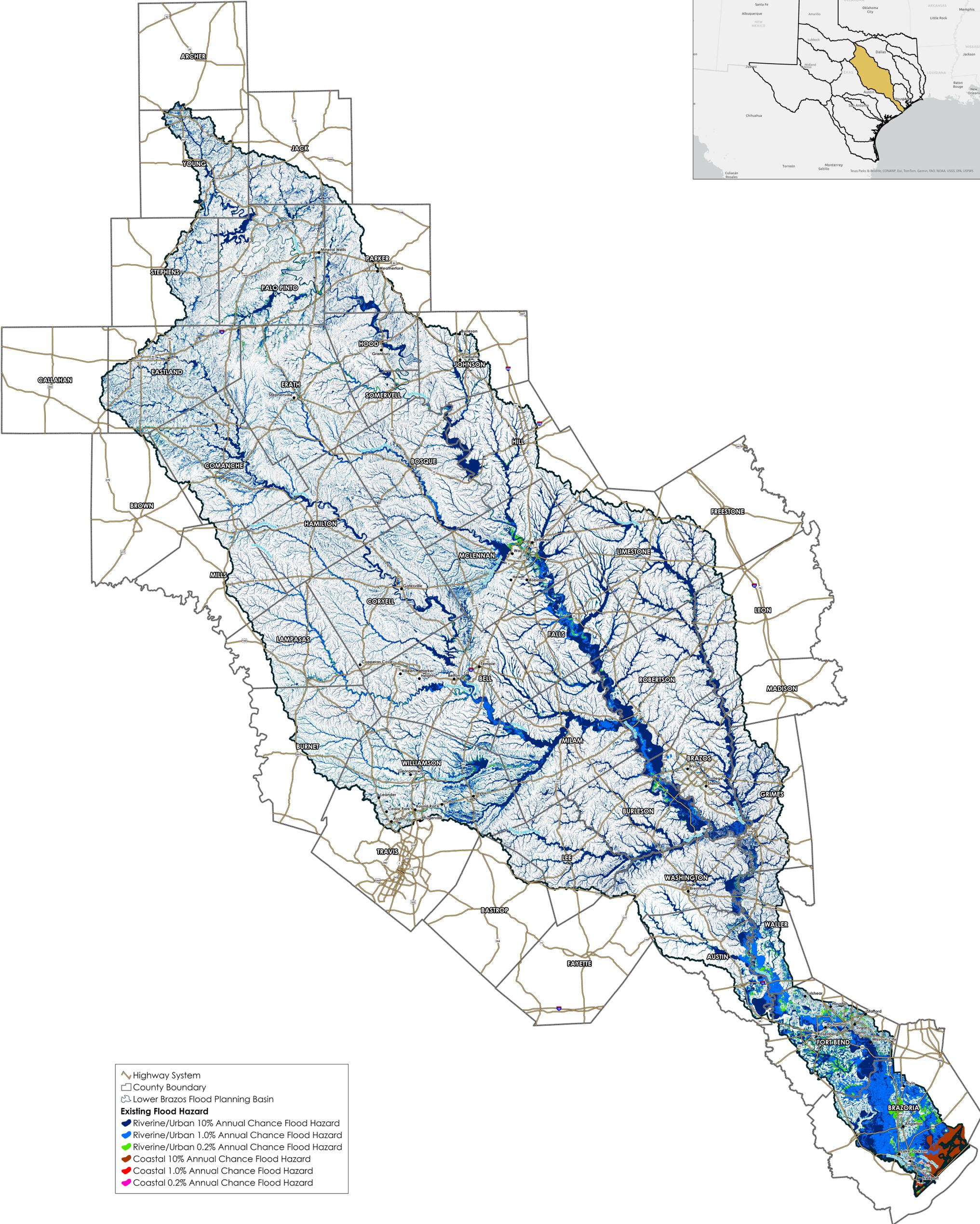
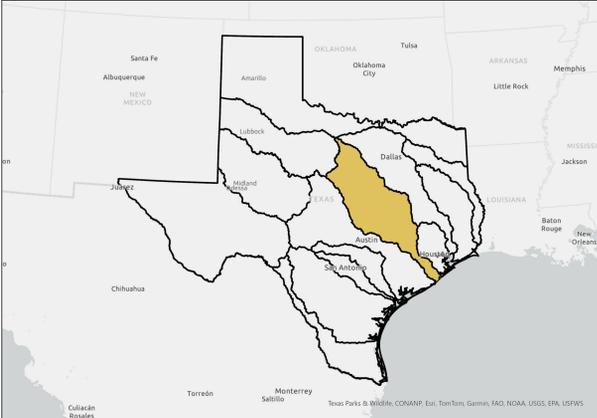
The Lower Brazos RFPG voted to approve this Technical Memorandum with non-substantive changes on December 18, 2025. Documentation of this action is provided in **Attachment 6** in the form of Lower Brazos RFPG meeting minutes. This Technical Memorandum will be submitted to the TWDB in accordance with Section 1 Article 1 of the contract, no later than January 7, 2026.

Attachment 1

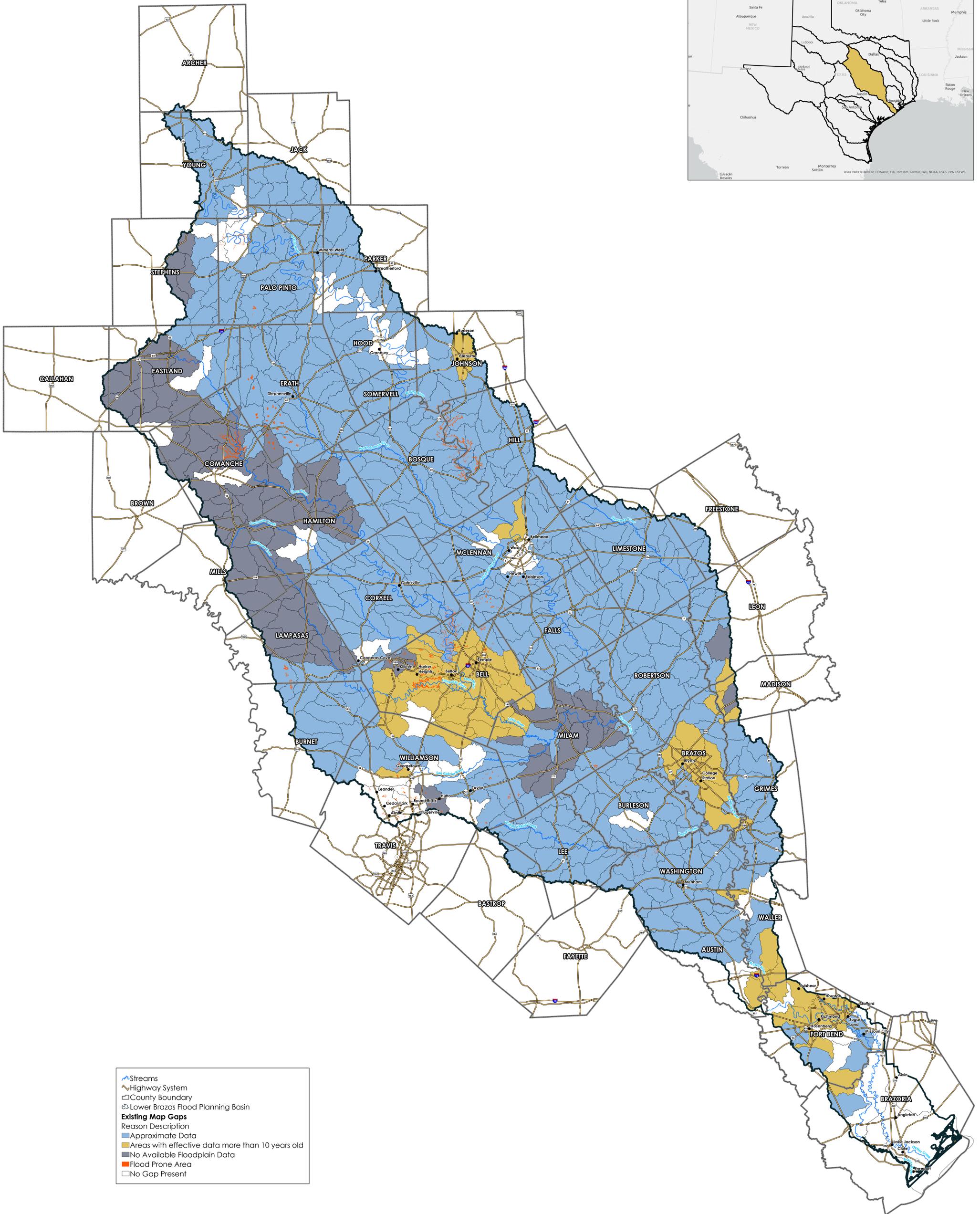
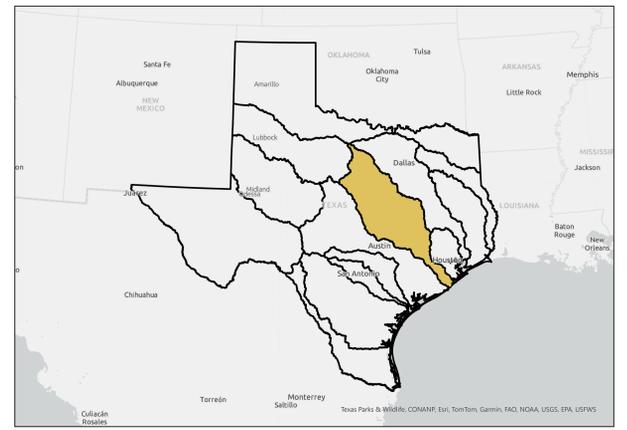
TWDB geodatabase including the required feature classes.

Attachment 2

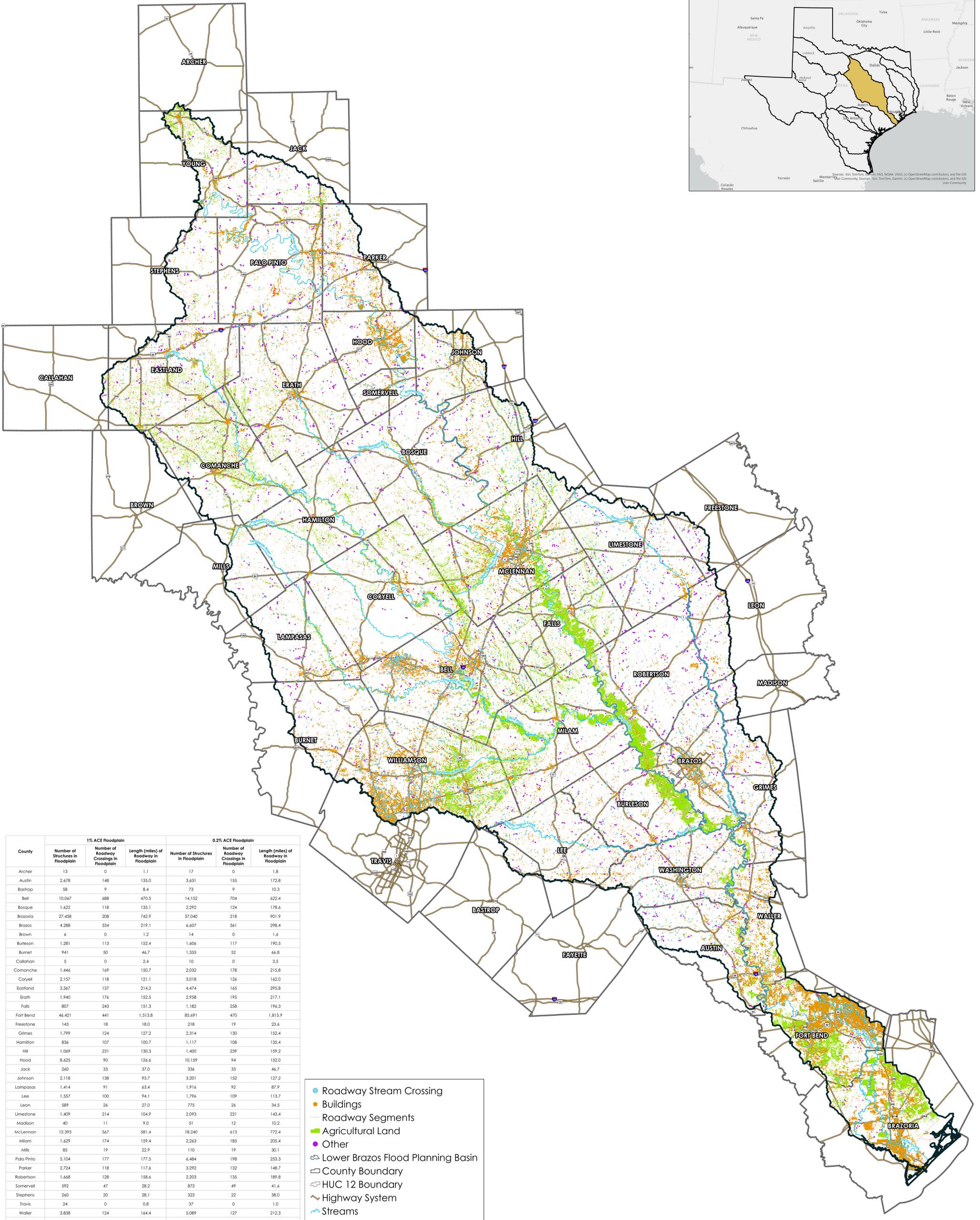
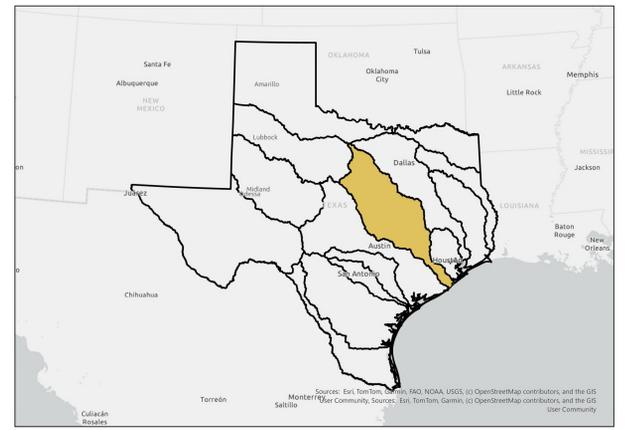
TWDB required maps.



Highway System
 County Boundary
 Lower Brazos Flood Planning Basin
Existing Flood Hazard
 Riverine/Urban 10% Annual Chance Flood Hazard
 Riverine/Urban 1.0% Annual Chance Flood Hazard
 Riverine/Urban 0.2% Annual Chance Flood Hazard
 Coastal 10% Annual Chance Flood Hazard
 Coastal 1.0% Annual Chance Flood Hazard
 Coastal 0.2% Annual Chance Flood Hazard

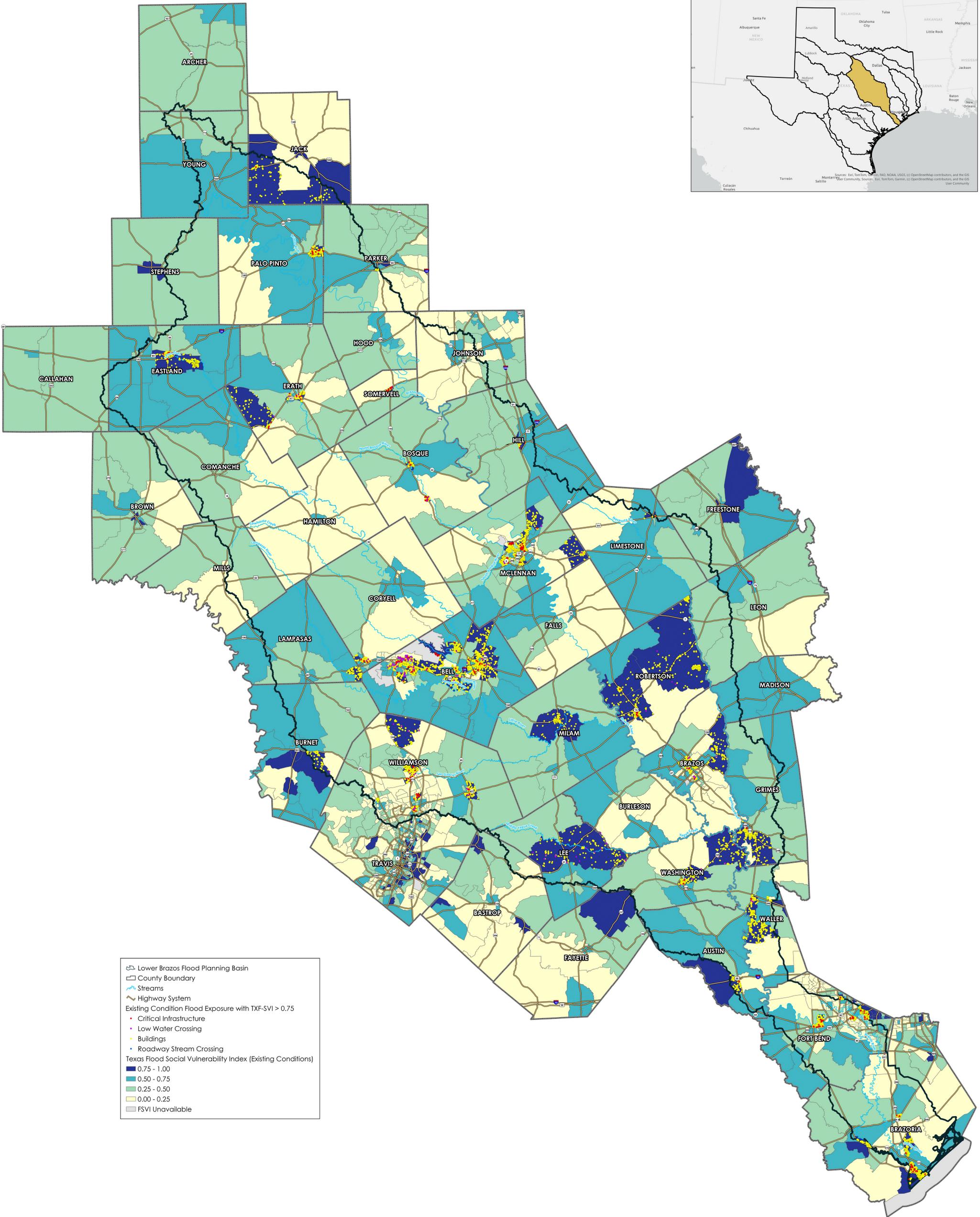


Streams
 Highway System
 County Boundary
 Lower Brazos Flood Planning Basin
Existing Map Gaps
 Reason Description
 Approximate Data
 Areas with effective data more than 10 years old
 No Available Floodplain Data
 Flood Prone Area
 No Gap Present

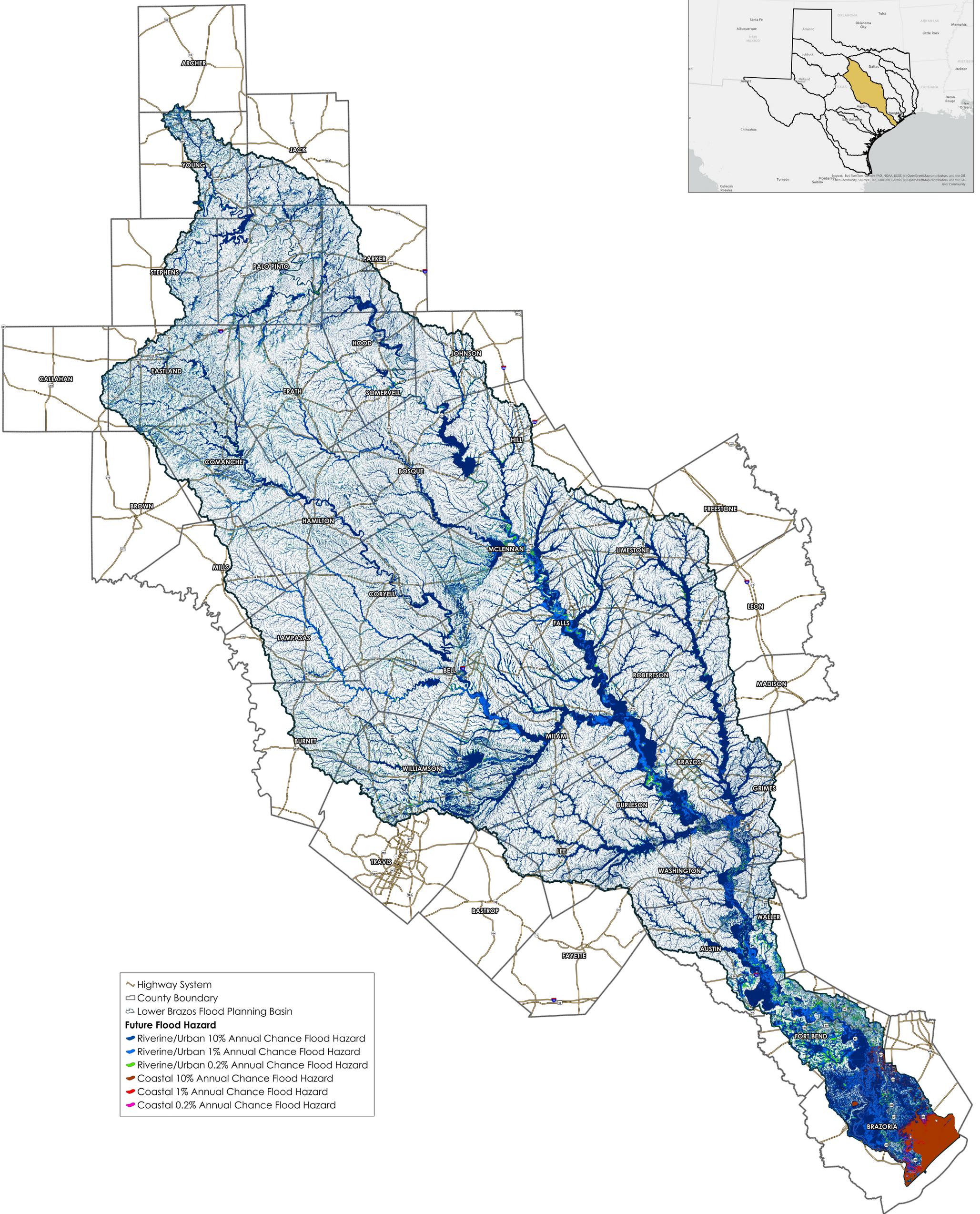


County	1% ACE Floodplain			0.2% ACE Floodplain		
	Number of Structures in Floodplain	Number of Roadway Crossings in Floodplain	Length (miles) of Roadway in Floodplain	Number of Structures in Floodplain	Number of Roadway Crossings in Floodplain	Length (miles) of Roadway in Floodplain
Archer	13	0	1.1	17	0	1.8
Austin	2,678	148	135.0	3,631	155	172.8
Bastrop	58	9	8.4	73	9	10.3
Bell	10,067	688	470.5	14,152	704	622.4
Bosque	1,622	118	135.1	2,292	124	178.6
Brazoria	27,458	208	742.9	37,040	218	901.9
Brazos	4,288	334	219.1	6,607	361	298.4
Brown	6	0	1.2	14	0	1.6
Burleson	1,281	113	152.4	1,606	117	190.5
Burnet	941	50	46.7	1,355	52	66.8
Callahan	5	0	2.4	10	0	3.5
Comanche	1,446	169	150.7	2,032	178	215.8
Coryell	2,157	118	121.1	3,018	126	162.0
Eastland	3,367	137	214.2	4,474	165	295.8
Erath	1,940	176	152.5	2,958	195	217.1
Falls	807	243	151.3	1,182	258	196.3
Fort Bend	46,421	441	1,513.8	85,691	470	1,815.9
Freestone	143	18	18.0	218	19	23.6
Grimes	1,799	124	127.2	2,314	130	152.4
Hamilton	836	107	100.7	1,117	108	135.4
Hill	1,069	231	130.3	1,400	239	159.2
Hood	8,625	90	126.4	10,159	94	152.0
Jack	260	33	37.0	336	33	46.7
Johnson	2,118	138	93.7	3,201	152	127.2
Lampasas	1,414	91	63.4	1,916	92	87.9
Lee	1,557	100	94.1	1,796	109	113.7
Leon	589	26	27.0	775	26	34.5
Limestone	1,409	214	104.9	2,093	221	143.4
Madison	40	11	9.0	51	12	10.2
McLennan	12,393	567	581.4	18,240	613	772.4
Milam	1,629	174	159.4	2,263	185	205.4
Mills	85	19	22.9	110	19	30.1
Palo Pinto	5,104	177	177.5	6,484	198	253.3
Parker	2,724	118	117.4	3,292	132	148.7
Robertson	1,668	128	158.6	2,203	135	189.8
Somervell	592	47	28.2	873	49	41.6
Stephens	260	20	28.1	323	22	38.0
Travis	24	0	0.8	37	0	1.0
Waller	3,838	124	144.4	5,089	127	212.3
Washington	1,479	223	134.9	1,930	234	146.0
Williamson	20,624	971	669.2	33,503	1,062	931.2
Young	2,456	47	107.3	3,265	50	135.7
Total	177,290	6,750	7,500.7	269,140	7,193	9,683.5

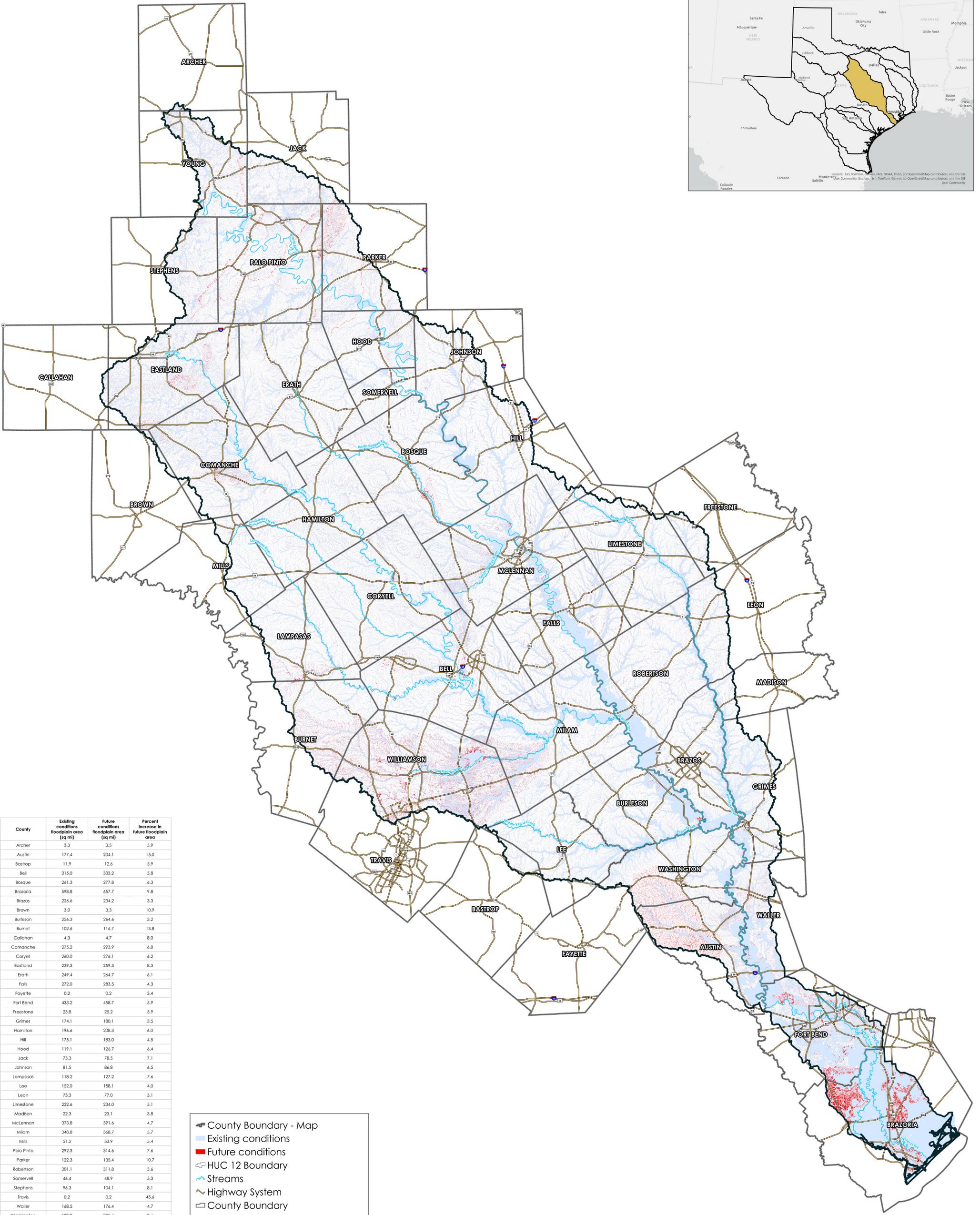
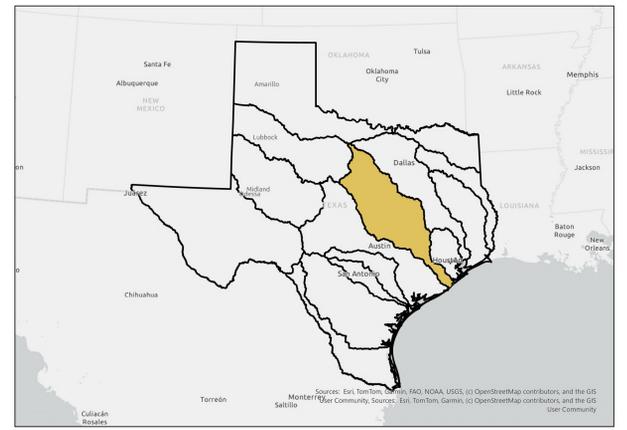
- Roadway Stream Crossing
- Buildings
- Roadway Segments
- Agricultural Land
- Other
- Lower Brazos Flood Planning Basin
- County Boundary
- HUC 12 Boundary
- Highway System
- Streams



Lower Brazos Flood Planning Basin
 County Boundary
 Streams
 Highway System
 Existing Condition Flood Exposure with TXF-SVI > 0.75
 Critical Infrastructure
 Low Water Crossing
 Buildings
 Roadway Stream Crossing
 Texas Flood Social Vulnerability Index (Existing Conditions)
 0.75 - 1.00
 0.50 - 0.75
 0.25 - 0.50
 0.00 - 0.25
 FSVI Unavailable

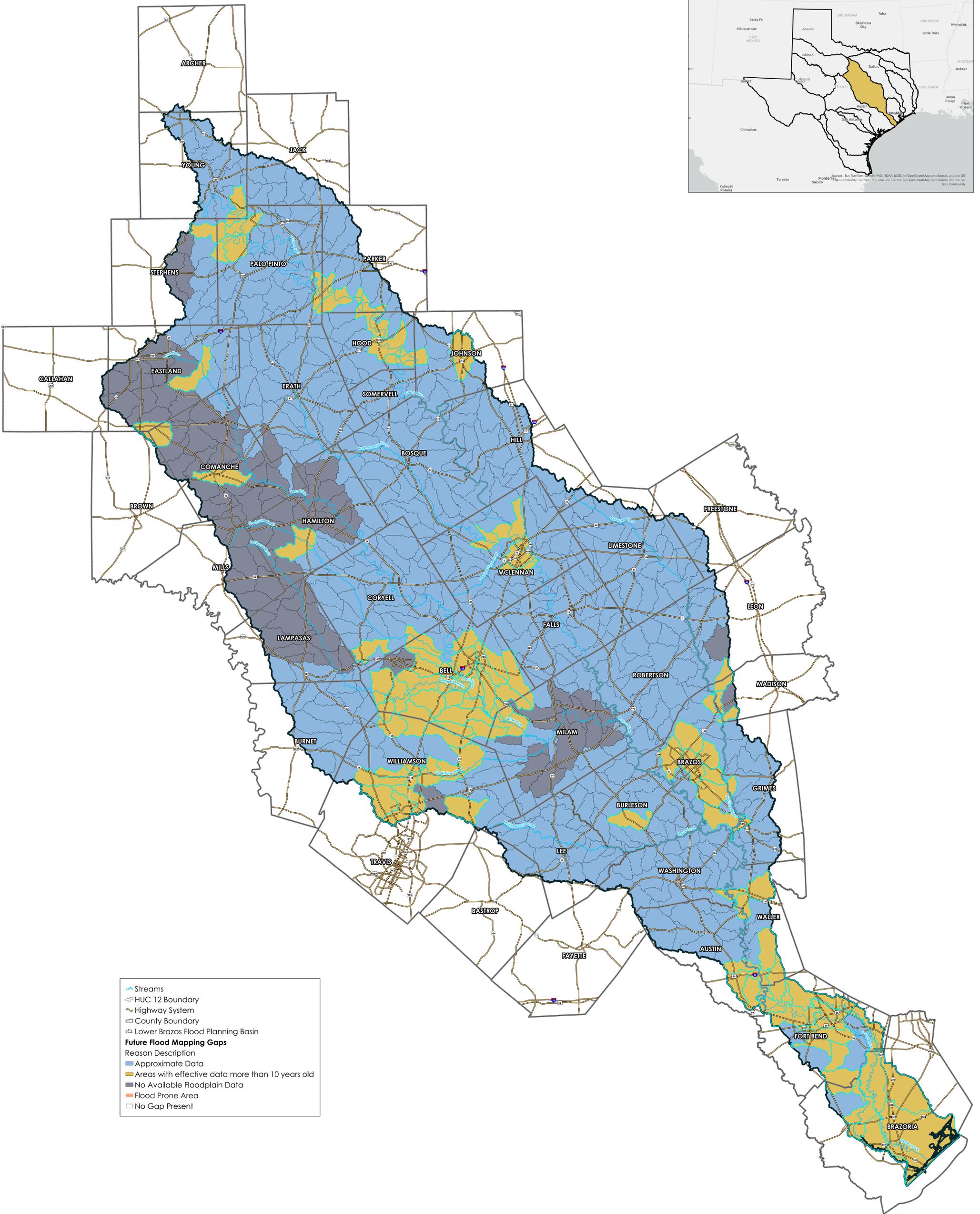


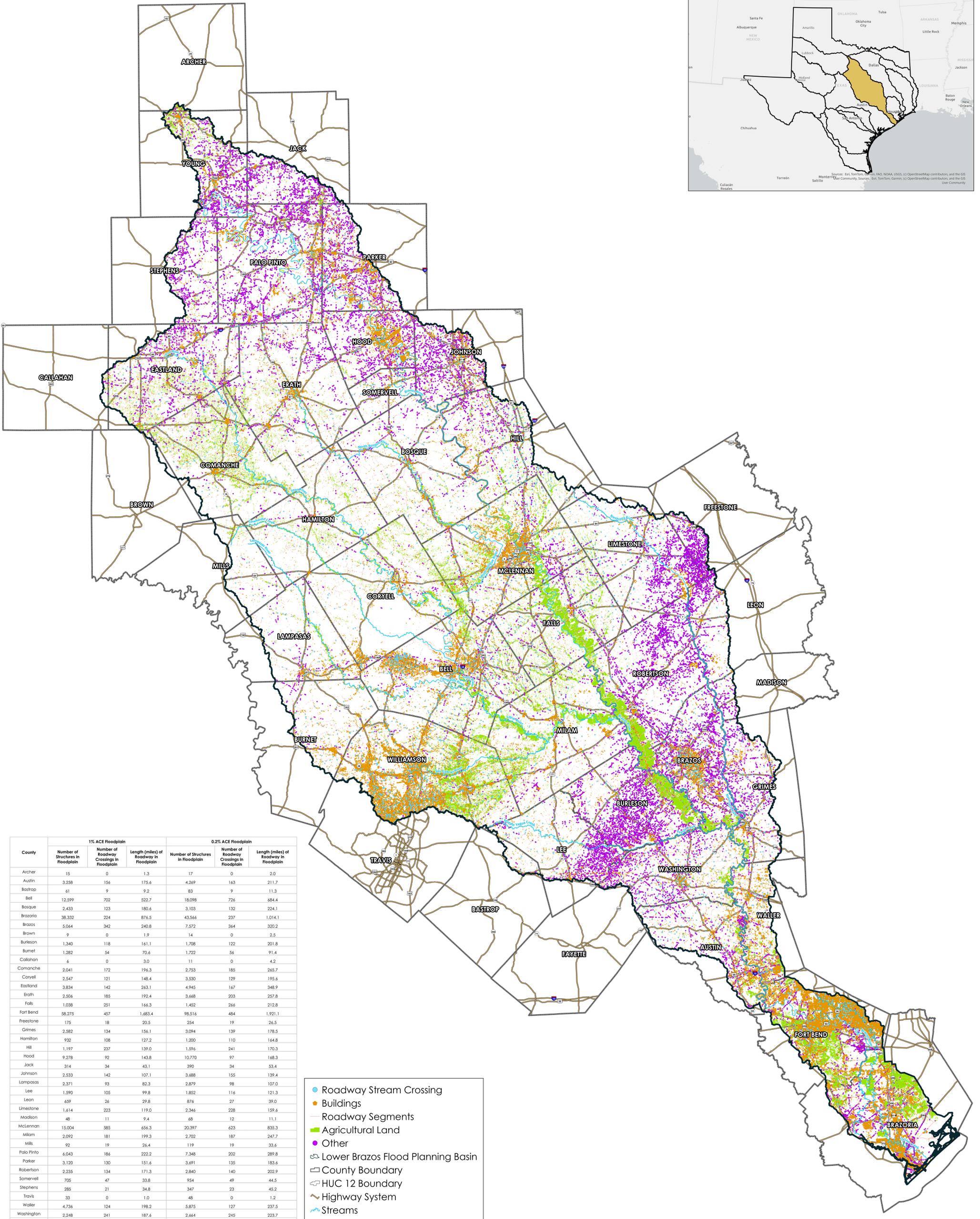
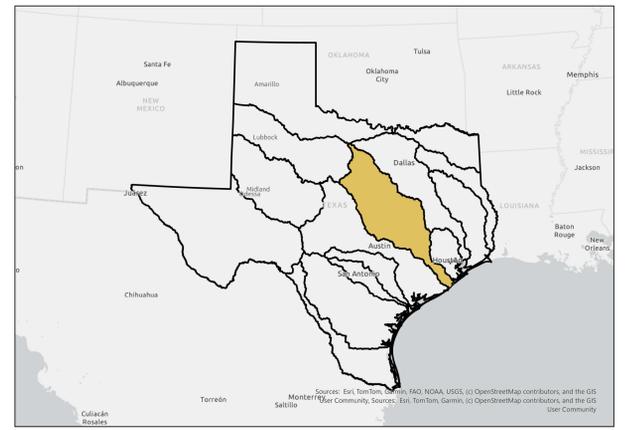
~ Highway System
 □ County Boundary
 ⚡ Lower Brazos Flood Planning Basin
Future Flood Hazard
 ■ Riverine/Urban 10% Annual Chance Flood Hazard
 ■ Riverine/Urban 1% Annual Chance Flood Hazard
 ■ Riverine/Urban 0.2% Annual Chance Flood Hazard
 ■ Coastal 10% Annual Chance Flood Hazard
 ■ Coastal 1% Annual Chance Flood Hazard
 ■ Coastal 0.2% Annual Chance Flood Hazard



County	Existing conditions floodplain area (sq mi)	Future conditions floodplain area (sq mi)	Percent increase in future floodplain area
Archer	3.3	3.5	5.9
Austin	177.4	204.1	15.0
Bastrop	11.9	12.6	5.9
Bell	315.0	333.2	5.8
Bosque	261.3	277.8	6.3
Brazoria	598.8	657.7	9.8
Brazos	226.6	234.2	3.3
Brown	3.0	3.3	10.9
Burleson	256.3	264.6	3.2
Burnet	102.6	116.7	13.8
Callahan	4.3	4.7	8.0
Comanche	275.2	293.9	6.8
Coryell	260.0	276.1	6.2
Eastland	239.3	259.3	8.3
Erath	249.4	264.7	6.1
Falls	272.0	283.5	4.3
Fayette	0.2	0.2	3.4
Fort Bend	433.2	458.7	5.9
Freestone	23.8	25.2	5.9
Grimes	174.1	180.1	3.5
Hamilton	196.6	208.3	6.0
Hill	175.1	183.0	4.5
Hood	119.1	126.7	6.4
Jack	73.3	78.5	7.1
Johnson	81.5	86.8	6.5
Lampasas	118.2	127.2	7.6
Lee	152.0	158.1	4.0
Leon	73.3	77.0	5.1
Limestone	222.6	234.0	5.1
Madison	22.3	23.1	3.8
McLennan	373.8	391.6	4.7
Milam	348.8	368.7	5.7
Mills	51.2	53.9	5.4
Palto Pinto	292.3	314.6	7.6
Parker	122.3	135.4	10.7
Robertson	301.1	311.8	3.6
Somervell	46.4	48.9	5.3
Stephens	96.3	104.1	8.1
Travis	0.2	0.2	45.6
Waller	168.5	176.4	4.7
Washington	189.2	205.4	8.6
Williamson	380.7	441.2	15.9
Young	136.7	145.9	6.7
Total	7629.0	8154.4	6.9

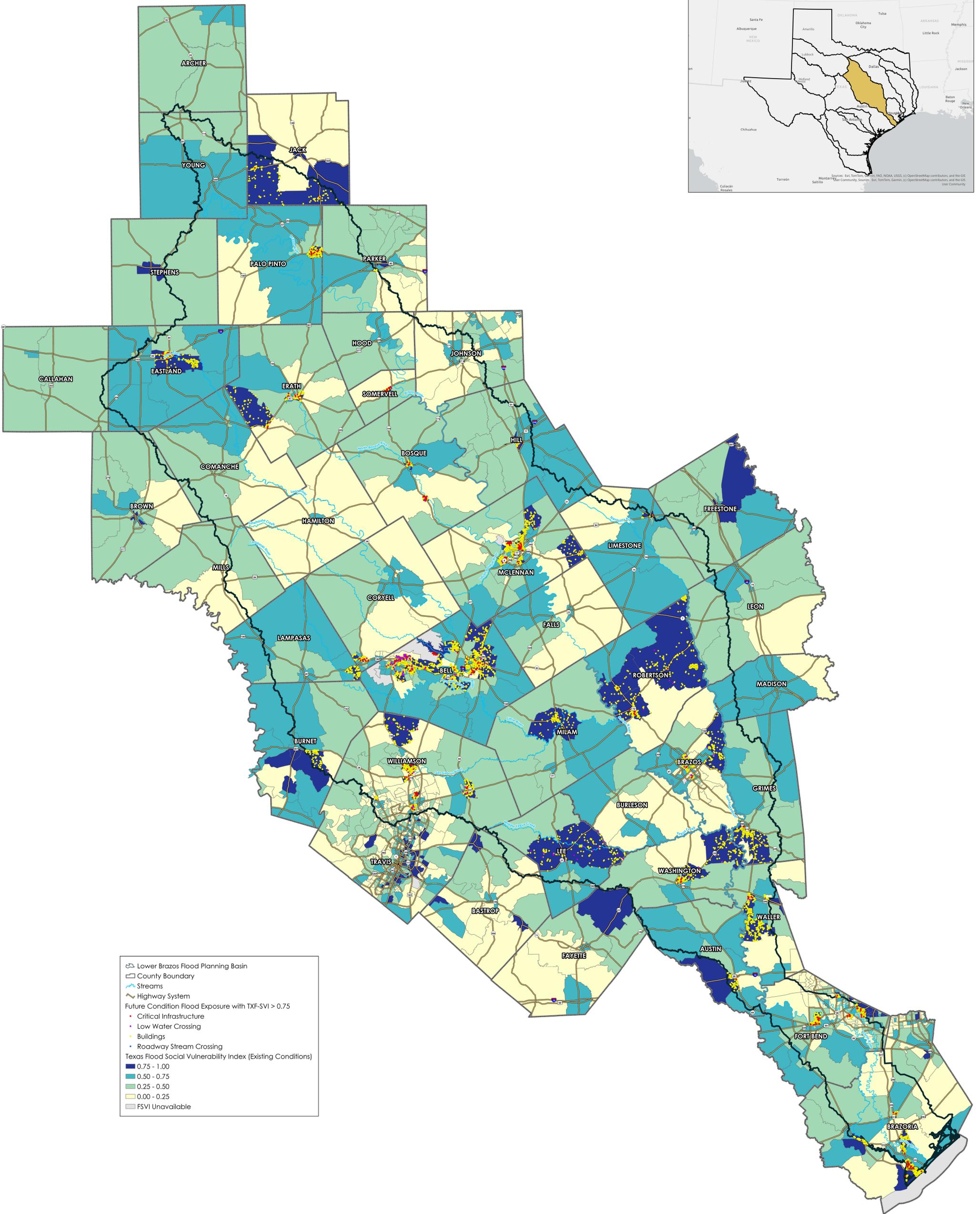
- County Boundary - Map
- Existing conditions
- Future conditions
- HUC 12 Boundary
- Streams
- Highway System
- County Boundary
- Lower Brazos Flood Planning Basin

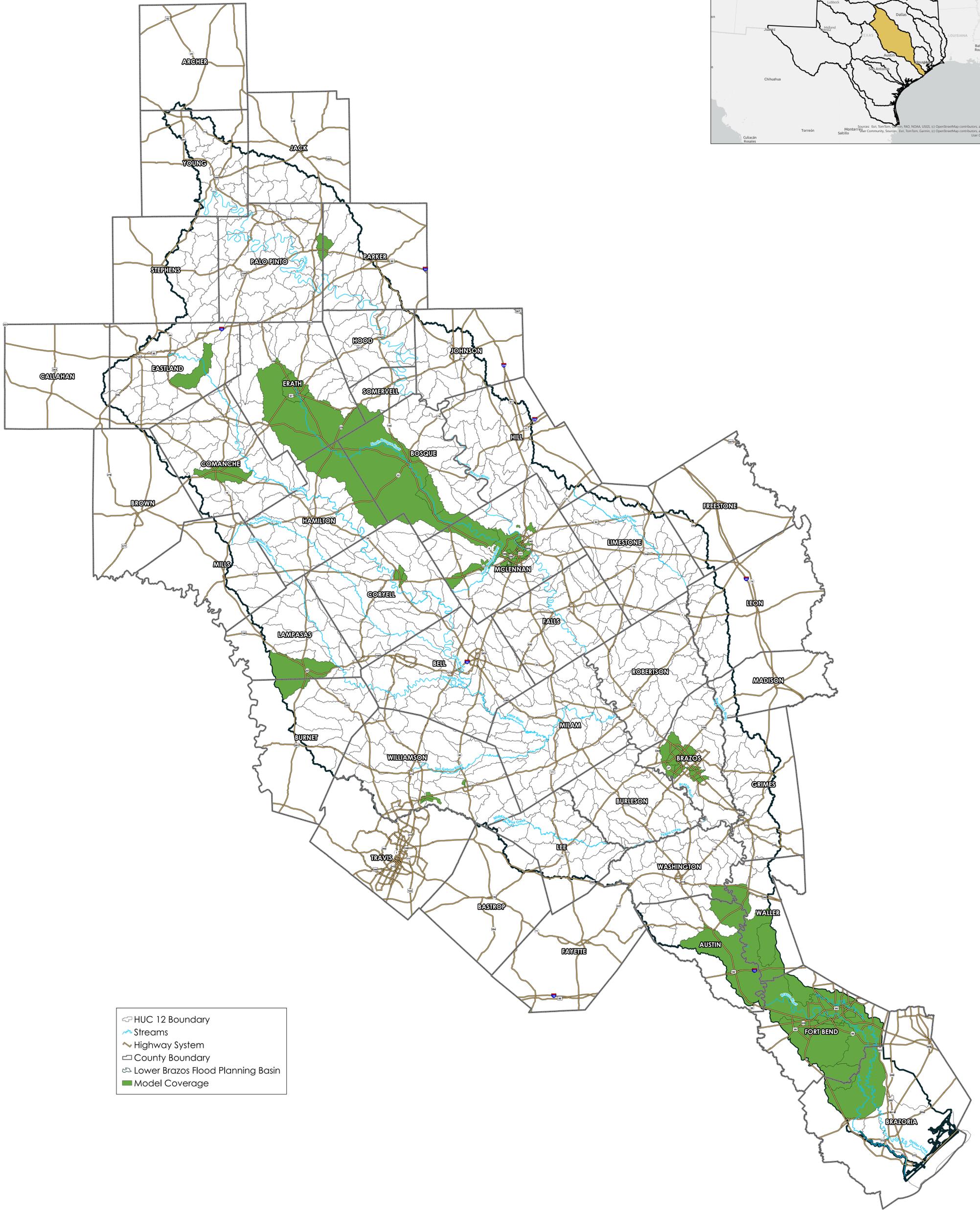
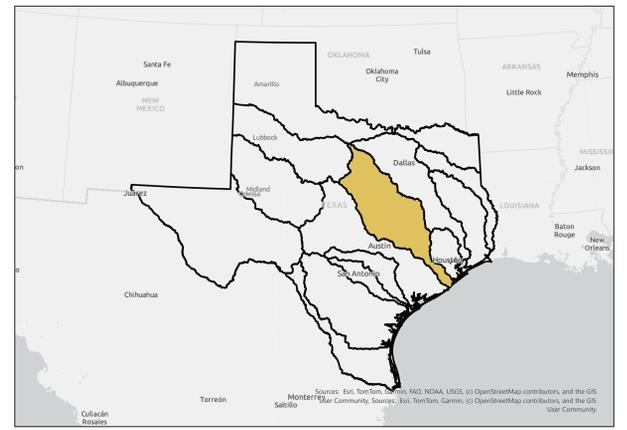




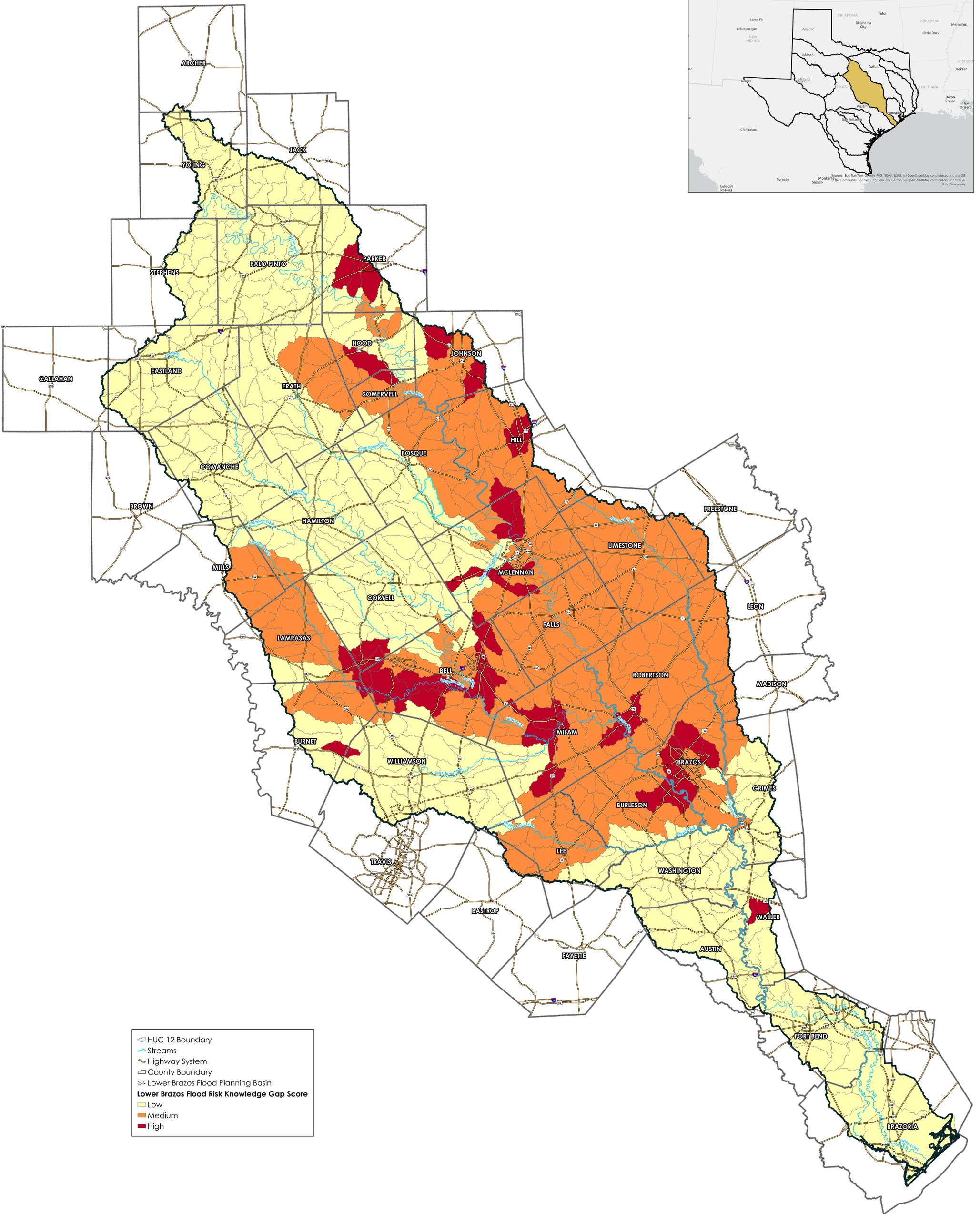
County	1% ACE Floodplain			0.2% ACE Floodplain		
	Number of Structures in Floodplain	Number of Roadway Crossings in Floodplain	Length (miles) of Roadway in Floodplain	Number of Structures in Floodplain	Number of Roadway Crossings in Floodplain	Length (miles) of Roadway in Floodplain
Archer	15	0	1.3	17	0	2.0
Austin	3,258	156	175.6	4,269	163	211.7
Bastrop	61	9	9.2	83	9	11.3
Bell	12,599	702	522.7	18,098	726	484.4
Bosque	2,433	123	180.6	3,103	132	224.1
Brazoria	38,332	224	876.5	43,566	237	1,014.1
Brazos	5,064	342	240.8	7,572	364	320.2
Brown	9	0	1.9	14	0	2.5
Burleson	1,340	118	161.1	1,708	122	201.8
Burnet	1,282	54	70.6	1,722	56	91.4
Callahan	6	0	3.0	11	0	4.2
Comanche	2,041	172	196.3	2,753	185	265.7
Coryell	2,547	121	148.4	3,530	129	195.6
Eastland	3,834	142	263.1	4,945	167	348.9
Erath	2,506	185	192.4	3,668	203	257.8
Falls	1,038	251	166.3	1,452	266	212.8
Fort Bend	58,275	457	1,483.4	98,516	484	1,921.1
Freestone	175	18	20.5	254	19	26.5
Grimes	2,582	134	156.1	3,094	139	178.5
Hamilton	932	108	127.2	1,200	110	164.8
Hill	1,197	237	139.0	1,596	241	170.3
Hood	9,278	92	143.8	10,770	97	168.3
Jack	314	34	43.1	390	34	53.4
Johnson	2,533	142	107.1	3,688	155	139.4
Lampasas	2,371	93	82.3	2,879	98	107.0
Lee	1,590	105	99.8	1,852	116	121.3
Leon	659	26	29.8	876	27	39.0
Limestone	1,614	223	119.0	2,346	228	159.6
Madison	48	11	9.4	68	12	11.1
McLennan	15,004	585	656.3	20,397	623	835.3
Milam	2,092	181	199.3	2,702	187	247.7
Mills	92	19	26.4	119	19	33.6
Palo Pinto	6,043	186	222.2	7,348	202	289.8
Parker	3,120	130	151.6	3,691	135	183.6
Robertson	2,235	134	171.3	2,840	140	202.9
Somervell	705	47	33.8	954	49	44.5
Stephens	285	21	34.8	347	23	45.2
Travis	33	0	1.0	48	0	1.2
Waller	4,736	124	198.2	5,875	127	237.5
Washington	2,248	241	187.6	2,664	245	223.7
Williamson	34,312	1,068	954.6	47,897	1,130	1,225.0
Young	2,795	47	122.0	3,552	50	151.5
Total	231,633	7,062	8,929.5	322,474	7,449	11,030.5

- Roadway Stream Crossing
- Buildings
- Roadway Segments
- Agricultural Land
- Other
- Lower Brazos Flood Planning Basin
- County Boundary
- HUC 12 Boundary
- Highway System
- Streams

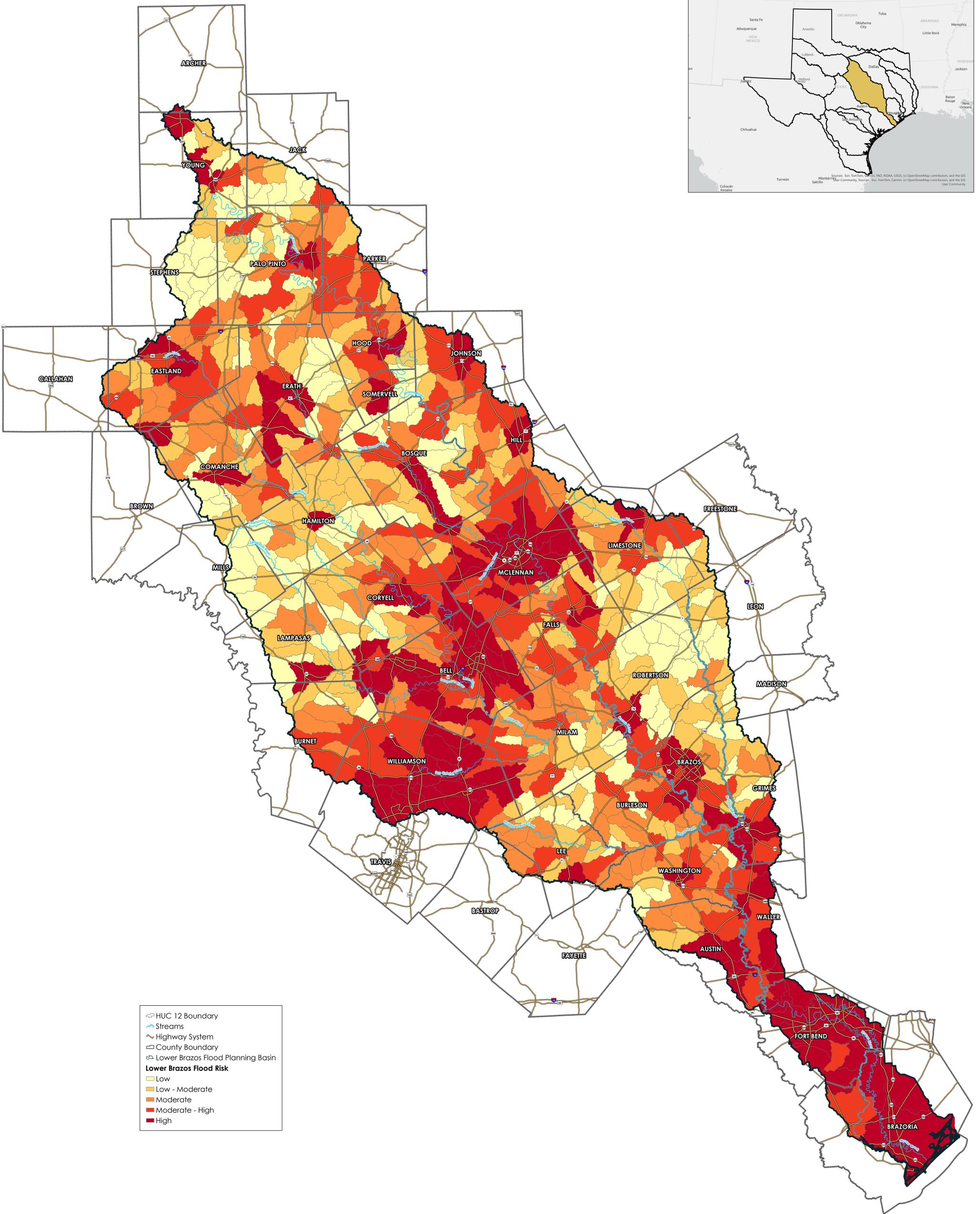




-  HUC 12 Boundary
-  Streams
-  Highway System
-  County Boundary
-  Lower Brazos Flood Planning Basin
-  Model Coverage



- HUC 12 Boundary
 - Streams
 - Highway System
 - County Boundary
 - Lower Brazos Flood Planning Basin
Lower Brazos Flood Risk Knowledge Gap Score
 - Low
 - Medium
 - High



Attachment 3

TWDB required Exhibit C Tables and lists.

Summary of Entities with Flood Related Authority

TYPE	Total	NFIP Participating	NFIP Not Participating
County	43	41	2
Municipality	193	163	30
River Authority	5	0	5
Flood District	5	0	5
Other Districts	359	12	347

List of Entities with Flood Related Authority: Municipalities

Entity Name	Entity Type	Participating Community
ARCHER	County	YES
AUSTIN	County	YES
BASTROP	County	YES
BELL	County	YES
BOSQUE	County	YES
BRAZORIA	County	YES
BRAZOS	County	YES
BROWN	County	YES
BURLESON	County	YES
BURNET	County	YES
CALLAHAN	County	YES
COMANCHE	County	YES
CORYELL	County	YES
EASTLAND	County	YES
ERATH	County	YES
FALLS	County	NO
FAYETTE	County	YES
FORT BEND	County	YES
FREESTONE	County	YES
GRIMES	County	YES
HAMILTON	County	NO
HILL	County	YES
HOOD	County	YES
JACK	County	YES
JOHNSON	County	YES
LAMPASAS	County	YES
LEE	County	YES
LEON	County	YES
LIMESTONE	County	YES
MADISON	County	YES
MCLENNAN	County	YES
MILAM	County	YES
MILLS	County	YES
PALO PINTO	County	YES
PARKER	County	YES
ROBERTSON	County	YES
SOMERVELL	County	YES
STEPHENS	County	YES
TRAVIS	County	YES

List of Entities with Flood Related Authority: Municipalities

Entity Name	Entity Type	Participating Community
WALLER	County	YES
WASHINGTON	County	YES
WILLIAMSON	County	YES
YOUNG	County	YES

List of Entities with Flood Related Authority: Municipalities

Entity Name	Entity Type	Participating Community
ABBOTT	Municipality	NO
ALVIN	Municipality	YES
ANDERSON	Municipality	NO
ANGLETON	Municipality	YES
AQUILLA	Municipality	NO
ARCOLA	Municipality	YES
AUSTIN	Municipality	YES
BAILEY'S PRAIRIE	Municipality	YES
BARTLETT	Municipality	YES
BEASLEY	Municipality	YES
BELLMEAD	Municipality	YES
BELLVILLE	Municipality	YES
BELTON	Municipality	YES
BERTRAM	Municipality	YES
BEVERLY HILLS	Municipality	YES
BLUM	Municipality	YES
BONNEY	Municipality	YES
BRAZORIA	Municipality	YES
BRAZOS COUNTRY	Municipality	YES
BREMOND	Municipality	YES
BRENHAM	Municipality	YES
BROOKSHIRE	Municipality	YES
BRUCEVILLE-EDDY	Municipality	YES
BRYAN	Municipality	YES
BRYSON	Municipality	YES
BUCKHOLTS	Municipality	YES
BURLESON	Municipality	YES
BURNET	Municipality	YES
BURTON	Municipality	YES
CALDWELL	Municipality	YES
CALVERT	Municipality	YES
CAMERON	Municipality	YES
CARBON	Municipality	NO
CARL'S CORNER	Municipality	NO
CARMINE	Municipality	YES
CEDAR PARK	Municipality	YES
CISCO	Municipality	YES
CLEBURNE	Municipality	YES
CLIFTON	Municipality	YES

List of Entities with Flood Related Authority: Municipalities

Entity Name	Entity Type	Participating Community
CLUTE	Municipality	YES
COLLEGE STATION	Municipality	YES
COMANCHE	Municipality	YES
COOL	Municipality	NO
COOLIDGE	Municipality	YES
COPPERAS COVE	Municipality	YES
COUPLAND	Municipality	YES
COVINGTON	Municipality	NO
COYOTE FLATS	Municipality	NO
CRANFILLS GAP	Municipality	YES
CRAWFORD	Municipality	YES
CRESSON	Municipality	YES
DANBURY	Municipality	YES
DE LEON	Municipality	YES
DECORDOVA	Municipality	YES
DUBLIN	Municipality	YES
EASTLAND	Municipality	YES
EVANT	Municipality	NO
FAIRCHILDS	Municipality	YES
FLORENCE	Municipality	YES
FRANKLIN	Municipality	YES
FREEPORT	Municipality	YES
FULSHEAR	Municipality	YES
GATESVILLE	Municipality	YES
GEORGETOWN	Municipality	YES
GHOLSON	Municipality	YES
GIDDINGS	Municipality	YES
GLEN ROSE	Municipality	YES
GODLEY	Municipality	YES
GOLDTHWAITE	Municipality	NO
GOLINDA	Municipality	NO
GORDON	Municipality	YES
GORMAN	Municipality	YES
GRAFORD	Municipality	YES
GRAHAM	Municipality	YES
GRANBURY	Municipality	YES
GRANGER	Municipality	YES
GROESBECK	Municipality	YES
GUSTINE	Municipality	NO

List of Entities with Flood Related Authority: Municipalities

Entity Name	Entity Type	Participating Community
HALLSBURG	Municipality	NO
HAMILTON	Municipality	YES
HARKER HEIGHTS	Municipality	YES
HEARNE	Municipality	YES
HEMPSTEAD	Municipality	YES
HEWITT	Municipality	YES
HICO	Municipality	YES
HILLSBORO	Municipality	YES
HOLIDAY LAKES	Municipality	YES
HOLLAND	Municipality	YES
HOUSTON	Municipality	YES
HUTTO	Municipality	YES
INDUSTRY	Municipality	NO
IOLA	Municipality	NO
IREDELL	Municipality	YES
ITASCA	Municipality	YES
JARRELL	Municipality	NO
JEWETT	Municipality	YES
JOSHUA	Municipality	YES
KEENE	Municipality	YES
KEMPNER	Municipality	YES
KILLEEN	Municipality	YES
KOSSE	Municipality	YES
KURTEN	Municipality	NO
LACY-LAKEVIEW	Municipality	YES
LAKE JACKSON	Municipality	YES
LAMPASAS	Municipality	YES
LEANDER	Municipality	YES
LEROY	Municipality	YES
LEXINGTON	Municipality	YES
LIBERTY HILL	Municipality	YES
LIPAN	Municipality	YES
LITTLE RIVER-ACADEMY	Municipality	YES
LOMETA	Municipality	NO
LORENA	Municipality	YES
LOTT	Municipality	NO
MARLIN	Municipality	YES
MARQUEZ	Municipality	YES
MART	Municipality	YES

List of Entities with Flood Related Authority: Municipalities

Entity Name	Entity Type	Participating Community
MCGREGOR	Municipality	YES
MERIDIAN	Municipality	YES
MEXIA	Municipality	YES
MILANO	Municipality	NO
MILLSAP	Municipality	YES
MINERAL WELLS	Municipality	YES
MINGUS	Municipality	YES
MISSOURI CITY	Municipality	YES
MOODY	Municipality	YES
MORGAN	Municipality	NO
MORGAN'S POINT RESORT	Municipality	YES
MOUNT CALM	Municipality	YES
NAVASOTA	Municipality	YES
NEEDVILLE	Municipality	YES
NOLANVILLE	Municipality	YES
NORMANGEE	Municipality	YES
OGLESBY	Municipality	YES
OLNEY	Municipality	YES
ORCHARD	Municipality	YES
OYSTER CREEK	Municipality	YES
PATTISON	Municipality	YES
PFLUGERVILLE	Municipality	YES
PINE ISLAND	Municipality	NO
PLEAK	Municipality	YES
PRAIRIE VIEW	Municipality	YES
QUINTANA	Municipality	YES
RANGER	Municipality	YES
RICHMOND	Municipality	YES
RICHWOOD	Municipality	YES
RIESEL	Municipality	NO
RIO VISTA	Municipality	YES
RISING STAR	Municipality	YES
ROBINSON	Municipality	YES
ROCKDALE	Municipality	YES
ROGERS	Municipality	YES
ROSEBUD	Municipality	NO
ROSENBERG	Municipality	YES
ROSS	Municipality	YES
ROUND ROCK	Municipality	YES

List of Entities with Flood Related Authority: Municipalities

Entity Name	Entity Type	Participating Community
SALADO	Municipality	YES
SAN FELIPE	Municipality	YES
SANDY POINT	Municipality	YES
SEALY	Municipality	YES
SIMONTON	Municipality	YES
SNOOK	Municipality	YES
SOMERVILLE	Municipality	YES
SOUTH FRYDEK	Municipality	NO
SOUTH MOUNTAIN	Municipality	NO
STAFFORD	Municipality	YES
STEPHENVILLE	Municipality	YES
STOCKTON BEND	Municipality	NO
STRAWN	Municipality	YES
SUGAR LAND	Municipality	YES
SURFSIDE BEACH	Municipality	YES
TAYLOR	Municipality	YES
TEAGUE	Municipality	YES
TEHUACANA	Municipality	NO
TEMPLE	Municipality	YES
THOMPSONS	Municipality	YES
THORNDALE	Municipality	NO
THORNTON	Municipality	NO
THRALL	Municipality	YES
TOLAR	Municipality	YES
TROY	Municipality	YES
VALLEY MILLS	Municipality	YES
WACO	Municipality	YES
WALLIS	Municipality	YES
WALNUT SPRINGS	Municipality	YES
WEATHERFORD	Municipality	YES
WEIR	Municipality	YES
WEST	Municipality	YES
WEST COLUMBIA	Municipality	YES
WESTON LAKES	Municipality	YES
WHITNEY	Municipality	YES
WIXON VALLEY	Municipality	YES
WOODWAY	Municipality	YES

List of Entities with Flood Related Authority: Other Districts

Other Districts:	Count
Conservancy	2
Conservation and Reclamation District	3
Conservation District	1
Council of Governments	7
Drainage District	2
Fresh Water Supply District	9
Improvement District	4
Levee Improvement District	15
Management District	8
Municipal Management District	5
Municipal Utility District	261
Municipal Water District	1
Planning Commission	1
Port	1
Soil And Water Conservation District	1
Special Utility District	5
Water Authority	3
Water Control and Improvement District	21
Water Improvement District	3
Water Supply District	4
Watershed Authority	2
Sum	359

Table 11 - Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	Goal Theme	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
08-20-0000000001	Increase amount of counties and communities enrolled in the NFIP to 90% of communities and 100% of counties	Higher floodplain management standards and policies	Short	2038	Entire Regional Flood Plan	Existing flood risk remains the same. There may still be poor enforcement of adopted flood standards.	Number of counties and communities enrolled in the NFIP program	Protect against the loss of life and property	08-20-0000000002
08-20-0000000002	Maintain the number of counties (100%) and increase the communities enrolled in the NFIP to 95%	Higher floodplain management standards and policies	Long	2058	Entire Regional Flood Plan	Existing flood risk remains the same. There may still be poor enforcement of adopted flood standards.	Number of counties and communities enrolled in the NFIP program	Protect against the loss of life and property	08-20-0000000001
08-20-0000000003	Increase the number of counties and communities that have adopted higher than NFIP standards, including directing development away from the floodplain, by an additional 10%	Higher floodplain management standards and policies	Short	2038	Entire Regional Flood Plan	Existing flood risk remains the same. There may still be poor enforcement of adopted flood standards.	Number of counties and communities with higher than NFIP standards	Protect against the loss of life and property	08-20-0000000004
08-20-0000000004	Increase the number of counties and communities that have adopted higher than NFIP standards, including directing development away from the floodplain, by 40%	Higher floodplain management standards and policies	Long	2058	Entire Regional Flood Plan	Existing flood risk remains the same. There may still be poor enforcement of adopted flood standards.	Number of counties and communities with higher than NFIP standards	Protect against the loss of life and property	08-20-0000000003
08-20-0000000005	Increase the number of cities and counties that have adopted the best available rainfall statistics (currently Atlas 14) for their designs and plans to 75% of all cities and counties.	Higher floodplain management standards and policies	Short	2038	Coastal and Upper Coastal Regions	Entities may utilize older data even when newer, more accurate information is available.	Number of entities that adopted Atlas 14	Protect against the loss of life and property	08-20-0000000006
08-20-0000000006	Entities in the Coastal and Upper Coastal Regions have adopted Atlas 15 rainfall data.	Higher floodplain management standards and policies	Long	2058	Coastal and Upper Coastal Regions	Entities may utilize older data even when newer, more accurate information is available.	Number of entities that adopted Atlas 15	Protect against the loss of life and property	08-20-0000000005
08-20-0000000007	Improve safety at 90 low water crossings by adding warning systems/signage or improving low water crossings in high-risk areas	Roadway safety and early warning systems	Short	2038	Entire Regional Flood Plan	Additional low water crossings will remain unmarked and may still be hazardous. There is a risk that citizens will not understand or heed warnings.	Number of improved low water crossings	Protect against the loss of life and property	08-20-0000000008

Table 11 - Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	Goal Theme	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
08-20-000000008	Improve safety at 270 low water crossings by adding warning systems/signage or improving low water crossings in high-risk areas	Roadway safety and early warning systems	Long	2058	Entire Regional Flood Plan	Additional low water crossings will remain unmarked and may still be hazardous. There is a risk that citizens will not understand or heed warnings.	Number of improved low water crossings	Protect against the loss of life and property	08-20-000000007
08-20-000000009	Reduce the structures at risk of flooding during the 1% annual chance storm events by structural (flood infrastructure) and non-structural (elevation, buy-outs, relocation, etc.) means by 5%	Reduced structures and population in the 1% and 0.2% annual chance floodplains	Short	2038	Entire Regional Flood Plan	Potential flood risk for flood events more frequent than the 1% annual chance storm events.	Number of structures with reduced flood risk	Protect against the loss of life and property	08-20-000000010
08-20-000000010	Reduce the structures at risk of flooding during the 1% annual chance storm events by structural (flood infrastructure) and non-structural (elevation, buy-outs, relocation, etc.) mean by 15%	Reduced structures and population in the 1% and 0.2% annual chance floodplains	Long	2058	Entire Regional Flood Plan	Potential flood risk for flood events more frequent than the 1% annual chance storm events.	Number of structures with reduced flood risk	Protect against the loss of life and property	08-20-000000009
08-20-000000011	Reduce the flood hazard risk of 1% of critical facilities below a 1% annual chance storm events to above the 0.2% annual chance storm events by both structural (flood infrastructure) and non-structural (elevation, buy-outs, relocation, etc.)	Reduced structures and population in the 1% and 0.2% annual chance floodplains, Reducing flood risk to critical facilities	Short	2038	Entire Regional Flood Plan	Potential flood risk for flood events more frequent than the 1% annual chance storm events.	Number of critical facilities with reduced flood risk	Protect against the loss of life and property	08-20-000000012
08-20-000000012	Reduce the flood hazard risk of 10% of critical facilities below a 1% annual chance storm events to above the 0.2% annual chance storm events by both structural (flood infrastructure) and non-structural (elevation, buy-outs, relocation, etc.)	Reduced structures and population in the 1% and 0.2% annual chance floodplains, Reducing flood risk to critical facilities	Long	2058	Entire Regional Flood Plan	Potential flood risk for flood events more frequent than the 1% annual chance storm events.	Number of critical facilities with reduced flood risk	Protect against the loss of life and property	08-20-000000011
08-20-000000013	Increase the accuracy of flood hazard data in the region by performing detailed studies using the best available terrain, land use, and precipitation data to reduce gaps in floodplain mapping by reducing the total area of 'high' map areas by 10%	Conducting flood risk reduction studies	Short	2038	Entire Regional Flood Plan	Due to changes and updates to terrain, land use, precipitation, and other data, the flood risk may change over time.	Flood map gap areas designated as 'high' from Task 3B	Protect against the loss of life and property	08-20-000000014

Table 11 - Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	Goal Theme	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
08-20-0000000014	Reduce the gap in the accuracy of flood hazard data in the region by 50% in 'high' areas by performing detailed studies using the best available terrain, land use, and precipitation data to reduce gaps in floodplain mapping	Conducting flood risk reduction studies	Long	2058	Entire Regional Flood Plan	Due to changes and updates to terrain, land use, precipitation, and other data, the flood risk may change over time.	Flood map gap areas designated as 'high' from Task 3B	Protect against the loss of life and property	08-20-0000000013
08-20-0000000015	Implement warning systems in 50% of communities that are identified by TWDB as needing early warning systems	Roadway safety and early warning systems	Short	2038	Entire Regional Flood Plan	Risk of not capturing all of the region's warning and emergency response programs. Risk that citizens will not understand or heed warnings	Number of communities identified by the research efforts currently underway by the TWDB with warning and emergency response systems	Protect against the loss of life and property	08-20-0000000016
08-20-0000000016	Implement warning systems in 100% of communities that are identified by TWDB as needing early warning systems	Roadway safety and early warning systems	Long	2058	Entire Regional Flood Plan	Risk of not capturing all of the region's warning and emergency response programs. Risk that citizens will not understand or heed warnings	Number of communities identified by the research efforts currently underway by the TWDB with warning and emergency response systems	Protect against the loss of life and property	08-20-0000000015
08-20-0000000017	Install gauge locations at two of the eighteen potential locations identified in Task 12 of Cycle 1.	Roadway safety and early warning systems	Short	2038	Entire Regional Flood Plan	Not every area will be covered by a gauge, so data gaps will remain.	Number of gauges added	Protect against the loss of life and property	08-20-0000000018
08-20-0000000018	Add 30% more gauges (rainfall, stream, reservoir, etc.)	Roadway safety and early warning systems	Long	2058	Entire Regional Flood Plan	Not every area will be covered by a gauge so data gaps will remain.	Number of gauges added	Protect against the loss of life and property	08-20-0000000017
08-20-0000000019	Increase public outreach and education activities to improve awareness of flood hazards and benefits of flood planning by hosting one community education program on an annual basis.	Stakeholder and public outreach, education, and training	Short	2038	Entire Regional Flood Plan	All flood risk-related topics can be covered, and not everyone will be reached.	Number of public outreach events and education activities performed	Protect against the loss of life and property	08-20-0000000020
08-20-0000000020	Increase public outreach and education activities to improve awareness of flood hazards and benefits of flood planning by hosting two community education programs on an annual basis.	Stakeholder and public outreach, education, and training	Long	2058	Entire Regional Flood Plan	All flood risk-related topics can be covered, and not everyone will be reached.	Number of public outreach events and education activities performed	Protect against the loss of life and property	08-20-0000000019

Table 11 - Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	Goal Theme	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
08-20-0000000021	Reduce the flood risk to 20,000 acres of agricultural land currently exposed to 1% annual chance storm event by structural and non-structural (flood gauge, etc.) means Reduce agricultural losses from flooding by 10%	Implementing flood risk reduction projects, non-structural flood risk reduction	Short	2038	Entire Regional Flood Plan	Potential flood risk for flood events more frequent than the 1% annual chance storm events.	Amount of agricultural acreage with reduced flood risk Amount of agricultural losses from flooding reported on Farmers.gov	Protect against the loss of life and property	08-20-0000000022
08-20-0000000022	Reduce the flood risk to 50,000 acres of agricultural land currently exposed to 1% annual chance storm event by structural and non-structural (flood gauge, etc.) means Reduce agricultural losses from flooding by 25%	Implementing flood risk reduction projects, non-structural flood risk reduction	Long	2058	Entire Regional Flood Plan	Potential flood risk for flood events more frequent than the 1% annual chance storm events.	Amount of agricultural acreage with reduced flood risk Amount of agricultural losses from flooding reported on Farmers.gov	Protect against the loss of life and property	08-20-0000000021

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000035	1240-acre Fulshear Farms Development	Design of detention and hydraulic structure upgrades to offset development impacts.	Fort Bend	08000013, 08000014	Project Planning	2	Local	00002923	00002923	No	\$ 147,000
08-51-000000041	Fulshear Lakes Drainage Improvements	Design of drainage infrastructure to mitigate flooding in Fulshear Lake development.	Fort Bend	08000013	Project Planning	1	Riverine	00002923	00002923	No	\$ 151,000
08-51-000000042	Lea/Penn and Red Bird Lane Improvements	Design of diversion channel and road construction to reduce flooding and provide access to neighborhoods.	Fort Bend	08000013, 08000014	Project Planning	14	Riverine, Local	00002923	00002923	No	\$ 262,000
08-51-000000044	Sienna South Levee System Drainage	Design of lake and channel modifications to mitigate development in the area.	Fort Bend	08000013, 08000014	Project Planning	11	Riverine, Local	00000505	00000505, 00002044, 00000505, 08000337	No	\$ 320,000
08-51-000000045	Sienna North Levee System Drainage	Design of channel improvements to mitigate flow caused by increased development.	Fort Bend	08000013, 08000014	Project Planning	4	Riverine	00000505	00000505, 00002044, 00000505, 08000337	No	\$ 236,000
08-51-000000047	Sugar Creek Drainage Improvements	Design of storm drain updates throughout neighborhood.	Fort Bend	08000013, 08000014	Project Planning	43	Riverine	00002517	00002517	No	\$ 388,000
08-51-000000048	Covington Woods Jess Pirtle Bridge Channel Improvements	Determination of necessary repairs to ditch A-22 channel flow line	Fort Bend	08000013, 08000014	Project Planning	35	Riverine, Local	00002517	00002517	No	\$ 111,000
08-51-000000057	Chimneystone, Austin, and Settlers Parks Improvements Phase II	Design of new concrete channel and storm drain improvements.	Fort Bend	08000013	Project Planning	1	Riverine, Local	00002517	00002517	No	\$ 288,000
08-51-000000058	Sugar Lakes Drainage Improvements	Determination of necessary storm drain improvements and lake control structure modifications.	Fort Bend	08000013, 08000014	Project Planning	35	Local	00002517	00002517	No	\$ 348,000
08-51-000000060	Sugar Creek Regional Detention	Update design to account for Atlas 14 rainfall.	Fort Bend	08000013, 08000014	Project Planning	43	Local	00002517	00002517	No	\$ 300,000
08-51-000000061	Sugar Land Business Park Regional Detention	Update design to account for Atlas 14 rainfall.	Fort Bend	08000013, 08000014	Project Planning	16	Local	00002517	00002517	No	\$ 300,000

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000035	1240-acre Fulshear Farms Development	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-0000000041	Fulshear Lakes Drainage Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	69
08-51-0000000042	Lea/Penn and Red Bird Lane Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		80	47	141	0	0	9	2	1,414
08-51-0000000044	Sienna South Levee System Drainage	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	4
08-51-0000000045	Sienna North Levee System Drainage	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	1	0	2
08-51-0000000047	Sugar Creek Drainage Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		442	350	835	2	0	96	18	1,687
08-51-0000000048	Covington Woods Jess Pirtle Bridge Channel Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,300	1,205	4,489	2	0	143	19	1,143
08-51-0000000057	Chimneystone, Austin, and Settlers Parks Improvements Phase II	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-0000000058	Sugar Lakes Drainage Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,300	1,205	4,489	2	0	143	19	1,143
08-51-0000000060	Sugar Creek Regional Detention	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		442	350	835	2	0	96	18	1,687
08-51-0000000061	Sugar Land Business Park Regional Detention	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		195	144	726	2	0	77	13	857

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000075	Sugar Land MDP - Master Drainage Plan Updates	Review comprehensive plan goals, update detention facility ownership and assets, consider funding mechanisms, evaluate ranking criteria.	Fort Bend	08000013, 08000014	Watershed Planning	43	Riverine, Local	00002517	00002517	No	\$ 534,000
08-51-000000091	Sugar Land Citywide Flood Prevention & Drainage Studies	Study to determine how to replace B-B inlets with C-2 or H2 inlets in areas of ponding and structural risk.	Fort Bend	08000013, 08000014	Project Planning	43	Riverine, Coastal, Local	00002517	00002517	No	\$ 219,000
08-51-000000107	ATLAS 14 Outfall Structure No. 6	Design of improvements to Outfall Structure No. 6.	Fort Bend	08000013, 08000014	Project Planning	11	Riverine, Coastal, Local	00000505	00000505, 08000337	No	\$ 320,000
08-51-000000108	ATLAS 14 Brazos River Outfall Channel	Design of improvements to the Brazos River Outfall Channel.	Fort Bend	08000013, 08000014	Project Planning	12	Riverine, Coastal, Local	00000505	00000505, 08000337	No	\$ 330,000
08-51-000000110	Conversion of N & S Pump Stations to Vertical Turbines	Design of improvements to the N & S Pump Stations.	Fort Bend	08000013, 08000014	Project Planning	12	Riverine, Coastal, Local	00000505	00000505, 08000337	No	\$ 330,000
08-51-000000111	Regional Storage Phase 2	Design of improvement to regional storage.	Fort Bend	08000013, 08000014	Project Planning	11	Riverine, Coastal, Local	00000505	00000505, 08000337	No	\$ 320,000
08-51-000000114	400,500 PM Pump Station at Outfall No. 2	Study to design additional pump station at Outfall No. 2	Fort Bend	08000013, 08000014	Project Planning	11	Riverine, Coastal, Local	00000505	00000505, 08000337	No	\$ 571,000
08-51-000000115	Fort Bend County Flood Protection Levee for all Pump Station Electrics	Study to design levees to protect pump stations that mitigate flooding in Somervell.	Fort Bend	08000013, 08000014	Project Planning	15	Riverine, Coastal, Local	00000505	00000505, 08000337	No	\$ 365,000
08-51-000000164	Arcola Regional Drainage Improvements	Study to design and place drainage improvements such as detention ponds, pump stations, and road grading improvements.	Fort Bend	08000014	Watershed Planning	2	Riverine, Local	00002557	00002557	No	\$ 193,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-000000075	Sugar Land MDP - Master Drainage Plan Updates	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		442	350	835	2	0	96	18	1,687
08-51-000000091	Sugar Land Citywide Flood Prevention & Drainage Studies	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		442	350	835	2	0	96	18	1,687
08-51-000000107	ATLAS 14 Outfall Structure No. 6	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	4
08-51-000000108	ATLAS 14 Brazos River Outfall Channel	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		30	20	36	0	0	7	1	362
08-51-000000110	Conversion of N & S Pump Stations to Vertical Turbines	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		30	20	36	0	0	7	1	362
08-51-000000111	Regional Storage Phase 2	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	4
08-51-000000114	400,500 PM Pump Station at Outfall No. 2	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	4
08-51-000000115	Fort Bend County Flood Protection Levee for all Pump Station Electrics	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		22	1	254	0	0	2	0	52
08-51-000000164	Arcola Regional Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		8	8	17	0	0	1	0	4

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000000168	Cresson Storm Drainage Improvements	Study to determine how to increase the capacity of the storm drainage system by installing larger culverts and adding drainage points along vulnerable or critical roads.	Hood, Johnson, Parker	08000001	Watershed Planning	11	Riverine, Local	00003183	00003183	No	\$ 326,000
08-51-0000000175	City of Lipan Roadside Ditch Improvements	Design infrastructure to improve roadside ditch drainage and build curbs to increase water flow during flood events.	Hood	08000001	Project Planning	1	Riverine, Local	08003224	08003224	No	\$ 152,000
08-51-0000000177	City of Tolar Roadside Ditch Improvements	Study to determine necessary expansions and improvements to roadside drainage ditches to increase water flow during flood events.	Hood	08000002	Project Planning	1	Riverine, Local	08003184	08003184	No	\$ 154,000
08-51-0000000184	Mineral Wells State Park Dam Improvements	Design of dam improvements to reduce flood risk downstream.	Palo Pinto, Parker, Jack	08000001	Project Planning	90	Riverine, Local	08003291	08003291	No	\$ 73,000
08-51-0000000186	Culvert Additions to Prevent Flash Flooding in City of Mingus	New infrastructure to improve drainage conditions.	Palo Pinto	08000001	Watershed Planning	2	Riverine, Local	08002559	08002559	No	\$ 170,000
08-51-0000000188	City of Strawn Mitigations for Flood Prone Areas	Develop study to determine/ address flood risk.	Stephens, Palo Pinto, Eastland	08000001	Watershed Planning	55	Local	08002714	08002714	No	\$ 588,000
08-51-0000000189	Tucker Lake Dam and Spillway Maintenance	Design of dam improvements to reduce flood risk downstream.	Palo Pinto	08000001	Project Planning	1	Riverine	08002714	08002714	No	\$ 50,000
08-51-0000000193	Palo Pinto Retaining Walls	Design of retaining walls along county roads where landslides due to flooding is probable.	Palo Pinto	08000001	Project Planning	982	Riverine, Local	08000121	08000121	No	\$ 1,856,000
08-51-0000000199	Resley Creek Drainage Improvements	Design of improvements to channel to increase conveyance capacity.	Comanche, Erath	08000004, 08000008	Project Planning	49	Riverine	08003102	08003102	No	\$ 52,000

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000168	Cresson Storm Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		6	0	9	0	0	5	0	274
08-51-0000000175	City of Lipan Roadside Ditch Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		6	4	10	0	0	5	0	32
08-51-0000000177	City of Tolar Roadside Ditch Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		17	14	63	0	3	5	1	41
08-51-0000000184	Mineral Wells State Park Dam Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		150	21	685	2	3	79	12	4,030
08-51-0000000186	Culvert Additions to Prevent Flash Flooding in City of Mingus	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		22	15	6	0	0	12	1	46
08-51-0000000188	City of Strawn Mitigations for Flood Prone Areas	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		94	33	78	0	2	27	9	2,490
08-51-0000000189	Tucker Lake Dam and Spillway Maintenance	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		5	0	0	0	0	1	0	13
08-51-0000000193	Palo Pinto Retaining Walls	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,962	1,027	2,649	11	15	395	114	36,927
08-51-0000000199	Resley Creek Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		53	26	52	0	9	56	7	2,247

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000207	Austin County - Improve Drainage	Identify and evaluate drainage projects including storm sewer, channel, and crossing improvements.	Austin	08000013	Watershed Planning	263	Riverine, Local	00000018	00000018	No	\$ 1,088,000
08-51-000000212	San Felipe Street Elevation	Study to determine necessary elevation of street to decrease inundation in food events.	Austin	08000013	Project Planning	9	Riverine, Local	08003423	08003423	No	\$ 50,000
08-51-000000213	Pond Improvements to Cryan Park	Design of improvements to detention pond.	Austin	08000013	Project Planning	34	Riverine, Local	00002655	00002655	No	\$ 50,000
08-51-000000214	Pond Improvements to BPW Park	Design of improvements to detention pond.	Austin	08000013	Project Planning	34	Riverine, Local	00002655	00002655	No	\$ 50,000
08-51-000000223	Texas A&M Detention Pond	Study to determine placement and sizing of detention facility to contain and mitigate flooding.	Brazos	08000005, 08000007	Project Planning	3	Riverine, Local	08003439	08003439	No	\$ 207,000
08-51-000000226	Bee Creek Basin Detention Pond	Design of detention facility to contain and mitigate flooding.	Brazos	08000005, 08000007	Project Planning	9	Riverine, Local	08003439	08003439	No	\$ 111,000
08-51-000000245	Basin-Wide Stormwater Drainage Plan Update	Review and update the basin-wide stormwater drainage plan county-wide	Bell	08000005, 08000008, 08000009, 08000010, 08000011, 08000012	Watershed Planning	1,082	Riverine, Local	08000060	08000060	No	\$ 4,740,000
08-51-000000250	City of Bartlett Regional Drainage Improvements	Upgrade undersized drainage channels and culverts in flood prone areas.	Williamson, Bell	08000011	Watershed Planning	1	Riverine, Local	08003524	08003524	No	\$ 156,000
08-51-000000252	City of Holland Drainage Infrastructure Improvements	Upgrade/ improve undersized drainage system to increase capacity and reduce flooding.	Bell	08000011	Watershed Planning	2	Riverine, Local	08003525	08003525	No	\$ 176,000

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-000000207	Austin County - Improve Drainage	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		190	91	133	1	3	138	33	15,868
08-51-000000212	San Felipe Street Elevation	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		180	89	170	0	0	22	8	610
08-51-000000213	Pond Improvements to Cryan Park	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		382	256	725	2	0	32	13	2,250
08-51-000000214	Pond Improvements to BPW Park	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		382	256	725	2	0	32	13	2,250
08-51-000000223	Texas A&M Detention Pond	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		73	41	1,140	0	12	13	1	0
08-51-000000226	Bee Creek Basin Detention Pond	Local, TWDB FIF, FEMA FMA		66	47	217	1	8	19	2	75
08-51-000000245	Basin-Wide Stormwater Drainage Plan Update	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2,764	1,422	8,178	10	146	684	137	50,911
08-51-000000250	City of Bartlett Regional Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1	0	1	0	0	1	0	5
08-51-000000252	City of Holland Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	3	0	51

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000253	City of Killeen Drainage Infrastructure Improvements	Upgrade undersized drainage system throughout the city to increase storm water capacity and reduce flooding.	Bell	08000008, 08000009, 08000010	Watershed Planning	54	Riverine, Local	08003530	08003530	No	\$ 583,000
08-51-000000256	City of Little River Academy Drainage Infrastructure Improvements	Upgrade undersized drainage system throughout the city to increase storm water capacity and reduce flooding.	Bell	08000008, 08000011	Watershed Planning	2	Riverine, Local	08002878	08002878	No	\$ 185,000
08-51-000000259	Improve Levee Crossing and Old Nolanville Road	Design of drainage feature improvements to increase capacity and study to ensure they are within standards.	Bell	08000008, 08000010	Project Planning	32	Riverine, Coastal, Local	08002883	08002883	No	\$ 50,000
08-51-000000266	City of Rogers Drainage Infrastructure Improvements	Drainage feature improvements to increase capacity and ensure infrastructure is within standards.	Milam, Bell	08000011	Watershed Planning	19	Riverine, Local	08003526	08003526	No	\$ 397,000
08-51-000000272	City of Temple Drainage Channel Improvements	Upgrade drainage channels within the city to reduce flooding to residential and commercial structures.	Bell	08000008, 08000009, 08000011	Watershed Planning	74	Riverine, Local	08002423	08002423	No	\$ 659,000
08-51-000000273	City of Troy Drainage System Improvements	Upgrade undersized drainage system throughout the city to increase storm water capacity and reduce flooding.	Bell	08000011	Watershed Planning	4	Riverine, Local	08003527	08003527	No	\$ 230,000
08-51-000000277	Cow House Creek Retention Structure	Addition of retention facility to contain flood waters and mitigate flooding.	Coryell, Mills, Hamilton, Comanche	08000008, 08000009, 08000010	Project Planning	237	Local	08003341	08003341	No	\$ 73,000
08-51-000000278	Hamilton City Lake Dam Failure Study	Develop study to determine/ address flood risk.	Hamilton	08000008, 08000009	Preparedness	30	Riverine	08003341	08003341	No	\$ 174,000
08-51-000000281	Hamilton County Electric Gates for Pecan Creek Dam	Improve dam to reduce flood risk downstream.	Hamilton	08000008, 08000009	Project Planning	30	Riverine, Local	08000140	08000140	No	\$ 50,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-000000253	City of Killeen Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		799	564	2,707	2	49	161	15	362
08-51-000000256	City of Little River Academy Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		7	3	11	0	1	3	0	54
08-51-000000259	Improve Levee Crossing and Old Nolanville Road	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		247	113	489	1	8	39	12	710
08-51-000000266	City of Rogers Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		10	0	9	0	0	5	1	1,440
08-51-000000272	City of Temple Drainage Channel Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		421	255	2,090	2	8	127	14	1,053
08-51-000000273	City of Troy Drainage System Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		23	13	38	0	2	8	3	61
08-51-000000277	Cow House Creek Retention Structure	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		56	21	31	0	3	76	23	7,483
08-51-000000278	Hamilton City Lake Dam Failure Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		104	39	410	1	9	55	5	761
08-51-000000281	Hamilton County Electric Gates for Pecan Creek Dam	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		104	39	410	1	9	55	5	761

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000289	City of Hico Drainage System Improvements	Upgrade undersized culverts to increase capacity and implement debris removal for ditches.	Hamilton	08000004	Watershed Planning	1	Riverine, Local	08003295	08003295	No	\$ 165,000
08-51-000000290	Milam County Emergency Hazard Plan	Obtain Belton and Stillhouse Dam inundation maps and participate in hazard drills.	Milam	08000005, 08000006, 08000011, 08000012	Preparedness	1,017	Riverine, Local	08000054	08000054	No	\$ 20,000
08-51-000000291	Milam County Roads Improvements	Improvement of drainage across county roads.	Milam	08000005, 08000006, 08000011, 08000012	Watershed Planning	1,017	Riverine, Local	08000054	08000054	No	\$ 1,883,000
08-51-000000295	City of Buckholts Drainage Master Plan	Develop study to determine/ address flood risk.	Milam	08000011	Watershed Planning	1	Riverine, Local	08003035	08003035	No	\$ 164,000
08-51-000000296	City of Cameron H&H Study to Determine Projects	Develop study to determine/ address flood risk.	Milam	08000011	Watershed Planning	5	Riverine, Local	08003036	08003036	No	\$ 250,000
08-51-000000297	Little River Ox Bow and Dam Improvement and Relocation	Improve dam to reduce flood risk downstream.	Milam	08000011	Project Planning	35	Riverine, Local	08003036	08003036	No	\$ 219,000
08-51-000000298	City of Milano H&H Study to Determine Improvement Projects	Develop study to determine/ address flood risk.	Milam	08000006, 08000011, 08000012	Watershed Planning	4	Riverine, Local	08003036	08003036	No	\$ 179,000
08-51-000000300	City of Rockdale H&H Study to Determine Improvement Projects	Develop study to determine/ address flood risk.	Milam	08000005, 08000011	Watershed Planning	2	Riverine, Local	08003036	08003036	No	\$ 229,000
08-51-000000322	Teague Master Drainage Plan	Develop study to determine/ address flood risk.	Freestone	08000007	Watershed Planning	5	Riverine, Local	00002464	00002464	No	\$ 250,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000289	City of Hico Drainage System Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		71	40	105	1	0	31	3	71
08-51-0000000290	Milam County Emergency Hazard Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		496	288	589	3	14	254	83	97,008
08-51-0000000291	Milam County Roads Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		496	288	589	3	14	254	83	97,008
08-51-0000000295	City of Buckholts Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	10
08-51-0000000296	City of Cameron H&H Study to Determine Projects	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		47	37	107	1	1	15	1	115
08-51-0000000297	Little River Ox Bow and Dam Improvement and Relocation	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		51	37	111	1	1	21	5	4,143
08-51-0000000298	City of Milano H&H Study to Determine Improvement Projects	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	1	0	0	0	0
08-51-0000000300	City of Rockdale H&H Study to Determine Improvement Projects	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		187	153	289	0	0	35	4	10
08-51-0000000322	Teague Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	9

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000323	Teague Riverine Erosion Control Master Plan	Develop study to determine/ address flood risk.	Freestone	08000007	Watershed Planning	21	Riverine	00002464	00002464	No	\$ 406,000
08-51-000000324	City of Teague Drainage Infrastructure Improvements	Drainage feature improvements to increase capacity and ensure they are within standards.	Freestone	08000007	Watershed Planning	3	Riverine, Local	00002464	00002464	No	\$ 216,000
08-51-000000327	Grimes County Drainage Infrastructure Improvements	Identify flood-prone areas and determine mitigation including enlarging culverts under roads and bridges.	Washington, Grimes	08000005, 08000007	Watershed Planning	799	Riverine, Local	00000044	00000044	No	\$ 1,706,000
08-51-000000331	Improve Cedar Creek	Improvements to channel to increase conveyance capacity.	Grimes, Brazos	08000005, 08000007	Project Planning	13	Riverine	08003413	08003413	No	\$ 111,000
08-51-000000333	Drainage Study of Cedar Creek	Conduct a drainage study of Cedar Creek to identify flood areas and provide accurate data to assist the community with existing and future management of mitigation issues.	Bell	08000008, 08000011	Watershed Planning	30	Riverine	08003413	08003413	No	\$ 174,000
08-51-000000334	Drainage Study of Sandy Creek Tributary	Conduct drainage study of Sandy Creek Tributary and complete a flood control project to reduce flood levels on new structures.	Grimes	08000005, 08000007	Watershed Planning	59	Riverine	08003413	08003413	No	\$ 305,000
08-51-000000371	Drainage Improvements along CR1139	Drainage feature improvements to increase capacity and ensure they are within standards.	Lampasas	08000010	Project Planning	5	Riverine, Local	00000064	00000064	No	\$ 50,000
08-51-000000372	Drainage Improvements along CR4450	Drainage feature improvements to increase capacity and ensure they are within standards.	Lampasas	08000010	Project Planning	2	Riverine, Local	00000064	00000064	No	\$ 50,000
08-51-000000373	Lampasas County Curbing and Drainage Improvements	Study to determine how to install an effective curbing and drainage system	Lampasas	08000009, 08000010	Watershed Planning	711	Riverine, Local	00000064	00000064	No	\$ 1,627,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000323	Teague Riverine Erosion Control Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		55	27	38	0	0	9	1	712
08-51-0000000324	City of Teague Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-0000000327	Grimes County Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		662	383	1,533	5	13	149	37	30,990
08-51-0000000331	Improve Cedar Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		286	189	1,048	2	4	57	10	2,157
08-51-0000000333	Drainage Study of Cedar Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		11	0	3	0	3	12	4	612
08-51-0000000334	Drainage Study of Sandy Creek Tributary	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		226	137	426	3	0	38	8	3,030
08-51-0000000371	Drainage Improvements along CR1139	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	2	0	13
08-51-0000000372	Drainage Improvements along CR4450	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1	0	0	0	0	0	0	17
08-51-0000000373	Lampasas County Curbing and Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		788	299	3,183	6	34	161	25	9,390

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000000378	Improve Flood Risk Assessment for Lee County	Incorporating the procedures for tracking high-water marks following a flood into emergency response plans. Using GIS to map areas that are at risk from flooding. Developing and maintaining a database to track community exposure to flood risk.	Lee	08000006	Preparedness	631	Riverine, Local	00000032	00000032	No	\$ 50,000
08-51-0000000379	Lee County Floodplain Management Plan	Develop a new floodplain management plan. Adopting a post-disaster recovery ordinance.	Lee	08000006	Preparedness	631	Riverine	00000032	00000032	No	\$ 50,000
08-51-0000000384	Lee County Project Prioritization Study	Develop study to determine/ address flood risk.	Lee	08000006	Project Planning	631	Riverine, Local	00000032	00000032	No	\$ 1,550,000
08-51-0000000388	City of Lexington Floodplain Management Plan	Develop a new floodplain management plan. Adopting a post-disaster recovery ordinance.	Lee	08000006	Preparedness	1	Riverine	00000032	00000032	No	\$ 50,000
08-51-0000000396	City of Marquez Drainage Infrastructure Improvements	Study to determine whether new infrastructure is needed or how to improve existing drainage infrastructure.	Leon	08000007	Watershed Planning	1	Riverine, Local	08003174	08003174	No	\$ 162,000
08-51-0000000398	City of Normangee Drainage Infrastructure Improvements	Study to determine whether new infrastructure is needed or how to improve existing drainage infrastructure.	Madison, Leon	08000007	Watershed Planning	1	Riverine, Local	00002909	00002909	No	\$ 155,000
08-51-0000000405	City of Groesbeck Expand Drainage Ditches	Determine where to deepen and widen ditches to allow for rapid runoff of stormwater.	Limestone	08000007	Watershed Planning	4	Riverine, Local	08003319	08003319	No	\$ 236,000
08-51-0000000508	City of Bryson Stream Restoration Program	Implement stream restoration / channelization program to ensure adequate drainage / diversion of stormwater.	Jack	08000001	Project Planning	1	Riverine	08003226	08003226	No	\$ 159,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000378	Improve Flood Risk Assessment for Lee County	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		204	45	59	0	38	85	32	19,785
08-51-0000000379	Lee County Floodplain Management Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		204	45	59	0	38	85	32	19,785
08-51-0000000384	Lee County Project Prioritization Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		204	45	59	0	38	85	32	19,785
08-51-0000000388	City of Lexington Floodplain Management Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-0000000396	City of Marquez Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		58	0	31	0	0	11	1	44
08-51-0000000398	City of Normangee Drainage Infrastructure Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		78	0	82	0	0	5	0	11
08-51-0000000405	City of Groesbeck Expand Drainage Ditches	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		62	48	105	0	0	19	1	70
08-51-0000000508	City of Bryson Stream Restoration Program	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000000518	City of Graham Upgrade Drainage Features	Upgrade undersized stormwater drains and culverts.	Young	08000001	Watershed Planning	6	Riverine, Local	08003406	08003406	No	\$ 256,000
08-51-0000000523	Create 2nd Main Water Line	New water line to increase capacity of system.	Young	08000001	Project Planning	27	Local	08003406	08003406	No	\$ 73,000
08-51-0000000534	Comprehensive Flood Risk Study	Develop study to determine/ address flood risk.	Young, Archer	08000001	Preparedness	29	Riverine, Local	08003407	08003407	No	\$ 171,000
08-51-0000000542	City of Olney Upgrade Drainage Features	Comprehensive study of flood risk and reduction alternatives.	Young	08000001	Watershed Planning	2	Riverine, Local	08003407	08003407	No	\$ 184,000
08-51-0000000551	Robertson County Master Drainage Plan	Develop study to determine/ address flood risk.	Robertson	08000005, 08000007	Watershed Planning	862	Riverine, Local	08000063	08000063	No	\$ 1,759,000
08-51-0000000553	Dam/Levee Failure Study	Develop study to determine/ address flood risk.	Robertson	08000005, 08000007	Preparedness	862	Riverine	08000063	08000063	No	\$ 3,799,000
08-51-0000000559	Calvert Master Drainage Plan	Develop study to determine/ address flood risk.	Robertson	08000005	Watershed Planning	4	Riverine, Local	08003416	08003416	No	\$ 227,000
08-51-0000000563	Franklin Master Drainage Plan	Develop study to determine/ address flood risk.	Robertson	08000005, 08000007	Watershed Planning	1	Riverine, Local	08003340	08003340	No	\$ 157,000
08-51-0000000581	Three Mile Creek Watershed Study	Watershed based planning and analysis to determine flood risk.	Waller	08000005, 08000013, 08000014	Watershed Planning	516	Riverine	00000024	00000024	No	\$ 2,312,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000518	City of Graham Upgrade Drainage Features	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		408	220	777	3	5	36	9	32
08-51-0000000523	Create 2nd Main Water Line	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		506	248	868	3	6	51	13	762
08-51-0000000534	Comprehensive Flood Risk Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		254	164	237	0	0	48	12	1,971
08-51-0000000542	City of Olney Upgrade Drainage Features	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		203	140	192	0	0	30	5	40
08-51-0000000551	Robertson County Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		928	479	1,676	5	7	177	97	88,095
08-51-0000000553	Dam/Levee Failure Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		928	479	1,676	5	7	177	97	88,095
08-51-0000000559	Calvert Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		25	10	23	0	0	17	2	143
08-51-0000000563	Franklin Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2	0	28	1	0	0	0	34
08-51-0000000581	Three Mile Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2,038	1,007	1,327	0	15	194	89	43,836

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General Metrics											
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08-51-000000601	Cleanup of Indian Creek	Maintenance efforts to preserve hydraulic capacity and decrease risk to Railroad St.	Washington	08000005, 08000006, 08000013	Project Planning	40	Riverine	08003424	08003424	No	\$ 50,000
08-51-000000605	Williamson County Comprehensive Flood Protection Plan	Develop study to determine/ address flood risk.	Williamson	08000006, 08000010, 08000011, 08000012	Preparedness	1,131	Riverine, Local	00000043	00000043	No	\$ 100,000
08-51-000000610	New Town West Outlet Structure	New infrastructure to improve drainage conditions.	Travis, Williamson	08000012	Project Planning	46	Riverine, Local	08002577	08002577	No	\$ 50,000
08-51-000000611	Town of San Felipe Harvey State Mitigation Project	Improvement and upgrade of many drainage features throughout San Felipe.	Austin	08000013	Project Planning	9	Riverine, Local	08003423	08003423	No	\$ 155,000
08-51-000000613	City of Freeport Sanitary System Flood Proofing	Implementation of point repairs, lateral seals, and manhole rehabilitation to protect system from storm events.	Brazoria	08000013, 08000014	Project Planning	18	Local	00002984	00002984	No	\$ 251,000
08-51-000000615	Clute Regional Flood Risk Reduction	Ditch improvements at several key locations to reduce flood risk.	Brazoria	08000014	Preparedness	6	Local	08002994	08002994	No	\$ 62,000
08-51-000000616	City of Oyster Creek Sanitary System Flood Proofing	Implementation of point repairs, lateral seals, and manhole rehabilitation to protect system from storm events.	Brazoria	08000014	Project Planning	2	Local	08003093	08003093	No	\$ 229,000
08-51-000000618	Glenwood Bayou Drainage Improvements	Improvement and upgrade of many drainage features throughout Glenwood Bayou.	Brazoria	08000014	Project Planning	5	Local	08003097	08003097	No	\$ 157,000
08-51-000000619	Angleton Drainage Project	Improvement and upgrade of many drainage features throughout Glenwood Bayou.	Brazoria	08000014	Project Planning	12	Local	08002983	08002983	No	\$ 1,127,000

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		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-000000601	Cleanup of Indian Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		28	13	279	1	2	28	9	2,581
08-51-000000605	Williamson County Comprehensive Flood Protection Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		3,519	2,758	7,496	5	167	728	167	67,370
08-51-000000610	New Town West Outlet Structure	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		234	175	624	1	8	49	9	2,253
08-51-000000611	Town of San Felipe Harvey State Mitigation Project	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		177	87	169	0	0	23	8	597
08-51-000000613	City of Freeport Sanitary System Flood Proofing	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		575	428	2,566	3	0	45	18	76
08-51-000000615	Clute Regional Flood Risk Reduction	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		7	0	18	0	0	2	1	52
08-51-000000616	City of Oyster Creek Sanitary System Flood Proofing	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		14	7	3	0	0	2	1	7
08-51-000000618	Glenwood Bayou Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,000	917	2,783	6	0	38	16	217
08-51-000000619	Angleton Drainage Project	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		67	65	170	0	0	10	7	104

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General Metrics											
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08-51-000000625	Texas Historical Commission & Brazoria County Joint Mitigation Application 1 FINAL	Phased project to assess, design, and build both service and emergency spillways and implement drainage improvements to the Columbia Lakes Reservoir.	Brazoria	08000013	Project Planning	5	Local	00000003	00000003	No	\$ 329,000
08-51-000000627	West Columbia Drainage Improvements	Improvements to 7 major drainage channels.	Brazoria	08000013	Project Planning	3	Local	00003144	00003144	No	\$ 231,000
08-51-000000629	City of Eastland Dam Repairs	Maintenance and spillway improvements to Ringling Lake dam and Lake Eastland Dam.	Eastland	08000008	Project Planning	46	Riverine	08002766	08002766	No	\$ 388,000
08-51-000000632	Richmond Northside Drainage Improvements	Engineering study to determine how to elevate several key structures above base flood elevations.	Fort Bend	08000013	Project Planning	5	Local	08002515	08002515	No	\$ 303,000
08-51-000000633	Brazos River Stabilization	Riverbank stabilization along SH 99 and US 59/I-69 using environmentally friendly solutions.	Fort Bend	08000013	Project Planning	2	Riverine	00000009	00000009, 00000003	No	\$ 2,958,000
08-51-000000634	City of Navasota Harvey State Mitigation Project	Drainage and street improvements along 3 major routes integral to the City.	Grimes, Brazos	08000005, 08000007	Project Planning	8	Local	00000044	00000044	No	\$ 173,000
08-51-000000635	City of Lexington Drainage Improvements	Storm sewer, culvert, and drainage ditch improvements at 3 areas of interest.	Lee	08000006	Project Planning	1	Local	08003403	08003403	No	\$ 267,000
08-51-000000636	City of Rockdale Supplemental Drainage Project	Addition of storm sewer drainage to supplement roadside ditch.	Milam	08000006, 08000011, 08000012	Project Planning	4	Local	08003045	08003045	No	\$ 229,000
08-51-000000637	Town of Buckholts Harvey Mitigation	Increase capacity of hydraulic features and redirect water away from water treatment plant.	Milam	08000011	Project Planning	1	Riverine, Local	08003035	08003035	No	\$ 200,000

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FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000625	Texas Historical Commission & Brazoria County Joint Mitigation Application 1 FINAL	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		20	12	11	0	0	4	1	166
08-51-0000000627	West Columbia Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		21	20	50	0	0	6	0	1
08-51-0000000629	City of Eastland Dam Repairs	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		334	181	829	5	0	92	14	394
08-51-0000000632	Richmond Northside Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		252	151	385	6	0	22	6	545
08-51-0000000633	Brazos River Stabilization	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		3	0	0	0	0	2	3	255
08-51-0000000634	City of Navasota Harvey State Mitigation Project	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		455	319	1,428	5	4	76	12	348
08-51-0000000635	City of Lexington Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-0000000636	City of Rockdale Supplemental Drainage Project	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		187	153	289	1	0	35	4	10
08-51-0000000637	Town of Buckholts Harvey Mitigation	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	10

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General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000639	Ham Branch Watershed Flood Mitigation	Implementation of several drainage features and streambank stabilization.	Milam	08000006, 08000011, 08000012	Watershed Planning	17	Riverine, Local	08003045	08003045	No	\$ 113,000
08-51-000000640	City of Milano Citywide Road and Drainage Improvements	Street improvements and addition of accompanying drainage features.	Milam	08000005, 08000011	Project Planning	2	Local	08003044	08003044	No	\$ 50,000
08-51-000000641	Hempstead Citywide Drainage Project	Improvements to roadside ditch and addition of 2 detention facilities.	Waller	08000005, 08000013	Project Planning	7	Riverine, Local	08003387	08003387	No	\$ 368,000
08-51-000000642	Burton Drainage & Flooding Improvements	Floodproofing of lift stations and water treatment plants, and street drainage improvements.	Washington	08000013	Project Planning	1	Local	08003425	08003425	No	\$ 177,000
08-51-000000643	Hogg Branch Creek Improvements	Channel improvements to increase drainage throughout Brenham.	Washington	08000005, 08000013	Project Planning	9	Riverine, Local	08003424	08003424	No	\$ 219,000
08-51-000000644	City of Taylor Regional Detention and Channel Improvements	Addition of 2 drainage facilities in the region and corresponding channel improvements.	Williamson	08000012	Watershed Planning	21	Riverine, Local	08003480	08003480	No	\$ 406,000
08-51-000000646	Briar Creek Improvements	Channel and crossing improvements along Briar Creek and Red River Trib to increase capacity of hydraulic infrastructure.	Brazos	08000007	Project Planning	3	Riverine	08003438	08003438	No	\$ 364,000
08-51-000000657	Briarcreek Court Flooding	Study to determine source and mitigation for flooding in the subdivision.	Brazos	08000007	Project Planning	1	Local	08003438	08003438	No	\$ 83,000
08-51-000000663	Burton Creek Crossings	Update design to account for Atlas 14 rainfall.	Brazos	08000005, 08000007	Project Planning	5	Riverine	08003438	08003438	No	\$ 100,000

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FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-000000639	Ham Branch Watershed Flood Mitigation	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		192	156	295	1	0	38	4	124
08-51-000000640	City of Milano Citywide Road and Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-000000641	Hempstead Citywide Drainage Project	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		53	50	88	0	3	40	4	27
08-51-000000642	Burton Drainage & Flooding Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2	0	108	1	0	6	1	27
08-51-000000643	Hogg Branch Creek Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		62	28	140	1	2	32	2	688
08-51-000000644	City of Taylor Regional Detention and Channel Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		88	63	194	0	11	35	5	741
08-51-000000646	Briar Creek Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		100	93	191	0	5	15	2	7
08-51-000000657	Briarcreek Court Flooding	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		77	73	160	0	2	9	1	0
08-51-000000663	Burton Creek Crossings	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		276	224	1,179	1	5	36	3	0

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08-51-000000669	Burton Creek Trib C Improvements	2-9'x5' box culverts are needed to replace the existing culverts in order to convey the 50-year storm event per the TxDOT design requirement. Channel widening and re-grading may be necessary to mitigate any adverse impacts. Detailed design for the 100-y*	Brazos	08000007	Project Planning	1	Riverine	08003438	08003438	No	\$ 100,000
08-51-000000671	Tract North of Carson Crossing	Channel and crossing improvements along Trib D feeding into County Club Lake.	Brazos	08000005, 08000007	Project Planning	2	Riverine	08003438	08003438	No	\$ 214,000
08-51-000000678	Burton Creek Main Stem Improvements	Channel and crossing improvements along Burton Creek mainstem from SH 6 to S Coulter Dr.	Brazos	08000005, 08000007	Project Planning	7	Riverine	08003438	08003438	No	\$ 514,000
08-51-000000686	Oakridge Drive and Barak Lake	Study to determine storm sewer needed to mitigate flooding in subdivision.	Brazos	08000007	Project Planning	1	Local	08003438	08003438	No	\$ 129,000
08-51-000000690	Burton Creek Trib 5 Mitigation	Design of erosion control and channel improvements for Trib 5 of Burton Creek.	Brazos	08000007	Project Planning	3	Riverine	08003438	08003438	No	\$ 194,000
08-51-000000706	Briar Oaks Drive Storm Sewer Improvements	Update design to account for Atlas 14 rainfall.	Brazos	08000007	Project Planning	1	Local	08003438	08003438	No	\$ 50,000
08-51-000000716	Pecan Ridge Subdivision Flooding	Masterplan to determine source of flooding and identify potential solutions.	Brazos	08000007	Project Planning	3	Local	08003438	08003438	No	\$ 50,000
08-51-000000717	Old Reliance Road Overtopping	Study to determine design of culvert improvements.	Brazos	08000007	Project Planning	5	Local	08003438	08003438	No	\$ 51,000
08-51-000000718	Castle Heights Subdivision Flooding	Study to determine necessary detention, storm sewer, and other drainage improvements for Castle Heights subdivision.	Brazos	08000007	Project Planning	2	Local	08003438	08003438	No	\$ 221,000
08-51-000000719	Carter's Creek Trib B Improvements	Study to design culvert improvements along Carter's Creek Trib B.	Brazos	08000005, 08000007	Project Planning	3	Riverine	08003438	08003438	No	\$ 127,000

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08-51-000000669	Burton Creek Trib C Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		20	20	49	0	0	1	0	0
08-51-000000671	Tract North of Carson Crossing	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		72	30	167	1	4	11	2	0
08-51-000000678	Burton Creek Main Stem Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		348	254	1,235	2	9	47	4	0
08-51-000000686	Oakridge Drive and Barak Lake	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		76	38	730	1	0	7	0	0
08-51-000000690	Burton Creek Trib 5 Mitigation	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		159	105	838	1	4	18	2	0
08-51-000000706	Briar Oaks Drive Storm Sewer Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		76	38	730	1	0	7	0	0
08-51-000000716	Pecan Ridge Subdivision Flooding	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		88	84	383	0	0	14	1	20
08-51-000000717	Old Reliance Road Overtopping	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		130	119	397	0	2	18	1	90
08-51-000000718	Castle Heights Subdivision Flooding	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		39	31	11	0	0	6	0	64
08-51-000000719	Carter's Creek Trib B Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		32	25	32	0	4	22	2	3

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08-51-0000000723	Ranchettes 2 and 3 - East	Update road and add drainage swale.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 53,000
08-51-0000000724	Ranchettes 2 and 3 - West	Update road and add drainage swale.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 81,000
08-51-0000000725	Ranchettes 4 - North	Local infrastructure improvements including additon of drainage swales to the roads.	Travis, Williamson	08000012	Project Planning	26	Riverine	00003454	00003454	No	\$ 96,000
08-51-0000000726	Ranchettes 4 - South A	Update road and add drainage swale.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 83,000
08-51-0000000727	Ranchettes 4 - South B	Update road and add drainage swale.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 71,000
08-51-0000000728	Ranchettes 6 and 6A - North B	Addition of roadside and interconnecting drainage swales.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 130,000
08-51-0000000729	Ranchettes 6 and 6A - North A	Addition of drainage swales that outfall into Block House Creek.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 56,000
08-51-0000000730	Block House Creek	Property acquisition and crossing improvements to create room for consistent channelization.	Travis, Williamson	08000012	Project Planning	26	Riverine	00003454	00003454	No	\$ 192,000
08-51-0000000733	Ranchettes 6 and 6A - South A	Local infrastructure improvements adjacent to the creek.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 126,000

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08-51-0000000723	Ranchettes 2 and 3 - East	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000724	Ranchettes 2 and 3 - West	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000725	Ranchettes 4 - North	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000726	Ranchettes 4 - South A	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000727	Ranchettes 4 - South B	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000728	Ranchettes 6 and 6A - North B	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000729	Ranchettes 6 and 6A - North A	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000730	Block House Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000733	Ranchettes 6 and 6A - South A	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000734	Ranchettes 6 and 6A - South B	Addition of roadside and interconnecting drainage swales. Addition of roadside and interconnecting drainage swales.	Travis, Williamson	08000012	Project Planning	26	Riverine	00003454	00003454	No	\$ 127,000
08-51-000000735	Riviera - Northwest	Addition of roadside drainage swale and several outfalls into the floodplain.	Travis, Williamson	08000012	Project Planning	26	Riverine	00003454	00003454	No	\$ 76,000
08-51-000000736	Riviera - East	Addition of roadside drainage swale and several outfalls into the floodplain.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 125,000
08-51-000000737	Riviera - Southwest	Addition of roadside drainage swale and several outfalls into the floodplain.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 74,000
08-51-000000738	Cluck Creek - Upper	Re-grading of natural channel.	Travis, Williamson	08000012	Project Planning	26	Riverine	00003454	00003454	No	\$ 78,000
08-51-000000739	Cluck Creek - Lower	Re-grading of natural channel.	Travis, Williamson	08000012	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 155,000
08-51-000000740	Deer Run	Addition of underground storm drainage and associated inlets.	Travis, Williamson	08000012	Project Planning	26	Riverine	00003454	00003454	No	\$ 80,000
08-51-000000741	Spanish Oak Creek	Increase channel capacity.	Travis, Williamson	08000012	Project Planning	26	Riverine	00003454	00003454	No	\$ 80,000
08-51-000000745	Suja Lane	Implementation of detention basin to alleviate street and property flooding.	Lampasas, Coryell	08000009, 08000010	Project Planning	3	Riverine, Local	08002713	08002713	No	\$ 50,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000734	Ranchettes 6 and 6A - South B	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000735	Riviera - Northwest	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000736	Riviera - East	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000737	Riviera - Southwest	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000738	Cluck Creek - Upper	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000739	Cluck Creek - Lower	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000740	Deer Run	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000741	Spanish Oak Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	11	41	5	102
08-51-0000000745	Suja Lane	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		20	20	35	0	2	23	1	4

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000752	Goode - Connell Park Regional Detention Pond Improvement & Proposed Drainage Channel	Expand the regional detention pond to reduce outflow and improve outlet channel.	Bell	08000008, 08000010	Project Planning	32	Riverine, Local	08002737	08002737	No	\$ 66,000
08-51-000000757	Indian Trail Downstream Channel Improvements	Channel improvements.	Bell	08000008, 08000010	Project Planning	16	Riverine, Local	08002737	08002737	No	\$ 50,000
08-51-000000762	Warriors Path Drainage Improvements	Drainage channel and structure improvements.	Bell	08000008, 08000010	Project Planning	6	Riverine, Local	08002737	08002737	No	\$ 266,000
08-51-000000782	Bunny Trail Drainage Improvements	Preliminary engineering to determine drainage improvements.	Bell	08000005, 08000008, 08000009, 08000010, 08000011, 08000012	Project Planning	1,082	Local	08003530	08003530	No	\$ 52,000
08-51-000000785	Andrus Channel Improvements	Channel improvements and re-configurations at several key locations	Fort Bend	08000014	Project Planning	5	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 300,000
08-51-000000865	Flat Bank Creek Widening and Clean-Out Project	Improvements to Flat Bank Creek.	Fort Bend	08000013, 08000014	Project Planning	12	Riverine	00000505	00000505	No	\$ 133,000
08-51-000000874	Nolan Creek Flood Protection Planning Study	Study to provide flood protection planning in the Nolan Creek Watershed and to develop an early warning system, local flood response plan, and possible flood protection plan.	Bell	08000008, 08000009, 08000010	Watershed Planning	68	Riverine	08000060	08000060	No	\$ 349,000
08-51-000000875	Waco Creek Diversion Tunnel	Addition of a diversion culvert to reroute flow from Waco Creek to the Brazos River. Additional improvements to existing diversion tunnels and crossings.	McLennan	08000002, 08000003	Project Planning	15	Riverine, Local	08002914	08002914	No	\$ 1,909,000
08-51-000000877	New Road to Homan Avenue Channel Improvements	Channel improvements to increase the conveyance capacity of the roadside ditch.	McLennan	08000002, 08000003	Project Planning	1	Riverine, Local	08002914	08002914	No	\$ 300,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000752	Goode - Connell Park Regional Detention Pond Improvement & Proposed Drainage Channel	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		247	113	489	1	8	39	12	710
08-51-0000000757	Indian Trail Downstream Channel Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		257	127	599	0	7	45	4	118
08-51-0000000762	Warriors Path Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		35	0	41	1	2	10	3	207
08-51-0000000782	Bunny Trail Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2,764	1,422	8,178	10	146	684	137	50,911
08-51-0000000785	Andrus Channel Improvements	Local, FEMA FMA, HUD CDBG-MIT		149	107	137	0	0	8	1	272
08-51-0000000865	Flat Bank Creek Widening and Clean-Out Project	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		30	20	36	0	0	7	1	362
08-51-0000000874	Nolan Creek Flood Protection Planning Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		388	153	2,305	5	11	85	17	1,864
08-51-0000000875	Waco Creek Diversion Tunnel	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		622	455	9,503	3	2	138	10	6
08-51-0000000877	New Road to Homan Avenue Channel Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		17	8	93	0	0	0	2	0

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000878	S. MLK Jr Boulevard Channel Improvements	Channel improvements to increase the conveyance capacity of the roadside ditch.	McLennan	08000002	Project Planning	13	Riverine, Local	08002914	08002914	No	\$ 117,000
08-51-000000881	Sharondale, Carver and Browns Lake Drainage Improvements	Drainage infrastructure improvements to reduce flooding in the Sharondale, Carver, and Browns Lake areas.	McLennan	08000002	Project Planning	2	Riverine, Local	08002914	08002914	No	\$ 715,000
08-51-000000884	N. 10th, 15th, 31st, 33rd Street, and Grice Drive Buyouts	Property acquisition of several residencies at high flood risk.	McLennan	08000002	Project Planning	1	Riverine, Local	08002914	08002914	No	\$ 366,000
08-51-000000890	Loop 340 Berm & Frontage Road Improvements	Study to expand on the recently completed existing conditions model assessment. Conduct a needs assessment and identify mitigation solutions (FMPs) to be incorporated into the flood plan.	McLennan	08000002	Project Planning	6	Riverine, Local	08002914	08002914	No	\$ 300,000
08-51-000000921	City of Georgetown Increase River/Channel Flow Capacity	Increase flow by deepening and widening the channel.	Williamson	08000012	Project Planning	59	Riverine	08002580	08002580	No	\$ 606,000
08-51-000000922	City of Georgetown River Erosion Control	Reduce flood and erosion risk with riverbank stabilization and riverbank walls.	Williamson	08000012	Project Planning	59	Riverine	08002580	08002580	No	\$ 606,000
08-51-000000924	City of Georgetown Culvert Improvements	Increase size of culverts at key locations to adequately convey storm water.	Williamson	08000012	Project Planning	59	Riverine, Local	08002580	08002580	No	\$ 606,000
08-51-000000926	Channel Stabilization	Stabilize channel at inner loop culverts.	Williamson	08000012	Project Planning	48	Riverine	08002580	08002580	No	\$ 556,000
08-51-000000934	Low Water Crossing Monitoring & Mitigation	Install automated warning devices or elevate 2 low water crossings on CR 305.	Williamson	08000010, 08000011, 08000012	Project Planning	3	Riverine	08002869	08002869	No	\$ 217,000
08-51-000000936	Lift Station Floodproofing	Flood proof city lift stations or improve culverts to lessen flood risk.	Williamson	08000010, 08000011, 08000012	Project Planning	3	Riverine, Local	08002869	08002869	No	\$ 217,000
08-51-000000939	Dam Emergency Action Plan	Complete EAPs for Sites 9, 29, 2, 3, 6, 7, 17, 18, and 25 to be in compliance with TCEQ standards.	Williamson	08000006, 08000010, 08000011, 08000012	Preparedness	1,131	Riverine	00000043	08003532	No	\$ 500,000

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		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-000000878	S. MLK Jr Boulevard Channel Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		578	328	5,346	8	1	108	32	196
08-51-000000881	Sharondale, Carver and Browns Lake Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		578	328	5,346	1	1	108	32	196
08-51-000000884	N. 10th, 15th, 31st, 33rd Street, and Grice Drive Buyouts	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		129	121	549	1	0	31	1	0
08-51-000000890	Loop 340 Berm & Frontage Road Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		24	8	138	0	0	0	1	152
08-51-000000921	City of Georgetown Increase River/Channel Flow Capacity	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		175	123	1,526	0	6	82	19	1,792
08-51-000000922	City of Georgetown River Erosion Control	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		175	123	1,526	0	6	82	19	1,792
08-51-000000924	City of Georgetown Culvert Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		175	123	1,526	0	6	82	19	1,792
08-51-000000926	Channel Stabilization	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		366	282	795	0	9	102	19	2,627
08-51-000000934	Low Water Crossing Monitoring & Mitigation	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		1	0	2	0	0	4	2	45
08-51-000000936	Lift Station Floodproofing	Local, TWDB FIF, FEMA HMGP, TWDB CWSRF, FEMA BRIC, FEMA FMA		1	0	2	0	0	4	2	45
08-51-000000939	Dam Emergency Action Plan	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		3,519	2,758	7,496	5	167	728	167	67,370

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08-51-0000000941	Mustang Creek Study	Detailed H&H modeling to mitigate flooding from Upper Mustang Creek on the City of Taylor.	Williamson	08000012	Preparedness	55	Riverine	08003480	08003480	No	\$ 290,000
08-51-0000000942	Stream Crossing Upgrades	Upgrade crossings at CR 368, 369, 445, and 424.	Williamson	08000012	Project Planning	29	Riverine	08003480	08003480	No	\$ 463,000
08-51-0000000943	Lake Creek Structural Elevation	Elevate or floodproof structures currently in high risk areas. Use H&H modeling to prioritize properties.	Travis, Williamson	08000012	Project Planning	38	Riverine, Local	00003191	00003191	No	\$ 510,000
08-51-0000000944	Lake Creek Tributary 2	Develop H&H models for watershed and evaluate methods to provide flood protection to the area.	Travis, Williamson	08000012	Watershed Planning	28	Riverine	00003191	00003191	No	\$ 166,000
08-51-0000000945	Improve Chandler Branch Tributary	Channel improvements from Eagles Nest St to Settlement Dr.	Williamson	08000012	Project Planning	3	Riverine	00003191	00003191	No	\$ 202,000
08-51-0000000950	Barker Street Neighborhood Improvements	Determine optimal drainage improvements to maximize flood protection for the area.	Travis, Williamson	08000012	Watershed Planning	26	Local	08002568	08002568	No	\$ 440,000
08-51-0000000951	Brushy Creek Tributaries Study	Perform a detailed study of the Brushy Creek tributaries in the City of Thrall.	Williamson	08000012	Watershed Planning	11	Riverine	08002568	08002568	No	\$ 88,000
08-51-0000000953	A21	Addition of in-line detention along Cottonwood Creek.	Williamson	08000012	Project Planning	11	Riverine, Local	00000369	00000369	No	\$ 250,000
08-51-0000000954	A12	New Broade Street off-channel detention.	Travis, Williamson	08000012	Project Planning	61	Riverine, Local	00000369	00000369	No	\$ 257,000
08-51-0000000955	Dam 101	Construction of dam to provide flood storage for Lake Creek.	Travis, Williamson	08000012	Project Planning	28	Riverine	00000369	00000369	No	\$ 1,262,000
08-51-0000000956	Dam 102	Study to design dam to provide flood storage for Lake Creek.	Travis, Williamson	08000012	Project Planning	28	Riverine	00000369	00000369	No	\$ 1,000,000
08-51-0000000957	620 Quarry Solution	Study to determine needed flood storage to address Lake Creek flooding.	Travis, Williamson	08000012	Project Planning	28	Riverine	00003191	00003191	No	\$ 877,000

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		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000941	Mustang Creek Study	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		111	71	199	0	13	51	7	4,157
08-51-0000000942	Stream Crossing Upgrades	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		31	14	33	0	4	19	4	3,255
08-51-0000000943	Lake Creek Structural Elevation	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		234	192	698	1	11	57	5	414
08-51-0000000944	Lake Creek Tributary 2	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		224	195	1,458	1	13	45	7	151
08-51-0000000945	Improve Chandler Branch Tributary	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		21	18	38	0	1	13	0	10
08-51-0000000950	Barker Street Neighborhood Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		269	230	819	0	11	41	5	102
08-51-0000000951	Brushy Creek Tributaries Study	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		11	5	10	0	1	8	2	1,105
08-51-0000000953	A21	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		68	43	122	0	2	17	1	466
08-51-0000000954	A12	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		388	325	1,064	0	20	81	8	216
08-51-0000000955	Dam 101	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		224	195	1,458	1	13	44	7	151
08-51-0000000956	Dam 102	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		224	195	1,458	1	13	44	7	151
08-51-0000000957	620 Quarry Solution	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		224	195	1,458	0	13	44	7	151

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08-51-000000958	Dam 14 Rehabilitation	Study to design erosion repairs for the downstream slope, mitigation for the longitudinal cracking on the dam crest, and auxiliary spillway improvements.	Williamson	08000012	Project Planning	24	Riverine	00000369	00000369	No	\$ 148,000
08-51-000000959	A14	Addition of in-line detention west of Dam 17.	Williamson	08000012	Project Planning	12	Riverine, Local	00000369	00000369	No	\$ 250,000
08-51-000000960	A13	Addition of in-line detention between Dam 15 and 16.	Williamson	08000012	Project Planning	24	Riverine, Local	00000369	00000369	No	\$ 250,000
08-51-000000966	Simonton Ring Levee	Construction of a ring levee to protect Brazos Valley Development between Bessie's Creek and the Brazos River.	Fort Bend, Austin, Waller	08000013, 08000014	Project Planning	113	Riverine	08002938	08002938	No	\$ 1,828,000
08-51-000000967	Weston Lakes Levee	Construction of 2 levees to protect the Weston Lake Development.	Fort Bend, Austin, Waller	08000013, 08000014	Project Planning	83	Riverine	00002923	00002923	No	\$ 551,000
08-51-000000968	Columbia Lakes Levee	Construction of 2 levees to protect the Columbia Lakes Development.	Brazoria	08000013, 08000014	Project Planning	49	Riverine	00003144	00003144	No	\$ 382,000
08-51-000000969	Oyster Creek Levee	Construction of a ring levee to protect the Lake Jackson Development.	Brazoria	08000013, 08000014	Project Planning	94	Riverine	00002981	00002981	No	\$ 4,686,000
08-51-000000970	Pecan Grove Levee	Construction of a ring levee to protect development in the Bullhead Bayou and Pecan Grove area.	Fort Bend	08000013, 08000014	Project Planning	116	Riverine	08002515	08002515	No	\$ 2,368,000
08-51-000000973	Lower Oyster Creek Improvements	Channel bank fill and improvements to create smooth transitions between diversion, flume, and creek channels during large storm improvements.	Fort Bend	08000013, 08000014	Project Planning	2	Riverine, Local	00002789	00002789	No	\$ 54,000
08-51-000000976	Sugar Creek Watershed Analysis	Complete a drainage study for the Sugar Creek neighborhood to mitigate flooding risk.	Fort Bend	08000014	Watershed Planning	2	Riverine	00002517	00002517	No	\$ 50,000

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		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000000958	Dam 14 Rehabilitation	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		28	11	91	0	0	12	1	399
08-51-0000000959	A14	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		8	3	216	0	2	9	1	427
08-51-0000000960	A13	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		28	11	91	0	0	12	1	399
08-51-0000000966	Simonton Ring Levee	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2,546	1,703	2,826	1	2	171	88	22,600
08-51-0000000967	Weston Lakes Levee	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,308	836	1,951	1	2	114	39	12,478
08-51-0000000968	Columbia Lakes Levee	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		620	442	850	0	0	49	21	5,093
08-51-0000000969	Oyster Creek Levee	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		3,718	3,208	7,487	3	0	235	149	17,819
08-51-0000000970	Pecan Grove Levee	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		3,662	2,928	6,574	12	1	231	73	16,072
08-51-0000000973	Lower Oyster Creek Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		30	26	58	0	0	18	3	373
08-51-0000000976	Sugar Creek Watershed Analysis	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		26	14	165	0	0	18	2	1

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-000000978	Colony Bend, Colony Grant, Stephens Grant Drainage Improvements	Complete a drainage study, design, and construction of drainage improvements to reduce flooding risk in the neighborhoods.	Fort Bend	08000013	Project Planning	1	Local	00002517	00002517	No	\$ 421,000
08-51-000000979	City of Sugar Land Flood Inundation Mapping	Update of the Integrated Stormwater Management Model to include improvements to predictions in leveed areas.	Fort Bend	08000013, 08000014	Watershed Planning	43	Riverine	00002517	00002517	No	\$ 233,000
08-51-000000980	Chimneystone, Austin, and Settlers Parks Improvements Phase III	Design and construct drainage improvements to Wagon Trail and Settlers Way in Settlers Park.	Fort Bend	08000013	Project Planning	1	Local	00002517	00002517	No	\$ 551,000
08-51-000000981	Sugar Creek East Ditch	Install box culverts in the Sugar Creek East Ditch for storm water control.	Fort Bend	08000014	Project Planning	2	Riverine	00002517	00002517	No	\$ 253,000
08-51-000000982	Lakebend Sugar Creek Outfall & Drainage	Replace outfall structure and channel improvements at Sugar Creek & Parkway Blvd and upsize storm water systems.	Fort Bend	08000014	Project Planning	2	Riverine	00002517	00002517	No	\$ 388,000
08-51-000000987	Telfair Inlet Replacements	Update storm water inlets.	Fort Bend	08000013	Project Planning	2	Local	00002517	00002517	No	\$ 73,000
08-51-000000988	Greatwood Inlet Replacements	Update storm water inlets.	Fort Bend	08000013	Project Planning	3	Local	00002517	00002517	No	\$ 82,000
08-51-000000989	New Territory Inlet Replacements	Update storm water inlets.	Fort Bend	08000013	Project Planning	3	Local	00002517	00002517	No	\$ 92,000
08-51-000000990	LID 2 Watershed Analysis	Complete a drainage study for the Sugar Creek neighborhood to mitigate flooding risk.	Fort Bend	08000013, 08000014	Watershed Planning	8	Riverine, Local	00002517	00002517	No	\$ 75,000
08-51-000000998	Pierce Street Storm Drain Improvements	Upsizing of storm sewer throughout the neighborhood to prevent flooding for the 10-year storm.	Brazos	08000007	Project Planning	1	Riverine	08003438	08003438	No	\$ 129,000
08-51-000000999	Hudson Creek Regional Detention	Study to design regional detention upstream of Copperfield to mitigate flooding and maintenance problems.	Brazos	08000007	Project Planning	3	Riverine, Local	08003438	08003438	No	\$ 160,000
08-51-000001003	Tennessee Avenue Crossing	A study and detailed design needs to be completed to assess the flooding and design culvert improvements to reduce road overtopping.	Brazos	08000005, 08000007	Project Planning	4	Local	08003438	08003438	No	\$ 50,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-000000978	Colony Bend, Colony Grant, Stephens Grant Drainage Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-000000979	City of Sugar Land Flood Inundation Mapping	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		442	350	835	2	0	96	18	1,687
08-51-000000980	Chimneystone, Austin, and Settlers Parks Improvements Phase III	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-000000981	Sugar Creek East Ditch	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		26	14	165	0	0	18	2	1
08-51-000000982	Lakebend Sugar Creek Outfall & Drainage	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		26	14	165	0	0	18	2	1
08-51-000000987	Telfair Inlet Replacements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-000000988	Greatwood Inlet Replacements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	0
08-51-000000989	New Territory Inlet Replacements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	1	0	0
08-51-000000990	LID 2 Watershed Analysis	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	2
08-51-000000998	Pierce Street Storm Drain Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		20	20	49	0	0	0	0	0
08-51-000000999	Hudson Creek Regional Detention	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		26	21	86	0	0	3	0	12
08-51-000001003	Tennessee Avenue Crossing	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		126	117	310	0	5	36	2	20

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001005	Lynndale Acres Ph 2: Old Hearne and McHaney Street	A study of the drainage area is needed to assess and propose improvements to reduce flooding in the area. As part of this study, alternatives should be recommended.	Brazos	08000005, 08000007	Project Planning	2	Local	08003438	08003438	No	\$ 73,000
08-51-0000001009	Thompsons Branch & SH 6 Drainage Improvements	Study to design several improvements to mitigate flooding at the crossing.	Brazos	08000005, 08000007	Project Planning	28	Riverine, Local	08003438	08003438	No	\$ 137,000
08-51-0000001015	Turkey Creek Drainage Improvements	Detailed design of improvements throughout the Turkey Creek watershed, especially to fix erosion problems.	Brazos	08000005, 08000007	Project Planning	9	Riverine, Local	08003438	08003438	No	\$ 222,000
08-51-0000001020	South For of Turkey Creek Improvements	Erosion control and crossing improvements along South Fork of Turkey Creek.	Brazos	08000005, 08000007	Project Planning	9	Riverine, Local	08003438	08003438	No	\$ 61,000
08-51-0000001021	Burton Creek Extension of Flood Study	Expansion of previous study to improve characterization of flood risk.	Brazos	08000005, 08000007	Watershed Planning	7	Riverine	08003438	08003438	No	\$ 71,000
08-51-0000001022	Thompson Creek Floodplain Study from RELLIS to HW 6 to Establish Floodway	Study of Thompson Creek to determine flood risk.	Brazos	08000005, 08000007	Watershed Planning	28	Riverine	08003438	08003438	No	\$ 164,000
08-51-0000001023	Study Wickson Creek for Floodplain/Floodway from FM 974 to Navasota River	Study of Wickerson Creek to determine flood risk.	Brazos	08000005, 08000007	Watershed Planning	88	Riverine	08003438	08003438	No	\$ 436,000
08-51-0000001027	Citywide FEMA Flood Study	City wide updates to floodplain mapping.	Brazos	08000005, 08000007	Watershed Planning	45	Riverine	08003438	08003438	No	\$ 241,000
08-51-0000001032	Brushy Creek Flood Study Extension	Expansion of previous study to improve characterization of flood risk.	Brazos	08000007	Watershed Planning	12	Riverine	08003438	08003438	No	\$ 92,000
08-51-0000001033	Philips Event Center Detention Pond at Hole 8 - Maintenance and Dredging	Maintenance on detention pond to increase storage.	Brazos	08000007	Project Planning	3	Riverine, Local	08003438	08003438	No	\$ 129,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001005	Lynndale Acres Ph 2: Old Hearne and McHaney Street	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		98	92	221	0	4	23	1	0
08-51-0000001009	Thompsons Branch & SH 6 Drainage Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		7	6	3	0	3	6	2	978
08-51-0000001015	Turkey Creek Drainage Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		14	14	22	0	0	9	0	19
08-51-0000001020	South For of Turkey Creek Improvements	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		14	14	22	0	0	9	0	19
08-51-0000001021	Burton Creek Extension of Flood Study	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		348	254	1,235	2	9	47	4	0
08-51-0000001022	Thompson Creek Floodplain Study from RELLIS to HW 6 to Establish Floodway	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		7	6	3	0	3	6	2	978
08-51-0000001023	Study Wickson Creek for Floodplain/Floodway from FM 974 to Navasota River	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		52	45	39	0	4	25	5	3,489
08-51-0000001027	Citywide FEMA Flood Study	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		1,120	870	2,013	3	36	94	37	4,194
08-51-0000001032	Brushy Creek Flood Study Extension	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		7	7	5	0	0	4	0	324
08-51-0000001033	Philips Event Center Detention Pond at Hole 8 - Maintenance and Dredging	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		100	93	191	0	5	15	2	7

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001035	Improve Undersized Storm Sewers in Briar Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	Brazos	08000007	Project Planning	3	Local	08003438	08003438	No	\$ 100,000
08-51-0000001036	Improve Undersized Storm Sewers in Burton Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	Brazos	08000005, 08000007	Project Planning	7	Local	08003438	08003438	No	\$ 300,000
08-51-0000001037	Improve Undersized Storm Sewers in Carter Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	Brazos	08000005, 08000007	Project Planning	12	Local	08003438	08003438	No	\$ 100,000
08-51-0000001038	Improve Undersized Storm Sewers in Hudson Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	Brazos	08000007	Project Planning	3	Local	08003438	08003438	No	\$ 100,000
08-51-0000001039	Improve Undersized Storm Sewers in Cottonwood Branch/Still Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	Brazos	08000005, 08000007	Project Planning	17	Local	08003438	08003438	No	\$ 100,000
08-51-0000001040	Improve Undersized Storm Sewers in Turkey Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	Brazos	08000005, 08000007	Project Planning	9	Local	08003438	08003438	No	\$ 100,000
08-51-0000001065	Carters Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Brazos	08000005, 08000007	Watershed Planning	58	Riverine	08003439	08003439	No	\$ 304,000
08-51-0000001066	Hope's Creek Flood Study	Study to determine flood risk across the watershed.	Brazos	08000005, 08000007	Watershed Planning	10	Riverine	08003439	08003439	No	\$ 158,000
08-51-0000001067	Peach Creek Flood Study	Study to determine flood risk across the watershed.	Brazos	08000005, 08000007	Watershed Planning	26	Riverine	08003439	08003439	No	\$ 84,000
08-51-0000001068	FBCDD Drop Structures - Condition Assessments & Upgrades	Create inventory of structures and condition, prioritize and design upgrades to structures as needed.	Fort Bend	08000013, 08000014	Preparedness	609	Riverine, Local	00000009	00000009, 00002044	No	\$ 2,712,000
08-51-0000001115	City of Killeen Early Flood Warning System	Development of an early flood warning system for Killeen including identification of potential gauge placements, development of software and GUI to monitor flood risk at gauged locations, and incorporation with the City's existing systems.	Bell	08000008, 08000009, 08000010	Preparedness	54	Riverine	08003530	08003530	No	\$ 100,000
08-51-0000001117	City of Cleburne Early Flood Warning System	Develop an early warning system for Buffalo and Meaner Creek which would remotely alert at the site when the water reaches a dangerous level.	Johnson	08000002	Preparedness	31	Riverine	08003010	08003010	No	\$ 100,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001035	Improve Undersized Storm Sewers in Briar Creek DB	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		100	93	191	0	5	15	2	7
08-51-0000001036	Improve Undersized Storm Sewers in Burton Creek DB	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		348	254	1,235	2	9	47	4	0
08-51-0000001037	Improve Undersized Storm Sewers in Carter Creek DB	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		190	158	491	1	6	48	5	184
08-51-0000001038	Improve Undersized Storm Sewers in Hudson Creek DB	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		26	21	86	0	0	3	0	12
08-51-0000001039	Improve Undersized Storm Sewers in Cottonwood Branch/Still Creek DB	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		254	166	581	0	12	51	5	292
08-51-0000001040	Improve Undersized Storm Sewers in Turkey Creek DB	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA		14	14	22	0	0	9	0	19
08-51-0000001065	Carters Creek	Local, TWDB FIF, FEMA FMA		849	646	2,564	8	43	152	17	1,275
08-51-0000001066	Hope's Creek Flood Study	Local, TWDB FIF, FEMA FMA		37	24	62	0	0	5	1	702
08-51-0000001067	Peach Creek Flood Study	Local, TWDB FIF, FEMA FMA		15	13	2	0	0	2	0	106
08-51-0000001068	FBCDD Drop Structures - Condition Assessments & Upgrades	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		14,277	11,612	26,966	28	2	1,167	300	95,254
08-51-0000001115	City of Killeen Early Flood Warning System	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		799	564	2,707	2	49	265	15	3,037
08-51-0000001117	City of Cleburne Early Flood Warning System	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		584	422	2,384	8	8	239	22	7,290

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General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001145	Dam 18 Rehabilitation	Improvements to ensure dam provides necessary protection against flood risk.	Williamson	08000012	Project Planning	11	Riverine	00000369	00000369	No	\$ 500,000
08-51-0000001146	Waller County Master Drainage Plan	Study to determine food risk and potential solutions throughout the county.	Waller	08000005, 08000013, 08000014	Watershed Planning	516	Riverine, Local	00000024	00000024	No	\$ 1,430,000
08-51-0000001148	Texas Ave Crossing & Channel Improvements (Hwy 6 to Texas) & Detenton Pond	Update design to account for Atlas 14 rainfall.	Brazos	08000005, 08000007	Project Planning	9	Riverine, Local	08003439	08003439	No	\$ 100,000
08-51-0000001153	Hwy 6 Crossing & DS Channel Improvements	Update design to account for Atlas 14 rainfall.	Brazos	08000007	Project Planning	2	Riverine, Local	08003439	08003439	No	\$ 100,000
08-51-0000001156	FM 2818 Crossing & Channel Improvements (FM- 2818 to Welsh) & Detention Pond	Update design to account for Atlas 14 rainfall.	Brazos	08000005, 08000007	Project Planning	5	Riverine, Local	08003439	08003439	No	\$ 100,000
08-51-0000001160	Berry Branch Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson, Milam	08000006, 08000012	Watershed Planning	56	Riverine, Local	00000043	00000043	No	\$ 591,000
08-51-0000001161	Big Creek Navasota DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Grimes, Brazos	08000005, 08000007	Watershed Planning	59	Riverine, Local	08000048	08000048	No	\$ 604,000
08-51-0000001162	Boggy Creek Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Travis, Williamson	08000012	Watershed Planning	60	Riverine, Local	00000043	00000043	No	\$ 607,000
08-51-0000001163	Brazoria DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Brazoria, Fort Bend	08000013, 08000014	Watershed Planning	608	Riverine, Local	00000003	00000003	No	\$ 1,526,000
08-51-0000001164	Lampasas Sulphur Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Burnet, Lampasas	08000010	Watershed Planning	66	Riverine, Local	00000064	00000064	No	\$ 629,000

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		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001145	Dam 18 Rehabilitation	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		11	5	10	0	1	8	2	1,105
08-51-0000001146	Waller County Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2,038	1,007	1,327	0	0	0	90	3
08-51-0000001148	Texas Ave Crossing & Channel Improvements (Hwy 6 to Texas) & Detention Pond	Local, TWDB FIF, FEMA FMA		69	50	85	1	9	19	2	75
08-51-0000001153	Hwy 6 Crossing & DS Channel Improvements	Local, TWDB FIF, FEMA FMA		26	26	86	1	0	2	2	12
08-51-0000001156	FM 2818 Crossing & Channel Improvements (FM- 2818 to Welsh) & Detention Pond	Local, TWDB FIF, FEMA FMA		22	19	45	1	9	7	1	33
08-51-0000001160	Berry Branch Brushy Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		41	21	27	1	8	36	10	7,744
08-51-0000001161	Big Creek Navasota DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		346	233	1,065	2	4	60	17	15,184
08-51-0000001162	Boggy Creek Brushy Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		143	118	141	0	6	25	8	8,636
08-51-0000001163	Brazoria DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		13,458	10,611	26,103	25	0	751	449	87,452
08-51-0000001164	Lampasas Sulphur Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		663	273	3,160	6	12	90	15	1,094

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General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001165	Thompson Branch-Davidson Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Burleson	08000005, 08000006	Watershed Planning	48	Riverine, Local	08000042	08000042	No	\$ 560,000
08-51-0000001166	Castleman Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan	08000002, 08000003, 08000005	Watershed Planning	28	Riverine, Local	08000138	08000138	No	\$ 454,000
08-51-0000001167	Cleburne-Buffalo Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Johnson	08000002	Watershed Planning	68	Riverine, Local	00000104	00000104	No	\$ 639,000
08-51-0000001168	Clifton DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Bosque	08000002, 08000004	Watershed Planning	41	Riverine, Local	08000158	08000158	No	\$ 528,000
08-51-0000001169	Copperas Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Brown, Comanche, Eastland	08000008	Watershed Planning	54	Riverine, Local	00000160	00000160	No	\$ 585,000
08-51-0000001170	Cottonwood Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan	08000002, 08000003	Watershed Planning	50	Riverine, Local	08000138	08000138	No	\$ 567,000
08-51-0000001171	Dry Berry Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000010, 08000012	Watershed Planning	38	Riverine, Local	00000043	00000043	No	\$ 509,000
08-51-0000001172	Flat Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan	08000002, 08000003	Watershed Planning	19	Riverine, Local	08000138	08000138	No	\$ 392,000
08-51-0000001173	Hogpen Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Falls, Limestone, McLennan	08000002, 08000005, 08000007	Watershed Planning	49	Riverine, Local	08000138	08000138	No	\$ 561,000

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001165	Thompson Branch-Davidson Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		129	61	320	5	1	34	6	2,118
08-51-0000001166	Castleman Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		160	132	504	1	1	30	4	1,854
08-51-0000001167	Cleburne-Buffalo Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		816	601	2,541	8	12	152	21	2,859
08-51-0000001168	Clifton DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		285	156	692	1	6	77	13	4,983
08-51-0000001169	Copperas Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		168	94	122	2	1	55	14	2,670
08-51-0000001170	Cottonwood Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,546	974	15,805	11	3	290	62	3,255
08-51-0000001171	Dry Berry Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		100	53	86	0	5	26	7	2,790
08-51-0000001172	Flat Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		201	114	1,789	3	1	41	6	886
08-51-0000001173	Hogpen Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		42	25	40	0	6	31	3	3,521

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001174	Comanche-Indian Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Comanche	08000008	Watershed Planning	55	Riverine, Local	00000160	00000160	No	\$ 587,000
08-51-0000001175	Lake Waco DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Coryell, McLennan	08000002, 08000003, 08000004, 08000005, 08000008	Watershed Planning	107	Riverine, Local	08000138	08000138	No	\$ 763,000
08-51-0000001176	Mustang Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000012	Watershed Planning	55	Riverine, Local	00000043	00000043	No	\$ 589,000
08-51-0000001177	Nash Creek-Leon DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Eastland	08000001, 08000008	Watershed Planning	58	Riverine, Local	00000167	00000167	No	\$ 601,000
08-51-0000001178	Eastland-Lake Leon DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Eastland	08000008	Watershed Planning	147	Riverine, Local	00000167	00000167	No	\$ 864,000
08-51-0000001179	Sandy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Grimes	08000005, 08000007	Watershed Planning	59	Riverine, Local	00000044	00000044	No	\$ 603,000
08-51-0000001180	South Nolan Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Bell, Coryell	08000008, 08000009, 08000010	Watershed Planning	92	Riverine, Local	08000060	08000060	No	\$ 718,000
08-51-0000001181	Tradinghouse Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Limestone, McLennan	08000002, 08000005, 08000007	Watershed Planning	39	Riverine, Local	08000138	08000138	No	\$ 516,000
08-51-0000001182	Turkey Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson, Milam	08000012	Watershed Planning	63	Riverine, Local	00000043	00000043	No	\$ 619,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001174	Comanche-Indian Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		237	148	367	1	4	64	9	3,167
08-51-0000001175	Lake Waco DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		387	212	575	1	8	108	55	6,807
08-51-0000001176	Mustang Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		111	71	199	0	13	51	7	4,157
08-51-0000001177	Nash Creek-Leon DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		8	0	2	0	3	26	8	2,361
08-51-0000001178	Eastland-Lake Leon DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		626	325	1,006	6	0	143	37	2,717
08-51-0000001179	Sandy Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		226	137	426	3	0	38	8	3,030
08-51-0000001180	South Nolan Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,237	740	5,003	7	60	208	30	1,514
08-51-0000001181	Tradinghouse Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		46	28	55	0	4	23	4	1,643
08-51-0000001182	Turkey Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		92	69	81	0	4	34	7	7,858

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001183	White Rock Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan	08000002, 08000003, 08000004	Watershed Planning	53	Riverine, Local	08000138	08000138	No	\$ 582,000
08-51-0000001184	Lake Graham-Salt Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Young	08000001	Watershed Planning	60	Riverine, Local	00000185	00000185	No	\$ 607,000
08-51-0000001185	Walnut Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Hood	08000001, 08000002	Watershed Planning	62	Riverine, Local	00000103	00000103	No	\$ 617,000
08-51-0000001186	Bee Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Hood, Parker	08000001	Watershed Planning	60	Riverine, Local	08000048	08000048	No	\$ 609,000
08-51-0000001187	Pollard Creek-Crystal Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Palo Pinto	08000001	Watershed Planning	55	Riverine, Local	08000121	08000121	No	\$ 586,000
08-51-0000001188	Middle Rock Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Palo Pinto, Parker	08000001	Watershed Planning	22	Local	00000122	00000122	No	\$ 419,000
08-51-0000001189	Rice Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan, Hill	08000002	Watershed Planning	29	Riverine	08000138	08000138	No	\$ 460,000
08-51-0000001190	Tehuacana Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Limestone, McLennan, Hill	08000002, 08000007	Watershed Planning	121	Riverine, Local	08000138	08000138	No	\$ 799,000
08-51-0000001191	Dry Creek-Aquilla Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan, Hill	08000002	Watershed Planning	67	Riverine, Local	08000138	08000138	No	\$ 636,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001183	White Rock Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		288	155	513	0	3	36	7	5,620
08-51-0000001184	Lake Graham-Salt Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		595	369	873	3	5	49	14	2,247
08-51-0000001185	Walnut Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		616	525	1,180	0	7	58	7	335
08-51-0000001186	Bee Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,220	976	2,076	1	1	104	26	3,868
08-51-0000001187	Pollard Creek-Crystal Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		398	242	1,541	4	1	147	18	1,800
08-51-0000001188	Middle Rock Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		71	7	575	2	1	39	4	679
08-51-0000001189	Rice Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		29	8	40	0	2	21	4	2,922
08-51-0000001190	Tehuacana Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		265	156	331	1	5	67	27	11,022
08-51-0000001191	Dry Creek-Aquilla Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		47	18	58	0	0	19	3	5,729

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001192	Eagle Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan	08000002, 08000004	Watershed Planning	26	Riverine, Local	08000138	08000138	No	\$ 443,000
08-51-0000001193	Manos Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	McLennan	08000002, 08000005	Watershed Planning	57	Riverine, Local	08000138	08000138	No	\$ 597,000
08-51-0000001194	Lower Hackberry Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Hill	08000002	Watershed Planning	66	Riverine, Local	00000161	00000161	No	\$ 630,000
08-51-0000001195	Cottonwood Creek-Aquilla Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Johnson, Hill	08000002	Watershed Planning	64	Riverine, Local	00000161	00000161	No	\$ 624,000
08-51-0000001196	Somervell-Paluxy River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Hood, Bosque, Somervell	08000002, 08000004	Watershed Planning	57	Riverine, Local	08000162	08000162	No	\$ 596,000
08-51-0000001197	Stanifer Branch-North Bosque River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Bosque	08000002, 08000004	Watershed Planning	50	Riverine, Local	08000158	08000158	No	\$ 569,000
08-51-0000001198	South Fork North Bosque River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Erath	08000001, 08000004, 08000008	Watershed Planning	50	Riverine, Local	08000169	08000169	No	\$ 567,000
08-51-0000001199	Indian Creek-North Bosque River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Erath	08000002, 08000004	Watershed Planning	49	Riverine	08000169	08000169	No	\$ 563,000
08-51-0000001200	Green Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Erath	08000004, 08000008	Watershed Planning	74	Riverine, Local	08000169	08000169	No	\$ 659,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001192	Eagle Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		228	158	328	0	2	9	1	1,998
08-51-0000001193	Manos Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		52	17	62	0	2	24	6	9,195
08-51-0000001194	Lower Hackberry Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		57	29	292	0	3	52	8	3,637
08-51-0000001195	Cottonwood Creek-Aquilla Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		47	19	44	0	1	19	4	2,347
08-51-0000001196	Somervell-Paluxy River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		219	97	1,221	10	14	55	10	935
08-51-0000001197	Stanifer Branch-North Bosque River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		110	50	184	2	0	36	6	4,235
08-51-0000001198	South Fork North Bosque River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		42	21	56	0	6	33	6	2,471
08-51-0000001199	Indian Creek-North Bosque River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		210	121	354	0	7	56	6	2,377
08-51-0000001200	Green Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		98	56	101	0	5	47	10	3,561

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001201	Bull Hide Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Falls, McLennan	08000002, 08000003, 08000005	Watershed Planning	36	Riverine, Local	08000138	08000138	No	\$ 500,000
08-51-0000001202	South Cow Bayou DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Falls, McLennan	08000003, 08000005, 08000008, 08000011	Watershed Planning	48	Riverine, Local	08000138	08000138	No	\$ 558,000
08-51-0000001203	North Cow Bayou DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Falls, McLennan	08000003, 08000005	Watershed Planning	37	Riverine, Local	08000138	08000138	No	\$ 507,000
08-51-0000001204	Big Sandy Creek-New Year Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Washington	08000005, 08000013	Watershed Planning	33	Riverine, Local	00000029	00000029	No	\$ 483,000
08-51-0000001205	Donahoe Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller, Washington	08000005, 08000013	Watershed Planning	58	Riverine, Local	00000024	00000024	No	\$ 600,000
08-51-0000001206	Lost Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Milam, Robertson	08000005, 08000011	Watershed Planning	61	Riverine, Local	08000063	08000063	No	\$ 611,000
08-51-0000001207	Bryan-Thompsons Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Brazos	08000005, 08000007	Watershed Planning	53	Riverine, Local	08003438	08003438	No	\$ 581,000
08-51-0000001208	Rocky Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller, Washington, Grimes	08000005, 08000007, 08000013	Watershed Planning	61	Riverine, Local	00000044	00000044	No	\$ 611,000
08-51-0000001209	Second Davidson Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Burleson	08000006	Watershed Planning	41	Riverine, Local	08000042	08000042	No	\$ 527,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001201	Bull Hide Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		15	9	14	0	3	21	3	1,857
08-51-0000001202	South Cow Bayou DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		14	11	11	0	0	13	2	1,509
08-51-0000001203	North Cow Bayou DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		37	22	35	0	1	20	3	1,433
08-51-0000001204	Big Sandy Creek-New Year Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		96	38	162	1	6	47	4	1,856
08-51-0000001205	Donahoe Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		41	5	22	0	0	9	11	12,819
08-51-0000001206	Lost Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		280	172	814	2	0	49	28	16,807
08-51-0000001207	Bryan-Thompsons Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		264	172	584	0	15	56	9	1,520
08-51-0000001208	Rocky Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		67	8	75	0	0	8	4	11,477
08-51-0000001209	Second Davidson Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		48	36	84	0	0	31	3	1,036

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001210	Holland Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Grimes	08000005, 08000007	Watershed Planning	42	Riverine, Local	00000044	00000044	No	\$ 533,000
08-51-0000001211	Bee Creek-Carters Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Brazos	08000005, 08000007	Watershed Planning	43	Riverine, Local	08000048	08000048	No	\$ 535,000
08-51-0000001212	Upper Resley Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Comanche, Erath	08000004, 08000008	Watershed Planning	49	Riverine, Local	08000169	08000169	No	\$ 565,000
08-51-0000001213	Hamilton-Pecan Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Hamilton	08000008, 08000009	Watershed Planning	30	Riverine, Local	08000140	08000140	No	\$ 465,000
08-51-0000001214	Pepper Creek-Leon River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Bell	08000008, 08000011	Watershed Planning	47	Riverine, Local	08000060	08000060	No	\$ 553,000
08-51-0000001215	Cottonwood Creek-Leon River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Coryell	08000008, 08000009	Watershed Planning	64	Riverine, Local	08000133	08000133	No	\$ 623,000
08-51-0000001216	Little Elm Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Bell	08000008, 08000011	Watershed Planning	35	Riverine, Local	08000060	08000060	No	\$ 498,000
08-51-0000001217	Camp Creek-Big Elm Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Milam, Bell, Falls	08000005, 08000011	Watershed Planning	59	Riverine, Local	08000060	08000060	No	\$ 603,000
08-51-0000001218	Upper Donahoe Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson, Bell	08000010, 08000011, 08000012	Watershed Planning	45	Riverine, Local	00000043	00000043	No	\$ 547,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001210	Holland Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		7	2	9	0	5	11	3	2,564
08-51-0000001211	Bee Creek-Carters Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		831	630	2,968	4	43	148	16	591
08-51-0000001212	Upper Resley Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		53	26	52	0	9	56	7	2,247
08-51-0000001213	Hamilton-Pecan Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		104	39	410	1	9	55	5	761
08-51-0000001214	Pepper Creek-Leon River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		234	132	703	1	4	51	4	889
08-51-0000001215	Cottonwood Creek-Leon River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		101	54	226	0	4	39	6	2,819
08-51-0000001216	Little Elm Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		171	85	1,015	1	7	63	7	1,732
08-51-0000001217	Camp Creek-Big Elm Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		48	5	39	0	4	29	8	6,617
08-51-0000001218	Upper Donahoe Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		14	7	10	0	9	15	4	2,171

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001219	Mileham Branch-San Gabriel River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000012	Watershed Planning	39	Riverine, Local	00000043	00000043	No	\$ 516,000
08-51-0000001220	Opossum Creek-Willis Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000010, 08000011, 08000012	Watershed Planning	56	Riverine, Local	00000043	00000043	No	\$ 591,000
08-51-0000001221	Pecan Branch-San Gabriel River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000012	Watershed Planning	30	Riverine, Local	00000043	00000043	No	\$ 466,000
08-51-0000001222	Granger Lake DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000011, 08000012	Watershed Planning	54	Riverine, Local	00000043	00000043	No	\$ 583,000
08-51-0000001223	Upper Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Travis, Williamson	08000012	Watershed Planning	185	Riverine, Local	00000043	00000043	No	\$ 946,000
08-51-0000001224	Smith Branch-San Gabriel River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000012	Watershed Planning	22	Riverine, Local	00000043	00000043	No	\$ 413,000
08-51-0000001225	Lower Berry Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Williamson	08000010, 08000012	Watershed Planning	49	Riverine, Local	00000043	00000043	No	\$ 565,000
08-51-0000001226	Lower Allens Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin	08000013	Watershed Planning	34	Riverine, Local	00000018	00000018	No	\$ 491,000
08-51-0000001227	Upper Allens Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin	08000013	Watershed Planning	34	Riverine, Local	00000018	00000018	No	\$ 489,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001219	Mileham Branch-San Gabriel River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		401	314	610	0	8	67	15	3,411
08-51-0000001220	Opossum Creek-Willis Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		197	141	151	0	10	43	10	4,793
08-51-0000001221	Pecan Branch-San Gabriel River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		174	115	196	0	3	21	7	5,640
08-51-0000001222	Granger Lake DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		118	84	152	1	5	27	8	4,460
08-51-0000001223	Upper Brushy Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		993	792	2,875	3	47	203	29	3,184
08-51-0000001224	Smith Branch-San Gabriel River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		193	152	490	0	3	55	9	637
08-51-0000001225	Lower Berry Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		68	64	166	0	5	24	5	865
08-51-0000001226	Lower Allens Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		106	65	136	0	0	10	7	5,670
08-51-0000001227	Upper Allens Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		382	256	725	2	0	32	13	2,250

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001228	Ponds Creek-Clear Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller	08000005, 08000013	Watershed Planning	47	Riverine, Local	00000024	00000024	No	\$ 554,000
08-51-0000001229	Threemile Creek-Clear Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller	08000013	Watershed Planning	29	Riverine, Local	00000024	00000024	No	\$ 459,000
08-51-0000001230	Hempstead-Blasingame Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin, Waller	08000013	Watershed Planning	28	Riverine, Local	00000024	00000024	No	\$ 456,000
08-51-0000001231	Ives Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin, Waller	08000013	Watershed Planning	44	Riverine, Local	00000018	00000018	No	\$ 540,000
08-51-0000001232	Sandy Creek-Mill Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin	08000013	Watershed Planning	56	Riverine, Local	00000018	00000018	No	\$ 593,000
08-51-0000001233	Deadman Creek-Mill Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin, Waller	08000013	Watershed Planning	53	Riverine	00000018	00000018	No	\$ 578,000
08-51-0000001234	Harris Creek-Irons Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller	08000013	Watershed Planning	31	Riverine, Local	00000024	00000024	No	\$ 473,000
08-51-0000001235	Mulberry Creek-Irons Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller	08000013	Watershed Planning	24	Riverine, Local	00000024	00000024	No	\$ 430,000
08-51-0000001236	Bessies Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller	08000013	Watershed Planning	53	Riverine, Local	00000024	00000024	No	\$ 578,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001228	Ponds Creek-Clear Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		66	50	68	0	1	26	4	438
08-51-0000001229	Threemile Creek-Clear Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		227	71	146	0	2	43	7	2,523
08-51-0000001230	Hempstead-Blasingame Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		68	44	50	0	1	30	2	3,423
08-51-0000001231	Ives Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		255	88	86	0	0	21	12	9,796
08-51-0000001232	Sandy Creek-Mill Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		149	90	519	1	3	56	9	4,376
08-51-0000001233	Deadman Creek-Mill Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		321	171	95	0	0	26	19	10,181
08-51-0000001234	Harris Creek-Irons Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		126	58	72	0	0	23	9	7,417
08-51-0000001235	Mulberry Creek-Irons Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		213	100	72	0	1	16	6	5,976
08-51-0000001236	Bessies Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		343	186	198	0	8	22	11	6,110

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001237	Bullinger Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin, Waller	08000013	Watershed Planning	28	Riverine	08003423	08003423	No	\$ 458,000
08-51-0000001238	Cannons Lake-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Austin, Waller	08000013	Watershed Planning	23	Riverine, Local	00000018	00000018	No	\$ 421,000
08-51-0000001239	Brookshire DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Waller	08000013, 08000014	Watershed Planning	26	Riverine, Local	00000024	00000024	No	\$ 442,000
08-51-0000001240	Dry Brushy Creek-Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	Bastrop, Travis, Williamson	08000006, 08000012	Watershed Planning	44	Riverine, Local	00000043	00000043	No	\$ 538,000
08-51-0000001241	Lake Proctor	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Stephens, Brown, Comanche, Callahan, Eastland, Erath	08000001, 08000004, 08000008	Watershed Planning	1,021	Riverine	00000160	00000160	No	\$ 4,477,000
08-51-0000001242	Middle Bosque River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Coryell, McLennan, Bosque	08000003, 08000008	Watershed Planning	198	Riverine	08000138	08000138	No	\$ 928,000
08-51-0000001243	Hog Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Coryell, McLennan, Hamilton, Bosque	08000003, 08000004, 08000008	Watershed Planning	90	Riverine	08000138	08000138	No	\$ 446,000
08-51-0000001244	North Bosque River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Coryell, McLennan, Hamilton, Bosque, Somervell, Erath	08000001, 08000002, 08000003, 08000004, 08000008	Watershed Planning	1,238	Riverine	08000158	08000158	No	\$ 5,405,000
08-51-0000001245	Aquilla Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Johnson, McLennan, Hill	08000002	Watershed Planning	409	Riverine, Local	00000161	00000161	No	\$ 1,846,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001237	Bullinger Creek-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		307	179	353	0	1	38	13	4,316
08-51-0000001238	Cannons Lake-Brazos River DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		597	344	301	0	0	23	29	7,109
08-51-0000001239	Brookshire DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		423	216	683	0	1	40	9	2,128
08-51-0000001240	Dry Brushy Creek-Brushy Creek DMP	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		41	33	29	0	3	24	6	5,162
08-51-0000001241	Lake Proctor	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		654	261	768	6	16	436	149	46,579
08-51-0000001242	Middle Bosque River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		154	74	199	0	4	78	12	16,003
08-51-0000001243	Hog Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		99	29	104	0	6	43	10	7,391
08-51-0000001244	North Bosque River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,426	686	1,790	7	45	538	147	69,770
08-51-0000001245	Aquilla Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		204	88	374	0	7	178	33	20,746

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001246	Keechi Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Palo Pinto, Parker, Jack	08000001	Watershed Planning	265	Riverine	00000253	00000253	No	\$ 1,221,000
08-51-0000001247	Possum Kingdom Lake	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Stephens, Palo Pinto, Young, Archer, Jack	08000001, 08000008	Watershed Planning	923	Riverine	00000185	00000185	No	\$ 4,059,000
08-51-0000001248	Palo Pinto Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Stephens, Palo Pinto, Eastland, Erath	08000001, 08000002, 08000004, 08000008	Watershed Planning	635	Riverine	08000121	08000121	No	\$ 2,826,000
08-51-0000001249	Lake Granbury	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Hood, Stephens, Palo Pinto, Parker, Erath, Jack	08000001, 08000002	Watershed Planning	1,179	Riverine	08000121	08000121	No	\$ 5,152,000
08-51-0000001250	Navasota River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Grimes, Brazos, Madison, Robertson, Leon, Limestone, Freestone, Hill	08000002, 08000005, 08000007	Watershed Planning	2,237	Riverine, Local	08000048	08000048	No	\$ 9,620,000
08-51-0000001251	Mill Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Austin, Fayette, Washington	08000005, 08000006, 08000013	Watershed Planning	370	Riverine	00000018	00000018	No	\$ 1,677,000
08-51-0000001252	Lampasas River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Williamson, Burnet, Bell, Lampasas, Coryell, Mills, Hamilton	08000008, 08000009, 08000010, 08000012	Watershed Planning	1,307	Riverine, Local	00000064	00000064	No	\$ 5,697,000
08-51-0000001253	Cowhouse Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Bell, Lampasas, Coryell, Mills, Hamilton, Comanche	08000008, 08000009, 08000010	Watershed Planning	724	Riverine, Local	08000133	08000133	No	\$ 3,210,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001246	Keechi Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		105	37	56	0	2	53	16	7,364
08-51-0000001247	Possum Kingdom Lake	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,669	969	1,322	4	7	247	76	34,912
08-51-0000001248	Palo Pinto Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,014	386	686	4	13	217	115	25,160
08-51-0000001249	Lake Granbury	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		3,876	2,488	5,724	9	36	709	150	49,241
08-51-0000001250	Navasota River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		3,354	2,058	4,952	6	92	634	146	104,322
08-51-0000001251	Mill Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		317	177	861	2	13	223	54	24,202
08-51-0000001252	Lampasas River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,050	445	3,297	6	60	319	49	16,657
08-51-0000001253	Cowhouse Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		632	418	5,398	2	7	366	82	21,601

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001254	Brushy Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Bastrop, Travis, Williamson, Milam	08000006, 08000011, 08000012	Watershed Planning	518	Riverine	00000043	00000043	No	\$ 2,319,000
08-51-0000001255	Lake Leon	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Callahan, Eastland	08000008	Watershed Planning	257	Riverine	00000167	00000167	No	\$ 1,186,000
08-51-0000001256	Leon River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Bell, Coryell, Mills, McLennan, Hamilton, Comanche, Erath	08000003, 08000004, 08000005, 08000008, 08000009, 08000011	Watershed Planning	1,553	Riverine, Local	08000133	08000133	No	\$ 6,740,000
08-51-0000001257	Lake Whitney	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Hood, Johnson, Parker, Bosque, Hill, Somervell	08000001, 08000002, 08000004	Watershed Planning	676	Riverine	08000158	08000158	No	\$ 3,004,000
08-51-0000001258	Paluxy River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Hood, Bosque, Somervell, Erath	08000001, 08000002, 08000004	Watershed Planning	508	Riverine	08000169	08000169	No	\$ 2,277,000
08-51-0000001259	Nolan River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Johnson, Hill	08000001, 08000002	Watershed Planning	319	Riverine, Coastal, Local	00000104	00000104	No	\$ 1,456,000
08-51-0000001260	Big Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Falls, Limestone, McLennan	08000002, 08000005, 08000007	Watershed Planning	311	Riverine	08000123	08000123	No	\$ 1,419,000
08-51-0000001261	Pond Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Milam, Bell, Falls	08000005, 08000011	Watershed Planning	228	Riverine	08000123	08000123	No	\$ 1,059,000
08-51-0000001262	Bull Hide Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Falls, McLennan	08000002, 08000003, 08000005	Watershed Planning	36	Riverine	08000138	08000138	No	\$ 202,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001254	Brushy Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,451	1,115	3,372	4	81	362	78	42,040
08-51-0000001255	Lake Leon	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		658	333	1,013	6	0	179	50	4,532
08-51-0000001256	Leon River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,101	545	1,586	5	62	517	169	84,539
08-51-0000001257	Lake Whitney	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		799	462	932	1	12	234	84	22,846
08-51-0000001258	Paluxy River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		374	188	1,367	10	35	115	24	8,902
08-51-0000001259	Nolan River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,123	789	2,719	10	16	262	55	15,288
08-51-0000001260	Big Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		86	38	55	0	18	96	21	28,197
08-51-0000001261	Pond Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		43	7	29	0	8	65	12	18,006
08-51-0000001262	Bull Hide Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		15	9	14	0	3	21	3	1,857

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001263	Cow Bayou	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Falls, McLennan	08000003, 08000005, 08000008, 08000011	Watershed Planning	115	Riverine	08000138	08000138	No	\$ 558,000
08-51-0000001264	Deer Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Bell, Falls, McLennan	08000005, 08000011	Watershed Planning	115	Riverine	08000123	08000123	No	\$ 557,000
08-51-0000001265	Middle Brazos DS Lake Whitney	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Falls, McLennan, Bosque, Hill	08000002, 08000003, 08000004, 08000005	Watershed Planning	526	Riverine	08000138	08000138	No	\$ 2,357,000
08-51-0000001266	Lower Brazos-Little Brazos	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Waller, Washington, Burleson, Grimes, Brazos, Milam, Robertson, Falls, Limestone	08000005, 08000006, 08000007, 08000011, 08000013	Watershed Planning	1,771	Riverine, Local	08000063	08000063	No	\$ 7,659,000
08-51-0000001267	San Gabriel River DS Granger Lake	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Williamson, Milam, Bell	08000011, 08000012	Watershed Planning	117	Riverine	08000054	08000054	No	\$ 567,000
08-51-0000001268	San Gabriel River US Granger Lake	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Travis, Williamson, Burnet	08000010, 08000011, 08000012	Watershed Planning	726	Riverine	00000043	00000043	No	\$ 3,219,000
08-51-0000001269	Salado Creek-Lampasas River (Little River)	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Williamson, Bell	08000008, 08000010, 08000011, 08000012	Watershed Planning	199	Riverine	08000060	08000060	No	\$ 929,000
08-51-0000001270	Nolan Creek-Leon River (Little River)	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Bell, Coryell	08000008, 08000009, 08000010, 08000011	Watershed Planning	177	Riverine	08000060	08000060	No	\$ 835,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001263	Cow Bayou	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		56	34	50	0	1	39	7	7,509
08-51-0000001264	Deer Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		8	4	8	0	12	40	7	5,501
08-51-0000001265	Middle Brazos DS Lake Whitney	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2,670	1,653	18,044	15	17	495	108	52,348
08-51-0000001266	Lower Brazos-Little Brazos	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,830	867	3,030	9	37	495	246	234,255
08-51-0000001267	San Gabriel River DS Granger Lake	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		115	72	112	0	9	45	16	15,123
08-51-0000001268	San Gabriel River US Granger Lake	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2,192	1,692	4,248	1	83	393	109	31,497
08-51-0000001269	Salado Creek-Lampasas River (Little River)	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		461	291	655	2	26	103	23	5,268
08-51-0000001270	Nolan Creek-Leon River (Little River)	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,559	927	5,854	8	66	277	37	5,083

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001271	Little River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Williamson, Milam, Bell, Falls	08000005, 08000006, 08000008, 08000010, 08000011, 08000012	Watershed Planning	677	Riverine	08000054	08000054	No	\$ 3,006,000
08-51-0000001272	Big Elm Creek	Upgrade drainage channels within the city to reduce flooding to residential and commercial structures.	Milam, Bell, Falls, McLennan	08000005, 08000008, 08000011	Watershed Planning	322	Riverine, Local	08000060	08000060	No	\$ 1,470,000
08-51-0000001273	Davidson-Yegua	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Washington, Burleson, Brazos, Milam	08000005, 08000006, 08000011	Watershed Planning	312	Riverine, Local	08000042	08000042	No	\$ 1,426,000
08-51-0000001274	Yegua-Lake Somerville	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Fayette, Bastrop, Washington, Lee, Burleson, Williamson, Milam	08000005, 08000006, 08000011, 08000012, 08000013	Watershed Planning	1,004	Riverine	00000032	00000032	No	\$ 4,407,000
08-51-0000001275	Brazos River Tributaries DS Hempstead	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Fort Bend, Austin, Waller, Washington	08000005, 08000013, 08000014	Watershed Planning	603	Riverine	00000024	00000024	No	\$ 2,688,000
08-51-0000001276	Carters Creek	Study to determine flood risk across the watershed.	Brazos	08000005, 08000007	Watershed Planning	58	Riverine	08003439	08003439	No	\$ 304,000
08-51-0000001277	Peach Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Brazos	08000005, 08000007	Watershed Planning	26	Local	08003439	08003439	No	\$ 158,000
08-51-0000001278	Hopes Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Brazos	08000005, 08000007	Watershed Planning	10	Riverine	08003439	08003439	No	\$ 84,000
08-51-0000001279	Lick Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Brazos	08000005, 08000007	Watershed Planning	17	Riverine	08003439	08003439	No	\$ 117,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001271	Little River	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		352	120	520	1	32	184	50	69,618
08-51-0000001272	Big Elm Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		337	123	1,089	1	23	156	38	23,045
08-51-0000001273	Davidson-Yegua	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		273	150	437	5	3	130	25	19,146
08-51-0000001274	Yegua-Lake Somerville	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		579	278	447	1	49	233	80	31,804
08-51-0000001275	Brazos River Tributaries DS Hempstead	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		4,658	2,740	3,800	3	17	425	200	88,010
08-51-0000001276	Carters Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		849	646	2,974	8	43	152	17	1,275
08-51-0000001277	Peach Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		37	24	59	0	0	5	1	702
08-51-0000001278	Hopes Creek	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		15	13	2	0	0	2	0	106
08-51-0000001279	Lick Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		56	50	117	0	2	20	2	278

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General Metrics											
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08-51-0000001280	Angleton Levee	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Fort Bend	08000014	Preparedness	29	Riverine	00001801	00001801	No	\$ 307,000
08-51-0000001281	Fort Bend County LIDs Internal Flood Study	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Fort Bend	08000013, 08000014	Preparedness	59	Riverine, Local	00000009	00000009	No	\$ 170,000
08-51-0000001282	Velasco Levee	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	Brazoria	08000013, 08000014	Preparedness	43	Riverine	08000579	08000579	No	\$ 232,000
08-51-0000001283	Fort Bend County Levee Vulnerability Study	Evaluate the critical impacts and vulnerability of Fort Bend County levees. Create a prioritization of potential projects and strategies to mitigate risk, and develop protocols for failure events.	Fort Bend	08000013, 08000014	Preparedness	59	Riverine	00000009	00000009	No	\$ 307,000
08-51-0000001284	Webster-Mary Connector	Relief connector between Webster and Mary.	McLennan	08000002	Project Planning	3	Riverine, Local	08002914	08002914	No	\$ 300,000
08-51-0000001285	Oakwood Channel & Bridge Improvements	Widening of Primrose Creek to increase flow capacity, as well as removal and replacement of several crossings along the channel improvements.	McLennan	08000002	Project Planning	4	Riverine, Local	08002914	08002914	No	\$ 300,000
08-51-0000001286	Taylor / Elm Storm Infrastructure & Outfall	Extension of current storm infrastructure in the area to improve drainage. Potential, Levee along MLK Boulevard to direct flow and prohibit road overtopping.	McLennan	08000197	Project Planning	2	Local	08002914	08002914	No	\$ 917,000
08-51-0000001287	Cross Creek Road Low Water Crossing Removal	Removal of the Cross Creek Road low water crossing and associated 18" culverts. Extension of Stone Creek Ridge Drive to maintain access to existing properties.	McLennan	08000008	Project Planning	25	Riverine	08002914	08002914	No	\$ 200,000
08-51-0000001298	Nolanville Drainage Master Plan	Atlas 14 H&H modeling and CIP development. Focus on developing BCAs and prioritization plan.	Bell	08000008, 08000075, 08000500	Project Planning	4	Riverine	08002883	08002883	No	\$ 200,000

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		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001280	Angleton Levee	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		0	0	0	0	0	0	0	3
08-51-0000001281	Fort Bend County LIDs Internal Flood Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		621	573	1,347	6	0	95	14	107
08-51-0000001282	Velasco Levee	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		582	444	0	2	0	61	16	40
08-51-0000001283	Fort Bend County Levee Vulnerability Study	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		621	573	0	6	0	95	14	107
08-51-0000001284	Webster-Mary Connector	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		76	27	1,723	1	0	0	20	1
08-51-0000001285	Oakwood Channel & Bridge Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		39	28	505	0	0	0	6	34
08-51-0000001286	Taylor / Elm Storm Infrastructure & Outfall	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		69	47	705	1	0	0	7	15
08-51-0000001287	Cross Creek Road Low Water Crossing Removal	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		13	9	37	0	1	0	1	18
08-51-0000001298	Nolanville Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		96	48	125	1	3	50	7	610

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General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001299	Cedar Park Drainage Master Plan	Atlas 14 H&H modeling and CIP development. Focus on developing BCAs and prioritization plan.	Williamson	08000012, 08000090, 08000586, 08000596	Project Planning	26	Riverine, Local	00003454	00003454	No	\$ 500,000
08-51-0000001300	City of Stephenville FEWS	Assessment of the most beneficial gauge placements and development of data interface.	Erath	08000004, 08000039, 08000258, 08000259,	Preparedness	12	Riverine, Local	08002906	08002906	No	\$ 100,000
08-51-0000001301	City of Waco FEWS	Assessment of the most beneficial gauge placements and development of data interface.	McLennan	Full list of watersheds provided in GDB	Preparedness	101	Riverine, Local	08002914	08002914	No	\$ 100,000
08-51-0000001302	City of Georgetown FEWS	Assessment of the most beneficial gauge placements and development of data interface.	Williamson	Full list of watersheds provided in GDB	Preparedness	59	Riverine, Local	08002580	08002580	No	\$ 100,000
08-51-0000001303	Brazos River Flood Protection Plan Update	Update to previously completed Brazos FPP to incorporate latest modeling and data and create comprehensive analysis for the Brazos River.	Archer, Austin, Bastrop, Bell, Bosque, Brazoria, Brazos		Watershed Planning	9,914	Riverine, Coastal, Local	00000003,00000009,00000024	00000003, 00000009, 00000024	No	\$ 500,000
08-51-0000001304	City of Clifton Master Drainage Plan	Update hydrologic modeling for the Bosque Creek watershed to utilize Atlas 14 rainfall and latest land use. Update hydraulic modeling to incorporate more detail and latest data. Identify existing flood risk and develop potential mitigation solutions.	Bosque	08000002, 08000004	Watershed Planning	41	Riverine	08002783	08002783	No	\$ 150,000
08-51-0000001305	Glen Rose Master Drainage Plan	Study to update hydrology of HUC-12 watersheds to utilize Atlas 14 rainfall, update 12.9 miles of detailed hydraulic models, identify and assess flood risks city-wide and develop and prioritize potential flood mitigation solutions.	Hood, Bosque, Somervell	08000001, 08000002, 08000004	Watershed Planning	132	Riverine	08002788	08002788	No	\$ 300,000
08-51-0000001306	City of Hewitt Master Drainage Plan	Study to update hydrology of HUC-12 watersheds to utilize Atlas 14 rainfall, update 8.44 miles of detailed study hydraulic models, identify and assess flood risks city-wide and develop and prioritize potential flood mitigation solutions.	Falls, McLennan	08000002, 08000003, 08000005	Watershed Planning	82	Riverine	08003256	08003256, 08000138	No	\$ 300,000

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		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001299	Cedar Park Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		269	230	819	0	12	130	5	399
08-51-0000001300	City of Stephenville FEWS	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		151	92	324	0	9	85	5	4,305
08-51-0000001301	City of Waco FEWS	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,282	754	15,824	8	3	1,368	88	18,445
08-51-0000001302	City of Georgetown FEWS	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		173	122	1,521	0	6	294	19	7,804
08-51-0000001303	Brazos River Flood Protection Plan Update	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		35,864	24,887	67,805	91	477	15,072	1,583	947,725
08-51-0000001304	City of Clifton Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		285	156	692	1	6	77	13	1,871
08-51-0000001305	Glen Rose Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		316	147	1,337	10	18	74	14	123
08-51-0000001306	City of Hewitt Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		376	255	1,967	5	5	82	13	2,022

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001307	City of Robinson Master Drainage Plan	Study to update hydrology of HUC-12 watersheds to utilize Atlas 14 rainfall, update 51.9 miles of detailed study hydraulic models, identify and assess flood risks city-wide and develop and prioritize potential flood mitigation solutions.	Falls, McLennan	08000002, 08000003, 08000005	Watershed Planning	190	Riverine	08002736	08002736, 08000138	No	\$ 400,000
08-51-0000001308	City of West Master Drainage Plan	Study to update hydrology of HUC-12 watersheds to utilize Atlas 14 rainfall, update 1.42 miles of detailed study hydraulic models, identify and assess flood risks city-wide and develop and prioritize potential flood mitigation solutions.	McLennan, Hill	08000002	Watershed Planning	100	Riverine	08003303	08003303	No	\$ 150,000
08-51-0000001309	Barron's Branch Creek Improvements	Assessment and design of Barron's Branch creek upstream of proposed downtown Waco master development. Design will propose solutions to address flooding and erosion, as well as propose green infrastructure options for this urban creek.	McLennan	08000002, 08000003	Project Planning	50	Riverine	08002914	08002914	No	\$ 300,000
08-51-0000001310	City of Lacy Lakeview Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	McLennan	08000002, 08000003, 08000004	Watershed Planning	146	Riverine	08003297	08003297	No	\$ 300,000
08-51-0000001311	City of Hillsboro Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	Hill	08000002	Watershed Planning	66	Riverine	08003366	08003366	No	\$ 300,000
08-51-0000001312	City of Gholson Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	McLennan, Bosque, Hill	08000002, 08000004	Watershed Planning	155	Riverine	08003255	08003255	No	\$ 250,000
08-51-0000001313	City of Marlin Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	Falls	08000005	Watershed Planning	99	Riverine	08003039	08003039	No	\$ 250,000

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001307	City of Robinson Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,972	1,245	17,784	16	10	383	81	9,960
08-51-0000001308	City of West Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		51	16	59	0	3	53	9	4,013
08-51-0000001309	Barron's Branch Creek Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,546	974	15,805	11	3	290	62	1,858
08-51-0000001310	City of Lacy Lakeview Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,964	1,207	16,154	12	9	357	81	5,667
08-51-0000001311	City of Hillsboro Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		57	29	292	0	3	52	8	1,232
08-51-0000001312	City of Gholson Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		370	241	473	0	2	38	6	4,038
08-51-0000001313	City of Marlin Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		43	10	53	0	1	43	13	14,073

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001314	City of Mart Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	Falls, Limestone, McLennan	08000002, 08000005	Watershed Planning	49	Riverine	08002477	08002477	No	\$ 250,000
08-51-0000001315	Village of Salado Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	Bell	08000010, 08000011	Watershed Planning	73	Riverine	08002431	08002431	No	\$ 250,000
08-51-0000001316	Morgan's Point Resort Master Drainage Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	Bell, Coryell	08000008, 08000009, 08000011	Watershed Planning	87	Riverine	08003531	08003531	No	\$ 500,000
08-51-0000001317	City of Troy Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	Bell, McLennan	08000005, 08000008, 08000011	Watershed Planning	51	Riverine	08003527	08003527	No	\$ 250,000
08-51-0000001318	College Station Master Drainage Plan	Master drainage plan for the entire City including hydrologic and hydraulic modeling, pluvial and fluvial flood risk assessment, flood risk mapping, and flood mitigation project development.	Burleson, Grimes, Brazos	08000005, 08000006, 08000007	Watershed Planning	253	Riverine	08003439	08003439	No	\$ 820,000
08-51-0000001319	McGregor Executive Airport Master Drainage Plan	Create a Master Drainage Plan for the airport property. This will provide options to the City of McGregor and the City of Waco for decreasing airport property runoff to reduce flooding in adjacent Waco neighborhoods.	Coryell, McLennan	08000002, 08000003, 08000005, 08000008	Watershed Planning	86	Riverine	08002914	08002914	No	\$ 200,000
08-51-0000001320	East Brazos County Master Drainage Plan	Master drainage plan (including hydrologic and hydraulic modeling, flood risk assessment, and flood mitigation project development) for several watersheds throughout the eastern portion of Brazos County including areas of known high flood risk.	Grimes, Brazos, Madison, Robertson	08000005, 08000007	Watershed Planning	515	Riverine	08000048	08000048	No	\$ 1,430,000
08-51-0000001321	City of Bryan Stormwater Master Plan Update	Update the existing master drainage plan to use the latest data (including atlas 14 rainfall) and re-assess flood risk and flood mitigation projects.	Burleson, Brazos, Robertson	08000005, 08000006, 08000007	Watershed Planning	264	Riverine	08003438	08003438	No	\$ 500,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001314	City of Mart Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		42	25	40	0	6	31	3	1,183
08-51-0000001315	Village of Salado Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		315	200	507	1	17	62	8	476
08-51-0000001316	Morgan's Point Resort Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		36	8	23	0	3	26	14	408
08-51-0000001317	City of Troy Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		58	26	66	0	4	26	5	650
08-51-0000001318	College Station Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,104	792	3,345	4	45	206	48	20,877
08-51-0000001319	McGregor Executive Airport Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		187	106	360	1	4	74	15	2,419
08-51-0000001320	East Brazos County Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		616	450	1,236	2	10	153	44	9,112
08-51-0000001321	City of Bryan Stormwater Master Plan Update	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,343	928	3,818	4	58	249	66	25,877

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001322	City of Snook Master Drainage Plan	Perform a master drainage plan for the City of Snook including, but not limited to, developing hydrologic and hydraulic modeling, identifying areas of high flood risk, developing conceptual alternatives, and ranking the identified projects.	Burleson, Brazos	08000005, 08000006, 08000007	Watershed Planning	150	Riverine	08003471	08000042, 08003471	No	\$ 250,000
08-51-0000001323	North Front Crossing Culvert Improvements at Town Branch	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for larger culverts to replace existing pipe culverts at the North Front Street crossing of Town Branch.	Williamson, Bell	08000010, 08000011	Project Planning	26	Riverine	08003524	08003524	No	\$ 15,000
08-51-0000001324	TX 95 Crossing Channel Improvements at Town Branch	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for channel grading and rehabilitation of Town Branch downstream of the TX 95 crossing.	Williamson, Bell	08000010, 08000011	Project Planning	26	Riverine	08003524	08003524	No	\$ 30,000
08-51-0000001325	West Clark Street and West Front Street Storm Sewer Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for a network of inlets & pipes along West Clark Street & West Front Street.	Williamson, Bell	08000010, 08000011, 08000012	Project Planning	45	Riverine	08003524	08003524	No	\$ 15,000
08-51-0000001326	West Bartlett Drainage Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for increasing the capacity of culverts and ditches west of the railroad.	Williamson, Bell	08000010, 08000011, 08000012	Project Planning	72	Riverine	08003524	08003524	No	\$ 35,000
08-51-0000001327	East Bartlett Drainage Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for increasing the capacity of culverts and ditches east of the railroad.	Williamson, Bell	08000010, 08000011, 08000012	Project Planning	72	Riverine	08003524	08003524	No	\$ 40,000
08-51-0000001328	Bell Street and Front Street Drainage Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for increasing the capacity culverts and ditches near Bell Street and Front Street .	Williamson, Bell	08000010, 08000011, 08000012	Project Planning	72	Riverine	08003524	08003524	No	\$ 75,000
08-51-0000001329	City of Marlin Preliminary Design for Service Spillway Replacements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for City of Marlin Old and New City Lake Dam spillway replacement.	Falls	08000005	Project Planning	38	Riverine	08003039	08003039	No	\$ 560,000
08-51-0000001330	City of Mart Dam Rehabilitation Study	Detailed Description: Design up to 30% of dam rehabilitation.	Limestone, McLennan	08000002, 08000005, 08000007	Project Planning	39	Riverine	08002477	08002477	No	\$ 250,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001322	City of Snook Master Drainage Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		168	65	262	0	0	41	27	21,822
08-51-0000001323	North Front Crossing Culvert Improvements at Town Branch	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		17	2	30	0	1	12	1	317
08-51-0000001324	TX 95 Crossing Channel Improvements at Town Branch	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		17	2	30	0	1	12	1	317
08-51-0000001325	West Clark Street and West Front Street Storm Sewer Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		14	7	10	0	9	15	4	873
08-51-0000001326	West Bartlett Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		31	9	40	0	10	26	5	1,190
08-51-0000001327	East Bartlett Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		31	9	40	0	10	26	5	1,190
08-51-0000001328	Bell Street and Front Street Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		31	9	40	0	10	26	5	1,190
08-51-0000001329	City of Marlin Preliminary Design for Service Spillway Replacements	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		15	3	3	0	1	15	2	475
08-51-0000001330	City of Mart Dam Rehabilitation Study	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation		46	28	55	0	4	23	4	281

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001331	City of Bellmead Drainage Study	Coordination and evaluation of flood modeling in the City of Bellmead city limits. Determining and analyzing the movement of water through the City of Bellmead and impacted areas recognized in FEMA Flood Plain maps.	McLennan	08000002, 08000003	Watershed Planning	92	Riverine	08003252	08003252	No	\$ 575,000
08-51-0000001332	Brushy Creek Crossing Roadway Improvement at North FM 908	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for bridge and roadway profile adjustments at the North Farm to Market Road 908 crossing of Brushy Creek.	Milam	08000006, 08000011, 08000012	Project Planning	55	Riverine	08000054	08000054	No	\$ 480,000
08-51-0000001333	Brushy Creek Crossing Channel Improvement at South FM 486	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for approximately 100 linear feet of channel grading and rehabilitation at the South Farm to Market Road 486 crossing of Brushy Creek.	Williamson, Milam	08000006, 08000012	Project Planning	56	Riverine	08000054	08000054	No	\$ 10,000
08-51-0000001334	Davidson Creek Crossing Roadway Improvement at County Road 327	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for bridge and roadway profile adjustments at the County Road 327 crossing of Davidson Creek.	Burleson, Milam	08000005, 08000006, 08000011	Project Planning	35	Riverine	08000054	08000054	No	\$ 115,000
08-51-0000001335	Cedar Creek Crossing Improvement at County Road 330	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for a 50-foot bridge to replace a pipe culvert at the County Road 330 crossing of Cedar Creek.	Burleson, Milam	08000005, 08000006, 08000011	Project Planning	99	Riverine	08000054	08000054	No	\$ 65,000
08-51-0000001336	Alum Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Grimes, Brazos	08000005, 08000007	Watershed Planning	66	Riverine	08003439	08003439	No	\$ 70,000
08-51-0000001337	Bee Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Brazos	08000005, 08000007	Watershed Planning	43	Riverine	08003439	08003439	No	\$ 80,000
08-51-0000001338	Burton Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Brazos	08000005, 08000007	Watershed Planning	43	Riverine	08003439	08003439	No	\$ 70,000
08-51-0000001339	Spring Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Grimes, Brazos	08000005, 08000007	Watershed Planning	66	Riverine	08003439	08003439	No	\$ 50,000
08-51-0000001340	Turkey Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Burleson, Brazos	08000005, 08000006, 08000007	Watershed Planning	59	Riverine	08003439	08003439	No	\$ 70,000

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFGP approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001331	City of Bellmead Drainage Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,676	1,052	16,042	12	6	327	74	3,601
08-51-0000001332	Brushy Creek Crossing Roadway Improvement at North FM 908	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		30	11	22	0	0	32	12	2,190
08-51-0000001333	Brushy Creek Crossing Channel Improvement at South FM 486	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		41	21	27	1	8	36	10	4,285
08-51-0000001334	Davidson Creek Crossing Roadway Improvement at County Road 327	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		6	2	8	0	0	7	2	80
08-51-0000001335	Cedar Creek Crossing Improvement at County Road 330	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		13	6	5	0	0	14	4	388
08-51-0000001336	Alum Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		106	85	177	0	2	28	5	206
08-51-0000001337	Bee Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		831	630	2,968	4	43	148	16	50
08-51-0000001338	Burton Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		831	630	2,968	4	43	148	16	50
08-51-0000001339	Spring Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		106	85	177	0	2	28	5	206
08-51-0000001340	Turkey Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		60	24	182	0	0	21	10	7,288

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001341	White Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Burleson, Brazos	08000005, 08000007	Watershed Planning	61	Riverine	08003439	08003439	No	\$ 85,000
08-51-0000001342	Wolf Pen Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Brazos	08000005, 08000007	Watershed Planning	43	Riverine	08003439	08003439	No	\$ 50,000
08-51-0000001343	Harvey Hillside Creek Watershed Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for the entire watershed.	Brazos	08000005, 08000007	Watershed Planning	43	Riverine	08003439	08003439	No	\$ 50,000
08-51-0000001344	Carters Creek Geomorphology Study	Perform a geomorphology study of Carters Creek to determine migration, erosion, and sedimentation patterns and develop potential mitigation projects to reduce the effects.	Grimes, Brazos	08000005, 08000007	Watershed Planning	68	Riverine	08003439	08003439	No	\$ 340,000
08-51-0000001345	Wolf Pen Creek Geomorphology Study	Perform a geomorphology study of Wolf Pen Creek to determine migration, erosion, and sedimentation patterns and develop potential mitigation projects to reduce the effects, focusing on known issues.	Brazos	08000005, 08000007	Watershed Planning	43	Riverine	08003439	08003439	No	\$ 75,000
08-51-0000001346	Project Development for Wolf Pen Creek Watershed	Update the conceptual flood mitigation projects and supporting modeling within the Wolf Pen Creek watershed (including projects for Miliff Rd Crossing, University Oaks Crossing, and Harvey Road Crossing), to account for the latest available data.	Brazos	08000005, 08000007	Project Planning	43	Riverine	08003439	08003439	No	\$ 150,000
08-51-0000001347	Project Development for Bee Creek Watershed	Update the conceptual flood mitigation projects and supporting modeling within the Bee Creek watershed (including projects for SW Pkwy Crossings, Holleman Crossing, and various channel improvements), to account for the latest available data.	Brazos	08000005, 08000007	Project Planning	43	Riverine	08003439	08003439	No	\$ 150,000
08-51-0000001348	Project Development for Bee Creek Trib A Watershed	Update the conceptual flood mitigation projects and supporting modeling for the stream crossings and channel improvements at Southwest Parkway from upstream of Welsh Ave to Highway 6 to account for latest available data.	Brazos	08000005, 08000007	Project Planning	43	Riverine	08003439	08003439	No	\$ 150,000
08-51-0000001349	Still Creek Detention Pond Study	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for a detention pond in the Still Creek watershed.	Brazos	08000005, 08000007	Project Planning	53	Riverine	08003438	08003438	No	\$ 270,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

				Flood Risk Metrics							
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001341	White Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		84	32	60	0	0	13	13	13,284
08-51-0000001342	Wolf Pen Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		831	630	2,968	4	43	148	16	50
08-51-0000001343	Harvey Hillside Creek Watershed Study	Local, TWDB FIF, TWDB CWSRF		831	630	2,968	4	43	148	16	50
08-51-0000001344	Carters Creek Geomorphology Study	Local, TWDB FIF, TWDB CWSRF		854	651	2,974	4	43	152	19	99
08-51-0000001345	Wolf Pen Creek Geomorphology Study	Local, TWDB FIF, TWDB CWSRF		831	630	2,968	4	43	148	16	50
08-51-0000001346	Project Development for Wolf Pen Creek Watershed	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		831	630	2,968	4	43	148	16	50
08-51-0000001347	Project Development for Bee Creek Watershed	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		831	630	2,968	4	43	148	16	50
08-51-0000001348	Project Development for Bee Creek Trib A Watershed	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		831	630	2,968	4	43	148	16	50
08-51-0000001349	Still Creek Detention Pond Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		264	172	584	0	15	56	9	108

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001350	Burton Creek Channel Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for Burton Creek Channel Improvements.	Brazos	08000005, 08000007	Project Planning	43	Riverine	08003438	08003438	No	\$ 265,000
08-51-0000001351	Old River Drainage Study	Perform a flood risk assessment, including hydrologic and hydraulic modeling, prepare flood risk maps for the Old River watershed, and develop flood risk mitigation projects with a focus on crossings and regions with known flooding.	Burleson, Brazos	08000005, 08000006, 08000007	Watershed Planning	150	Riverine	08000042	08000042, 08003471	No	\$ 550,000
08-51-0000001352	Cluck Creek Channel Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for channel improvement to Cluck Creek to reduce flood risk in flood prone areas of Cedar Park.	Travis, Williamson	08000012	Project Planning	61	Riverine	00003454	00003454	No	\$ 155,000
08-51-0000001353	Blockhouse Creek Channel Improvements Phase II	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for channel improvements to Blockhouse Creek to reduce flood risk in flood prone areas of Cedar Park.	Travis, Williamson	08000012	Project Planning	61	Riverine	00003454	00003454	No	\$ 100,000
08-51-0000001354	City of Killeen Low Water Crossing Flood Mitigation Phases 1 to 3	Study, including hydraulic and hydrologic analysis, of low water crossings within the City. Focus on project development (including up to 30% design) at previously prioritized high risk locations.	Bell, Coryell	08000008, 08000009, 08000010	Project Planning	214	Riverine	08003530	08003530	No	\$ 1,000,000
08-51-0000001355	Long Branch Environmental Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for improvements along Long Branch including a wet pond and stream bank improvements.	Bell, Coryell	08000008, 08000009, 08000010	Project Planning	45	Riverine	08003530	08003530	No	\$ 80,000
08-51-0000001356	City of Round Rock Regional Detention Feasibility Study	Study to identify locations for detention in the Brushy Creek Basin. The study will account for increases in rainfall shown in Atlas 14 data to help mitigate flood risk for neighborhoods and critical infrastructure in the city.	Travis, Williamson	08000012	Project Planning	124	Riverine	00003191	00003191	No	\$ 810,000
08-51-0000001357	County Road 462 Crossing at Deer Creek Improvement	Design up to 30% of a 90' bridge to replace pipe culverts at the County Road 462 crossing of Deer Creek.	Bell, Falls, McLennan	08000005, 08000011	Project Planning	47	Riverine	08000123	08000123	No	\$ 95,000
08-51-0000001358	State Highway 7 Roadway Improvement at Little Brazos River Crossing	Perform up to 30% design for roadway profile adjustments, and west bridge improvements or replacement at State Highway 7 and Little Brazos River Crossing.	Falls, Limestone	08000005, 08000007	Project Planning	42	Riverine	08000123	08000123	No	\$ 105,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001350	Burton Creek Channel Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		831	630	2,968	4	43	148	16	50
08-51-0000001351	Old River Drainage Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		168	65	262	0	0	41	27	21,822
08-51-0000001352	Cluck Creek Channel Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		388	325	1,064	0	20	80	8	34
08-51-0000001353	Blockhouse Creek Channel Improvements Phase II	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		388	325	1,064	0	20	80	8	34
08-51-0000001354	City of Killeen Low Water Crossing Flood Mitigation Phases 1 to 3	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,046	667	3,331	2	58	247	33	796
08-51-0000001355	Long Branch Environmental Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		865	593	2,708	2	49	140	14	19
08-51-0000001356	City of Round Rock Regional Detention Feasibility Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		606	468	2,372	3	27	126	21	1,082
08-51-0000001357	County Road 462 Crossing at Deer Creek Improvement	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		6	4	5	0	4	18	2	367
08-51-0000001358	State Highway 7 Roadway Improvement at Little Brazos River Crossing	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		5	2	3	0	2	16	4	318

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001359	Brazos County Flood Risk Assessment	Perform a flood risk assessment, including hydrologic and hydraulic modeling, and prepare flood risk maps for creeks throughout Brazos County that are currently listed as Zone A on the FEMA floodplain maps.	Washington, Burleson, Grimes, Brazos, Madison, Robertson	08000005, 08000006, 08000007	Watershed Planning	902	Riverine	08000048	08000048	No	\$ 1,700,000
08-51-0000001360	Big Creek Grade Control Study	Leverage preliminary study completed by the USACE to develop projects to mitigate erosion in identified problem areas along Big Creek.	Brazoria, Fort Bend	08000013, 08000014	Project Planning	57	Riverine	00002044	00000009, 00002044	No	\$ 370,000
08-51-0000001361	Bessie's Creek Grade Control Study	Leverage preliminary study completed by the USACE to develop projects to mitigate erosion in identified problem areas along Bessie's Creek.	Fort Bend, Austin	08000013, 08000014	Project Planning	37	Riverine	00002044	00000009, 00002044	No	\$ 230,000
08-51-0000001362	Stafford Run Improvements Study Update	Update to Stafford Run Creek Study to ensure it meets guidelines for FMP qualification.	Brazoria, Galveston, Fort Bend	08000013, 08000014	Project Planning	419	Riverine, Coastal	00002044	00000009, 00002044, 00003596	No	\$ 315,000
08-51-0000001363	Brazos River Study Update (Fort Bend County)	Update the latest Brazos River 1D/2D models to reflect the latest data including terrain, utilize the latest modeling methodologies including full 2D analysis, and perform alternative analysis to develop flood mitigation projects and strategies.	Brazoria, Galveston, Fort Bend, Austin, Waller, Washington	08000005, 08000013, 08000014	Watershed Planning	1,851	Riverine, Coastal	00002044	00000009, 00002044	No	\$ 1,000,000
08-51-0000001364	Williamson Countywide Enhancements to Atlas 14 Modeling and Mapping	Enhancements to existing Williamson County modeling potentially including updates with new terrain, updates to land conditions (existing and future), rainfall changes, modeling software updates, and other enhancements as identified.	Bastrop, Lee, Travis, Williamson, Burnet, Milam, Bell, Lampasas, Coryell, Mills, Hamilton	08000006, 08000008, 08000009, 08000010, 08000011, 08000012	Watershed Planning	2,842	Riverine	00000043	00000043	No	\$10,300,000
08-51-0000001365	Countywide Road Washout Study	Hydrologic and hydraulic analysis and preliminary engineering for several commonly washed-out road segments to identify solutions.	Harris, Waller, Washington, Montgomery, Grimes, Brazos, Walker, Madison	08000005, 08000007, 08000013	Project Planning	1,494	Riverine	00000044	00000044	No	\$ 1,000,000
08-51-0000001366	Grimes County Road 162 Drainage Improvements	Perform a hydrologic and hydraulic analysis and complete preliminary engineering (design up to 30% completion) for CR 162 to identify mitigation project to prevent washout.	Grimes, Brazos	08000007	Project Planning	59	Riverine	00000044	00000044	No	\$ 195,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001359	Brazos County Flood Risk Assessment	Local, TWDB FIF, TWDB CWSRF		2,093	1,431	4,805	6	68	418	144	61,956
08-51-0000001360	Big Creek Grade Control Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		353	178	333	2	0	23	24	703
08-51-0000001361	Bessie's Creek Grade Control Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		413	288	568	0	1	36	13	1,043
08-51-0000001362	Stafford Run Improvements Study Update	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		3,556	2,682	10,987	11	0	378	114	10,937
08-51-0000001363	Brazos River Study Update (Fort Bend County)	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		30,020	22,991	53,443	54	22	2,170	916	82,213
08-51-0000001364	Williamson Countywide Enhancements to Atlas 14 Modeling and Mapping	Local, TWDB FIF, TWDB CWSRF		5,215	3,581	10,275	12	272	1,124	253	38,997
08-51-0000001365	Countywide Road Washout Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		914	572	1,688	5	15	195	59	14,271
08-51-0000001366	Grimes County Road 162 Drainage Improvements	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		33	20	16	0	0	11	3	189

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001367	Evaluation of Culvert Enlargement and Bridge Elevation in Grimes County	Countywide study to identify flood prone areas and mitigate flood damage through culvert and bridge crossing improvements.	Harris, Waller, Washington, Montgomery, Grimes, Brazos, Walker, Madison	08000005, 08000007, 08000013	Project Planning	1,494	Riverine	00000044	00000044	No	\$ 1,000,000
08-51-0000001368	Grimes County Flood Map Updates	Hydrologic and hydraulic modeling of Zone A areas, especially where there is expected development, to evaluate existing flood risk and develop flood risk maps.	Harris, Waller, Washington, Montgomery, Grimes, Brazos, Walker, Madison	08000005, 08000007, 08000013	Watershed Planning	1,494	Riverine	00000044	00000044	No	\$ 1,500,000
08-51-0000001369	Holland Creek Crossing Improvement Study	Study crossings within the Holland Creek watershed (including crossing CR 404, CR 403, CR 447, CR 405, CR 227, CR 189, and CR 40) and identify projects to improve undersized culverts and low water crossings.	Grimes, Brazos	08000005, 08000007	Project Planning	120	Riverine	00000044	00000044	No	\$ 595,000
08-51-0000001370	Rocky Creek Crossing Improvement Study	Study crossings within the Rocky Creek watershed (including crossing CR 185, CRF 224, CR 188 CR 223, and CR 180) and identify projects to improve undersized culverts and low water crossings.	Grimes	08000007	Project Planning	46	Riverine	00000044	00000044	No	\$ 515,000
08-51-0000001371	Gibbons Creek Crossing Improvement Study	Study crossings within the Gibbons Creek watershed (including crossing CR 190, CR 192, CR 171, and CR 166) and identify projects to improve undersized culverts and low water crossings.	Grimes	08000007	Project Planning	118	Riverine	00000044	00000044	No	\$ 515,000
08-51-0000001372	Panther Creek Crossing Improvement Study	Study crossings within the Panther Creek watershed (including crossing CR 175, CR 173, Roes Rd, Rodemel Ranch Rd, and S Fork Ln) and identify projects to improve undersized culverts and low water crossings.	Grimes	08000007	Project Planning	16	Riverine	00000044	00000044	No	\$ 310,000
08-51-0000001373	Ragan Creek Crossing Improvement Study	Study crossings within the Ragan Creek watershed (including crossing CR 103) and identify projects to improve undersized culverts and low water crossings.	Grimes, Brazos, Madison	08000007	Project Planning	57	Riverine	00000044	00000044	No	\$ 235,000
08-51-0000001374	Morgan Creek Crossing Improvement Study	Study crossings within the Morgan Creek watershed (including crossing CR 103, CR 104, and CR 104A) and identify projects to improve undersized culverts and low water crossings.	Grimes, Brazos, Madison	08000007	Project Planning	57	Riverine	00000044	00000044	No	\$ 295,000
08-51-0000001375	Neville Creek Crossing Improvement Study	Study crossings within the Neville Creek watershed (including crossing CR 102) and identify projects to improve undersized culverts and low water crossings.	Grimes, Brazos, Madison	08000007	Project Planning	57	Riverine	00000044	00000044	No	\$ 240,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001367	Evaluation of Culvert Enlargement and Bridge Elevation in Grimes County	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		914	572	1,688	5	15	195	59	14,271
08-51-0000001368	Grimes County Flood Map Updates	Local, TWDB FIF, TWDB CWSRF		914	572	1,688	5	15	195	59	14,271
08-51-0000001369	Holland Creek Crossing Improvement Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		37	17	34	0	5	19	5	479
08-51-0000001370	Rocky Creek Crossing Improvement Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		12	5	12	0	0	7	2	138
08-51-0000001371	Gibbons Creek Crossing Improvement Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		43	30	23	0	2	17	5	139
08-51-0000001372	Panther Creek Crossing Improvement Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		7	3	4	0	0	6	1	37
08-51-0000001373	Ragan Creek Crossing Improvement Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2	0	0	0	0	11	2	49
08-51-0000001374	Morgan Creek Crossing Improvement Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2	0	0	0	0	11	2	49
08-51-0000001375	Neville Creek Crossing Improvement Study	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		2	0	0	0	0	11	2	49

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001376	Williamson Countywide Enhanced Mitigation Analysis	Analysis of flood-prone areas (including damage centers and low water crossings and enhanced mobility) across the County for the purpose of developing additional Flood Mitigation Projects.	Bastrop, Lee, Travis, Williamson, Burnet, Milam, Bell, Lampasas, Coryell, Mills, Hamilton	08000006, 08000008, 08000009, 08000010, 08000011, 08000012	Watershed Planning	2,842	Riverine	00000043	00000043	No	\$ 2,060,000
08-51-0000001377	City of Somerville Drainage Master Plan	Drainage master plan aimed at identifying and addressing short term and long term drainage issues. Includes developing models, assessing existing flood risk, identifying projects to mitigate risk, and reviewing city ordinances and design criteria.	Washington, Burleson	08000005, 08000006	Watershed Planning	24	Riverine	08003488	08000162	No	\$ 200,000
08-51-0000001378	Fort Bend Extreme Event Levee Analysis & Evacuation Plan	Evaluate critical impacts and vulnerability of the Fort Bend County levee districts at various stages using existing hydrologic and hydraulic modeling. Develop an emergency action plan and identify areas of critical risk.	Brazoria, Wharton, Fort Bend, Austin, Harris, Waller, Matagorda	08000013, 08000014	Preparedness	1,354	Riverine	00002044	00000009, 00002044	No	\$ 307,000
08-51-0000001379	Fort Bend Master Drainage Plan Update	Update existing master drainage plan models including revising models to full 2D analysis, evaluation of new development in close proximity to proposed projects, and incorporation of latest terrain data.	Brazoria, Wharton, Fort Bend, Austin, Harris, Waller, Matagorda	08000013, 08000014	Watershed Planning	1,354	Riverine	00002044	00000009, 00002044	No	\$ 3,000,000
08-51-0000001380	Brazos River Flood Study (Brazos County)	Perform a hydrologic and hydraulic analysis and prepare flood risk mapping of the Brazos River with a focus on the portion of the river through Brazos County.	Waller, Washington, Burleson, Grimes, Brazos, Milam, Robertson	08000005, 08000006, 08000007, 08000011, 08000013	Watershed Planning	801	Riverine	08000048	08000048	No	\$ 400,000
08-51-0000001381	City of Killeen Drainage Master Plan	Update to the Killeen MDP including acquiring new survey, using Atlas 14, and including storm drain system. Revalidate all drainage improvement alternatives and update to meet TWDB standards, assess funding sources, and develop an implementation plan.	Bell, Coryell	08000008, 08000009, 08000010	Watershed Planning	214	Riverine	08003530	08003530	No	\$ 2,500,000

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001376	Williamson Countywide Enhanced Mitigation Analysis	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		5,215	3,581	10,275	12	272	1,124	253	38,997
08-51-0000001377	City of Somerville Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		45	30	64	0	1	28	3	241
08-51-0000001378	Fort Bend Extreme Event Levee Analysis & Evacuation Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		17,706	13,863	36,254	34	6	1,353	422	44,582
08-51-0000001379	Fort Bend Master Drainage Plan Update	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		17,706	13,863	36,254	34	6	1,353	422	44,582
08-51-0000001380	Brazos River Flood Study (Brazos County)	Local, TWDB FIF, TWDB CWSRF		1,430	805	2,865	7	19	273	134	74,825
08-51-0000001381	City of Killeen Drainage Master Plan	Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT		1,046	667	3,331	2	58	247	33	796

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001382	Snook Area Drainage Project	Study to perform hydrologic and hydraulic analysis in support of a proposed project to create or improve drainage from the two worst problem areas into the Old River Channel and improve flow down the channel to Hwy 50, totaling approximately 10.3 miles. During heavy/extended rains, water backs up throughout this entire area, leading to widespread flooding that jeopardizes life/safety and existing infrastructure including schools, city hall, and emergency facilities; in some places it reaches 4 ft deep and isolates homes.	Burleson		Project Planning			Burleson County	Burleson County, City of Snook		
08-51-0000001383	Clay CR 434 Drainage Project	Study to perform hydrologic and hydraulic analysis in support of a proposed project to raise County Road 434 and improve culvert crossings. During heavy/extended rains, County Road 434—the primary road allowing access to the highway from this region—floods in three places west of Clay on Hwy 50. For emergency purposes to preserve life and safety, the road needs to be raised with adequate culvert drainage in three key sections to enable traffic to reach the highway and major urban areas/services even during heavier rain events.	Burleson		Project Planning			Burleson County	Burleson County		
08-51-0000001384	4th and Blair Drainage Improvements	The area of E. 4th Ave and N. Blair has been identified as a flood concern. The water runs from the N. side of E. 6th Ave. and down N. Blair causing flooding of the street. The street runs between high school buildings and causes safety concerns for the students and faculty. The location lacks storm drain inlets to effectively manage rainwater runoff	Bell		Project Planning			City of Belton	City of Belton		
08-51-0000001385	Turtle Creek Channel and Drainage Improvements	Turtle Creek flows from west of Main Street (FM 317) eastward to the Leon River. Along its course, the creek is channeled underground through undersized box culverts and transitions to open drainage near two houses with failing bridges. During significant rain, water to overflows onto N. Beal, necessitating road closures.	Bell		Project Planning			City of Belton	City of Belton		

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001382	Snook Area Drainage Project										
08-51-0000001383	Clay CR 434 Drainage Project										
08-51-0000001384	4th and Blair Drainage Improvements										
08-51-0000001385	Turtle Creek Channel and Drainage Improvements										

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001386	Mitchell Branch Channel Drainage Improvements	Mitchell Branch originates west of Southwest Parkway, flows under I-35, and continues to Loop 121. Despite channel improvements already completed at Southwest Parkway and Connell Street, an undersized culvert at S. Wall Street causes the water to overflow during heavy rainfall events and floods Miller Park.	Bell		Project Planning			City of Belton	City of Belton		
08-51-0000001387	Waco Road Drainage Improvements Feasibility Study	The Old Waco Road underpass at the BNSF Railroad Crossing experiences flooding during even minor rain events. The existing drainage system consists of a single inlet leading to an underground storm sewer, which is inadequate to handle the water runoff.	Bell		Project Planning			City of Belton	City of Belton		
08-51-0000001388	City of Caldwell Master Drainage Plan	Development of a city-wide Master Drainage Plan to identify flooding issues, evaluate existing infrastructure, and recommend prioritized improvement projects. The plan will incorporate Atlas 14 rainfall data and provide a framework for long-term flood mitigation and funding eligibility.	Burleson		Project Planning			City of Caldwell	City of Caldwell		
08-51-0000001389	City of Caldwell Floodplain Remapping	City-wide floodplain remapping using Atlas 14 rainfall data to update flood risk boundaries and provide more accurate information for planning, regulation, and mitigation efforts.	Burleson		Watershed Planning			City of Caldwell	City of Caldwell		

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFGP approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001386	Mitchell Branch Channel Drainage Improvements										
08-51-0000001387	Waco Road Drainage Improvements Feasibility Study										
08-51-0000001388	City of Caldwell Master Drainage Plan										
08-51-0000001389	City of Caldwell Floodplain Remapping										

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001390	City of Cedar Park Stormwater Master Plan Update	The City of Cedar Park adopted their current Stormwater Master Plan in 2019 to set the stage for carrying out stormwater management and flood mitigation projects. Since then, several projects have been implemented to reduce flood risk and manage drainage concerns within the City. However, the budgets associated with the original Master Plan are outdated as costs to implement the proposed projects have significantly increased due to inflation. The City needs an update to the 2019 Stormwater Master Plan that will review and refine the remaining projects from the original master plan, provide suggestions of new beneficial projects, and develop a phasing plan that will provide flood reduction and stormwater management benefits to the community in financially feasible segments. This updated master plan will help the City prioritize the implementation of future projects as well as assist with the development of project budgets for future fiscal planning.	Williamson		Project Planning			City of Cedar Park	City of Cedar Park		
08-51-0000001391	Cedar Creek	The majority of Cedar Creek was previously studied by FEMA. However, the boundaries appear to be incorrect based on historical flooding events known in the community. The estimated base flood elevation viewer appears to be much more accurate with Lidar Data. An updated study of Cedar Creek is warranted to help define the true 100yr floodplain through the heart of the City.	Grimes		Watershed Planning			City of Navasota	City of Navasota		
08-51-0000001392	Sandy Creek	A large studied tributary of Sandy Creek spans across a large area of the City. The study area boundaries immitted a large area upstream and downstream of this watershed. Major flooding has occurred along the southern boundary in the Carver Subdivision as a result of the roadway and railroad obstacles. The flooding from this tributary also impacts the City's large Industrial District along the southern boundary of the City.	Grimes		Watershed Planning			City of Navasota	City of Navasota		

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001390	City of Cedar Park Stormwater Master Plan Update										
08-51-0000001391	Cedar Creek										
08-51-0000001392	Sandy Creek										

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001393	Cedar Creek Tributary	A tributary of Cedar Creek within the City of Navasota remains unstudied. An evaluation of existing flood risks would help identify potential projects or strategies to reduce past flooding events in this area. Localized flooding has taken place on the northern boundary in and around the Jarvis Tire business. The total area is approximately 75 acres.	Grimes		Watershed Planning			City of Navasota	City of Navasota		
08-51-0000001394	City of Navasota Master Drainage Plan	Development of a city-wide Master Drainage Plan to identify flooding issues, evaluate existing infrastructure, and recommend prioritized improvement projects. The plan will incorporate Atlas 14 rainfall data and provide a framework for long-term flood mitigation and funding eligibility.	Grimes		Project Planning			City of Navasota	City of Navasota		
08-51-0000001395	City of Navasota Remapping	City-wide floodplain remapping using Atlas 14 rainfall data to update flood risk boundaries and provide more accurate information for planning, regulation, and mitigation efforts.	Grimes		Watershed Planning			City of Navasota	City of Navasota		
08-51-0000001396	Regional Detention Study	Study to determine the most viable locations for regional detention and conveyance improvements for the City of Needville.	Fort Bend		Project Planning			City of Needville	City of Needville		
08-51-0000001397	Brushy Creek East Regional Wastewater Treatment Plant Floodwall Feasibility Study	For the purpose of plan selection, an economic analysis will be conducted to develop a risk-based evaluation in terms of benefits, costs, and performance of the alternatives under the future "project conditions". The analysis encompasses preliminary engineering studies, permitting, up to 30% floodwall design, and cost estimates including interest during construction computations which assume project completion in 2030.	Williamson		Project Planning			City of Round Rock	City of Round Rock		
08-51-0000001398	City of Round Rock Master Drainage Plan	Development of a city-wide Master Drainage Plan including a comprehensive analysis of city drainage infrastructure and overland flows to evaluate existing flood risk and recommend improvement projects.	Williamson		Project Planning			City of Round Rock	City of Round Rock		
08-51-0000001399	Ultimate Conditions Modeling	Hydrologic and hydraulic analysis of ultimate conditions within the City to identify future flood risk and identify projects or strategies to mitigate flood risk for the City.	Williamson		Watershed Planning			City of Round Rock	City of Round Rock		

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001393	Cedar Creek Tributary										
08-51-0000001394	City of Navasota Master Drainage Plan										
08-51-0000001395	City of Navasota Remapping										
08-51-0000001396	Regional Detention Study										
08-51-0000001397	Brushy Creek East Regional Wastewater Treatment Plant Floodwall Feasibility Study										
08-51-0000001398	City of Round Rock Master Drainage Plan										
08-51-0000001399	Ultimate Conditions Modeling										

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

General Metrics											
FME ID	FME Name	Description	County	Watersheds	FME Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Study Cost
08-51-0000001400	Palo Pinto / Parker / Hood County Evacuation Routes	Determine evacuation routes in Palo Pinto/Parker/Hood Counties along the Brazos River from Possum Kingdom to Lake Granbury based on stream gauge depth for minor to major flooding.	Parker		Watershed Planning			Parker County	Parker County		
08-51-0000001401	Parker County Dam Inundation Maps	Develop dam inundation maps for dams in Parker County that do not have current inundation maps or digital maps are not available.	Parker		Watershed Planning			Parker County	Parker County		

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Table 12 - Potentially Feasible Flood Management Evaluations (FMEs)

		Flood Risk Metrics									
FME ID	FME Name	Potential Funding Sources	Potential Funding Amount	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Number of low water crossings in project area at annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road segment closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)
08-51-0000001400	Palo Pinto / Parker / Hood County Evacuation Routes										
08-51-0000001401	Parker County Dam Inundation Maps										

FMEs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-000000709	Vine Street Property Flooding	Acquisition of properties with high flood risk on Vine Street.	08000009	Brazos	08000007	Property Acquisition	0.03	Riverine, Local	08003438	08003438	Yes	\$ 600,000
08-52-000000712	Bryan Boonville and Briarcrest Bridges	Addition of bridges, channel benching, and detention	08000009	Brazos	08000007	Comprehensive	0.47	Riverine, Local	08003438	08000048	No	\$ 12,313,000
08-52-000000784	Bessie's & Brookshire Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013, 08000014	Channel	30.69	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 285,000,000
08-52-000000786	Bee Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	08000013	Channel	4.54	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 38,771,000
08-52-000000797	Big Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	56.57	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 662,333,000
08-52-000000800	Coon Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	17.11	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 141,439,008
08-52-000000801	Cow Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	08000013	Channel	30.88	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 119,191,000
08-52-000000805	Cottonwood Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	22.96	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 182,426,000
08-52-000000809	Diversion Channel Ditch and Drop Structure	Channel re-configuration to re-direct flow from Big Creek. Improvements to drop structure to have capacity for this increased flow.	08000009	Fort Bend	08000013	Channel	12.29	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 266,699,000
08-52-000000811	Dry Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	20.06	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 133,315,000
08-52-000000814	Dutch John Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	11.18	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 39,101,000
08-52-000000817	Fairchild Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	30.80	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 190,448,000
08-52-000000818	Flewellen Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	08000013, 08000014	Channel	20.75	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 542,725,000
08-52-000000820	Gapps Slough Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	12.58	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 48,302,000
08-52-000000821	Jones Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	08000013, 08000014	Comprehensive	21.69	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 556,012,000
08-52-000000823	Lateral IIB-7 & IIB-9 Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	5.70	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 62,287,000
08-52-000000827	Lower Dry Creek Channel Improvement	Channel improvements and re-configurations.	08000009	Fort Bend	08000013	Channel	19.98	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 110,716,000

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics															
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk
08-52-0000000709	Vine Street Property Flooding	0.00	0.00	0	0	0	0		0	0	0	0	0	2	0	0	0
08-52-0000000712	Bryan Boonville and Briarcrest Bridges	0.34		29	24	121	0		0	11	1	0	10	6	0	2	26
08-52-0000000784	Bessie's & Brookshire Creek Channel Improvements	18.25	24.41	834	666	1,095	1		0	94	33	7,464	148	213	0	181	413
08-52-0000000786	Bee Creek Channel Improvements	1.13	1.45	19	12	11	0		0	2	0	306	0	0	0	0	0
08-52-0000000797	Big Creek Channel Improvements	13.55	35.76	628	517	940	1		0	7	23	9,442	15	589	0	497	913
08-52-0000000800	Coon Creek Channel Improvements	17.11	19.17	276	178	506	0		0	0	7	4,745	1	275	0	177	503
08-52-0000000801	Cow Creek Channel Improvements	11.09	13.46	144	100	180	0		2	17	8	4,378	2	34	0	17	42
08-52-0000000805	Cottonwood Creek Channel Improvements	8.47	10.19	134	112	260	0		0	0	3	4,675	0	134	0	112	260
08-52-0000000809	Diversion Channel Ditch and Drop Structure	12.19	12.33	8	0	1	0		0	1	5	5,229	0	0	0	0	0
08-52-0000000811	Dry Creek Channel Improvements	8.97	11.24	635	491	738	0		0	0	14	2,600	126	509	0	381	661
08-52-0000000814	Dutch John Channel Improvements	1.20	7.04	12	12	36	0		0	1	2	2,071	0	0	0	0	0
08-52-0000000817	Fairchild Creek Channel Improvements	15.30	18.51	949	803	1,385	1		0	1	10	7,817	18	931	0	792	1,289
08-52-0000000818	Flewellen Creek Channel Improvements	4.47	5.75	77	40	136	0		0	6	1	1,508	19	58	0	22	59
08-52-0000000820	Gapps Slough Channel Improvements	5.96	7.94	295	238	492	0		0	7	12	2,369	5	164	0	161	254
08-52-0000000821	Jones Creek Channel Improvements	6.40	10.93	829	737	1,594	4		0	71	18	1,988	179	47	0	45	138
08-52-0000000823	Lateral IIB-7 & IIB-9 Channel Improvements	3.22	4.00	144	122	164	0		0	0	7	1,693	19	125	0	11	155
08-52-0000000827	Lower Dry Creek Channel Improvement	17.61	18.81	343	219	489	2		0	20	14	5,058	2	0	0	0	0

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																	
FMP ID	FMP Name	Critical facilities removed from 1% annual flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
08-52-0000000709	Vine Street Property Flooding	0		0	0	0	0	0	0	Unkown	100-year	0	No	No	0.59	No	1.00
08-52-0000000712	Bryan Boonville and Briarcrest Bridges	0		0	1	1	0	0	0	10-year	100-year	0	No	No	0.39	No	0.09
08-52-0000000784	Bessie's & Brookshire Creek Channel Improvements	1		0	9	28	1,215	0	0	2-year	100-year	0	No	No	0.06	No	0.02
08-52-0000000786	Bee Creek Channel Improvements	0		0	0	0	256	0	0	5-year	100-year	0	No	No	0.47	No	0.00
08-52-0000000797	Big Creek Channel Improvements	1		0	14	0	6,479	0	0	2-year	100-year	0	No	No	0.39	No	0.01
08-52-0000000800	Coon Creek Channel Improvements	0		0	7	0	4,576	0	0	2-year	100-year	0	No	No	0.52	No	0.03
08-52-0000000801	Cow Creek Channel Improvements	0		0	1	2	2,138	0	0	5-year	100-year	0	No	No	0.52	No	0.00
08-52-0000000805	Cottonwood Creek Channel Improvements	0		0	3	0	4,579	0	0	2-year	100-year	0	No	No	0.51	No	0.01
08-52-0000000809	Diversion Channel Ditch and Drop Structure	0		0	0	0	1	0	0	2-year	100-year	0	No	No	0.27	No	0.00
08-52-0000000811	Dry Creek Channel Improvements	0		0	13	0	2,064	0	0	2-year	100-year	0	No	No	0.35	No	0.05
08-52-0000000814	Dutch John Channel Improvements	0		0	2	0	1,469	0	0	2-year	100-year	0	No	No	0.27	No	0.00
08-52-0000000817	Fairchild Creek Channel Improvements	1		0	10	0	2,772	0	0	2-year	100-year	0	No	No	0.54	No	0.05
08-52-0000000818	Flewellen Creek Channel Improvements	0		0	0	0	0	0	0	2-year	100-year	0	No	No	0.05	No	0.00
08-52-0000000820	Gapps Slough Channel Improvements	0		0	6	0	547	0	0	2-year	100-year	0	No	No	0.23	No	0.05
08-52-0000000821	Jones Creek Channel Improvements	4		0	0	0	1	0	0	2-year	100-year	0	No	No	0.06	No	0.01
08-52-0000000823	Lateral IIB-7 & IIB-9 Channel Improvements	0		0	6	0	1,663	0	0	2-year	100-year	0	No	No	0.27	No	0.02
08-52-0000000827	Lower Dry Creek Channel Improvement	2		0	0	0	94	0	0	2-year	100-year	0	No	No	0.24	No	0.03

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-000000828	Seabourne Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013	Channel	13.04	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 104,974,000
08-52-000000829	Turkey Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	08000013	Channel	23.41	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 86,161,000
08-52-000000834	Oyster Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013, 08000014	Channel	20.78	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 315,176,000
08-52-000000838	Lower Oyster Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013, 08000014	Channel	3.91	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 125,690,000
08-52-000000841	Red Gully Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000014	Channel	3.04	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 46,719,000
08-52-000000843	Bullhead Bayou Channels and Detention	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000013, 08000014	Channel	6.22	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 62,498,000
08-52-000000847	Stafford Run Channels and Detentions	Channel improvements and re-configurations at several key locations, addition of in-line detention.	08000009	Fort Bend	08000014	Channel	2.20	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 15,612,000
08-52-000000853	Long Point Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	08000014	Channel	3.15	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 8,760,000
08-52-000000855	Rabbs Bayou Detention	Proposal of regional detention basin.	08000009	Fort Bend	08000013	Detention Pond	11.53	Riverine, Local	00000009	00000009, 00002044	Yes	\$ 8,699,000
08-52-0000001062	Hazelwood Crossing	Construction of a bridge to allow for neighborhood access during storm events.	08000009	McLennan	08000002	LWC upgrade	0.62	Riverine, Local	08000138	08000138, 08003297	Yes	\$ 616,000
08-52-0000001063	Panther Branch Crossing	Bridge improvements to allow for neighborhood access during storm events by relieving flooding at the crossing with Rock Springs Creek.	08000009	McLennan	08000004	LWC upgrade	0.57	Riverine, Local	08000138	08000138, 08002787	Yes	\$ 669,000
08-52-0000001288	Diversion Improvements for South Rising Star	Improvements and extension to existing berm and construction of roadside ditch to direct flow to existing diversion channel.	08000009, 08000010	Eastland	08000008	Channel	1.58	Riverine, Local	08003315	08003315, 00000167	No	\$ 1,595,000
08-52-0000001289	FM 219 and North Bosque River Crossing Improvement	Replacement of existing culverts with bridge. Benching along channel for mitigation.	08000007, 08000008	Bosque	08000004	LWC upgrade	3.83	Riverine, Local	08002783	08002783, 08000158	No	\$ 2,733,000
08-52-0000001290	Benching along Gibson Branch	Benching along Gibson Branch and removal of E Avenue H to remove structures from flood risk and allow for mobility during severe storm events.	8000009, 8000010	Lampasas	08000010	Channel	0.05	Riverine, Local	08003133	08003133, 00000064	No	\$ 1,132,000
08-52-0000001291	Cemetery Creek Improvements	Channel and crossing improvements along Cemetary Creek - tributary to Sulphur Creek.	8000009, 8000010	Lampasas	08000010	Channel	0.76	Riverine, Local	08003133	08003133, 00000064	No	\$ 13,305,000
08-52-0000001292	Comanche Detention	Addition of detention and channel benching	08000009	Comanche	08000008	Comprehensive	7.04	Riverine, Local	08002380	00000160	No	\$ 46,985,000

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics															
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk
08-52-0000000828	Seabourne Creek Channel Improvements	5.41	7.18	577	473	1,214	4		0	0	13	2,336	4	573	0	472	1,212
08-52-0000000829	Turkey Creek Channel Improvements	7.76	10.89	39	24	46	0		0	14	3	3,909	2	22	0	10	29
08-52-0000000834	Oyster Creek Channel Improvements	5.83	9.59	385	340	2,000	1		0	322	39	748	1	0	0	0	0
08-52-0000000838	Lower Oyster Creek Channel Improvements	1.66	2.56	60	37	367	0		0	29	4	290	0	0	0	0	0
08-52-0000000841	Red Gully Channel Improvements	1.44	1.69	579	555	2,411	0		0	75	10	163	0	0	0	0	0
08-52-0000000843	Bullhead Bayou Channels and Detention	3.38	4.80	56	28	700	0		0	60	9	1,729	7	44	0	24	396
08-52-0000000847	Stafford Run Channels and Detentions	0.53	1.05	160	110	251	0		0	77	9	10	0	0	0	0	0
08-52-0000000853	Long Point Creek Channel Improvements	1.22	1.53	39	36	88	0		0	30	2	50	3	4	0	4	14
08-52-0000000855	Rabbs Bayou Detention	2.51	3.98	276	260	891	0		0	78	12	801	0	0	0	0	0
08-52-0000001062	Hazelwood Crossing	0.00	0.00	0	0	0	0		0	0	0	0	0	0	0	0	0
08-52-0000001063	Panther Branch Crossing	0.00	0.00	0	0	0	0		0	0	0	0	0	0	0	0	0
08-52-0000001288	Diversion Improvements for South Rising Star	0.78	0.95	40	35	44	1		0	16	2	267	17	23	32	20	40
08-52-0000001289	FM 219 and North Bosque River Crossing Improvement	0.92	1.12				0		0	6	1	157					
08-52-0000001290	Benching along Gibson Branch	0.04	0.04	15	3	32	0		1	6	0	0	14	6	1	0	17
08-52-0000001291	Cemetery Creek Improvements	0.27	0.34	630	327	4,168	8		3	56	7	2	614	35	50	303	4,101
08-52-0000001292	Comanche Detention	3.80	4.26	201	127	538	0		2	51	6	773	71	40	14	29	55

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																	
FMP ID	FMP Name	Critical facilities removed from 1% annual flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
08-52-0000000828	Seabourne Creek Channel Improvements	4		0	13	0	2,270	0	0	2-year	100-year	0	No	No	0.53	No	0.05
08-52-0000000829	Turkey Creek Channel Improvements	0		0	1	3	3,393	0	0	5-year	100-year	0	No	No	0.47	No	0.00
08-52-0000000834	Oyster Creek Channel Improvements	0		0	31	236	4	0	0	2-year	100-year	0	No	No	0.23	No	0.00
08-52-0000000838	Lower Oyster Creek Channel Improvements	0		0	2	20	2	0	0	2-year	100-year	0	No	No	0.14	No	0.00
08-52-0000000841	Red Gully Channel Improvements	0		0	7	37	85	0	0	2-year	100-year	0	No	No	0.36	No	0.06
08-52-0000000843	Bullhead Bayou Channels and Detention	0		0	5	41	637	0	0	2-year	100-year	0	No	No	0.42	No	0.01
08-52-0000000847	Stafford Run Channels and Detentions	0		0	3	21	2	0	0	2-year	100-year	0	No	No	0.58	No	0.00
08-52-0000000853	Long Point Creek Channel Improvements	0		0	1	16	4	0	0	2-year	100-year	0	No	No	0.31	No	0.00
08-52-0000000855	Rabbs Bayou Detention	0		0	1	2	6	0	0	10-year	100-year	0	No	No	0.37	No	0.00
08-52-0000001062	Hazelwood Crossing	0		0	0	0	0	0	0	10-year	100-year	0	No	No	0.69	No	0.00
08-52-0000001063	Panther Branch Crossing	0		0	0	0	0	0	0	10-year	100-year	0	No	No	0.28	No	0.00
08-52-0000001288	Diversion Improvements for South Rising Star	0		0	0	0	6	0	0	2-year	100-year	0	No	No	0.59	No	0.93
08-52-0000001289	FM 219 and North Bosque River Crossing Improvement	0		0	0	0	0	0	0	50-year	100-year	0	No	No	0.22	No	0.70
08-52-0000001290	Benching along Gibson Branch	0		0	0	1	0	0	0	5-year	100-year	0	No	No	0.86	No	0.26
08-52-0000001291	Cemetery Creek Improvements	5		0	1	0	1	0	0	10-year	100-year	0	No	No	0.72	No	0.08
08-52-0000001292	Comanche Detention	0		0	1	2	26	0	0	10-year	100-year	0	No	No	0.87	No	0.02

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001293	US180 Rock Creek Overbank Crossing	Culvert improvement and detention	08000009	Parker	08000001	LWC upgrade	1.36	Riverine, Local	08003291	00000122	No	\$ 10,129,000
08-52-0000001294	US180 Rock Creek Tributary 1 Crossing	Culvert improvement and channel benching	08000009	Palo Pinto	08000001	LWC upgrade	0.01	Riverine, Local	08003291	08000121	No	\$ 1,237,000
08-52-0000001295	Jim Neal Branch Tributary 2 Crossing	Culvert improvement	08000009	Eastland	08000008	LWC upgrade	0.03	Riverine, Local	00000167	00000167	No	\$ 476,700
08-52-0000001296	Jim Neal Branch Tributary 1 Crossing	Culvert improvement and channel benching	08000009	Eastland	08000008	LWC upgrade	0.08	Riverine, Local	00000167	00000167	No	\$ 3,083,000
08-52-0000001297	Jim Neal Branch Crossing	Culvert improvement and channel benching	08000009	Eastland	08000008	LWC upgrade	0.05	Riverine, Local	00000167	00000167	No	\$ 1,925,100
08-52-0000001298	Prairie Wind Alternative 2	Includes channel excavation, creation of an additional channel, and (5)10'x6' RCB	8000007, 8000008, 8000009, 8000010	Erath	North Bosque	LWC upgrade	1.11	Riverine, Local	08002906	08002906, 08000169	No	\$ 6,182,000
08-52-0000001299	Lingleville Alternative 2	Includes (4)10'x6' RCB and upstream grading	8000007, 8000008	Erath	North Bosque	LWC upgrade	0.49	Riverine, Local	08002906	08002906, 08000169	No	\$ 2,014,000
08-52-0000001300	County Road 256 Alternative 1	Includes raising the road, (7)10'x9' RCB, and grading along the river	8000007, 8000008, 8000009, 8000010	Erath	North Bosque	LWC upgrade	3.02	Riverine, Local	08002906	08002906, 08000169	No	\$ 4,145,000
08-52-0000001301	Morgan Mill Alternative 1	Includes minor grading and (6)12'x7' RCB	8000007, 8000008, 8000009, 8000010	Erath	North Bosque	LWC upgrade	2.76	Riverine, Local	08002906	08002906, 08000169	No	\$ 2,661,000
08-52-0000001302	Long St Alternative 1	Includes installing a 425' span bridge with road elevation on either side	8000007, 8000008	Erath	North Bosque	LWC upgrade	94.72	Riverine, Local	08002906	08002906, 08000169	No	\$ 8,993,000
08-52-0000001303	Weaver Creek and Main Street Culvert Improvements	Detention pond, channel improvements, and culvert improvements.	08000009	Eastland	Leon	Comprehensive	0.02	Riverine, Local	08002766	08002766, 00000167	No	\$ 6,848,000
08-52-0000001304	Tributary 3 and UPPR Culvert Improvements	Culvert improvements; upstream and downstream channel improvements.	08000009	Eastland	Leon	Comprehensive	0.01	Riverine, Local	08002766	08002766, 00000167	No	\$ 2,912,400
08-52-0000001305	Lake Eastland CIP 3.5	Reconstruction of primary Lake Eastland spillway.	08000009	Eastland	Leon	Comprehensive	0.00	Riverine, Local	08002766	08002766, 00000167	No	\$ 15,700,000
08-52-0000001306	Mallard Lane	Proposed storm drainage system located along Summit Circle, Kingston Circle, Mallard Lane, and Greenlawn Drive. Approximately 2,000 linear ft.	08000009	Williamson	San Gabriel	Storm Drain	0.49	Riverine, Local	08003480	08003480	No	\$ 1,620,000

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics															
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk
08-52-0000001293	US180 Rock Creek Overbank Crossing	0.65	0.76	20		82	0		0	8	1	3	4	5	1		31
08-52-0000001294	US180 Rock Creek Tributary 1 Crossing	0.01	0.01	0		0	0		0	2	0		0	0	0		0
08-52-0000001295	Jim Neal Branch Tributary 2 Crossing	0.01	0.01	1		0	0		0	1	0		1	0	0		0
08-52-0000001296	Jim Neal Branch Tributary 1 Crossing	0.06	0.06	2	2	0	0		0	1	0	2	2	0	0		0
08-52-0000001297	Jim Neal Branch Crossing	0.02	0.03	2		0	0		0	1	0	0	1	0	0		0
08-52-0000001298	Prairie Wind Alternative 2	0.06	0.06	8	8	23	0		1	10	0	0	0	8	10	8	23
08-52-0000001299	Lingleville Alternative 2	0.02	0.02	0	0	0	0		1	10	0	0	0	0	0	0	0
08-52-0000001300	County Road 256 Alternative 1	0.29	0.32	4	4	2	0		1	10	0	0	3	1	0	1	0
08-52-0000001301	Morgan Mill Alternative 1	0.14	0.15	18	10	31	0		1	5	0	0	5	13	13	7	20
08-52-0000001302	Long St Alternative 1	10.59	10.72	5	5	10	0		1	10	0	0	0	0	0	0	0
08-52-0000001303	Weaver Creek and Main Street Culvert Improvements	2.54	2.81	282	161	482	1		0	4	12	28		2	0	0	11
08-52-0000001304	Tributary 3 and UPPR Culvert Improvements	2.53	2.82	229	113	405	1		0	0	12	28		55	33	48	192
08-52-0000001305	Lake Eastland CIP 3.5	2.53	2.80	277	160	478	1		0	0	12	27		7	4	1	19
08-52-0000001306	Mallard Lane	0.14		35	33	105	0		0	0	0		33	2		2	6

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																	
FMP ID	FMP Name	Critical facilities removed from 1% annual flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
08-52-0000001293	US180 Rock Creek Overbank Crossing	0		0	0	5	1	0	0	10-year	100-year	0	No	No	0.38	No	0.22
08-52-0000001294	US180 Rock Creek Tributary 1 Crossing	0		0	0	0	0	0	0	10-year	100-year	0	No	No	0.56	No	0.02
08-52-0000001295	Jim Neal Branch Tributary 2 Crossing	0		0	0	1	0	0	0	5-year	100-year	0	No	No	0.63	No	0.01
08-52-0000001296	Jim Neal Branch Tributary 1 Crossing	0		0	0	1	0	0	0	5-year	100-year	0	No	No	0.63	No	0.03
08-52-0000001297	Jim Neal Branch Crossing	0		0	0	1	0	0	0	5-year	100-year	0	No	No	0.63	No	0.02
08-52-0000001298	Prairie Wind Alternative 2	0		1	0	9	0	0	0	<2-Year	100-Year	10.6000004	No	No	0.41	No	0.60
08-52-0000001299	Lingleville Alternative 2	0		1	0	9	0	0	0	<2-Year	100-Year	0	No	No	0.41	No	1.10
08-52-0000001300	County Road 256 Alternative 1	0		0	0	8	0	0	0	<2-Year	5-Year	0	No	No	0.39	No	0.50
08-52-0000001301	Morgan Mill Alternative 1	0		1	0	5	0	0	0	2-Year	100-Year	0	No	No	0.57	No	1.80
08-52-0000001302	Long St Alternative 1	0		1	0	10	0	0	0	<2-Year	100-Year	0	No	No	0.68	No	0.10
08-52-0000001303	Weaver Creek and Main Street Culvert Improvements	0		0	1	10	0	0	0	2-Year	100-Year	0	No	No	0.70	No	0.10
08-52-0000001304	Tributary 3 and UPPR Culvert Improvements	0		0	1	0	0	0	0	10-Year	100-Year	0	No	No	0.70	No	0.30
08-52-0000001305	Lake Eastland CIP 3.5	0		0	1	0	1	0	0	10-Year	100-Year	0	No	No	0.70	No	0.20
08-52-0000001306	Mallard Lane	0		0	0	0		0	0	<2-Year	100-Year	0	No	No	0.33	No	0.00

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General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001307	TH Johnson	Proposed channel located south of TH Johnson Drive and discharging into Bull Branch, including approximately 500 feet of new concrete channel, and the installation of 3 RCB culverts at Crystal Circle	08000009	Williamson	San Gabriel	Channel	0.63	Riverine, Local	08003480	08003480	No	\$ 489,000
08-52-0000001308	Davis St	Proposed storm sewer along Davis Street from 8th Street to 2nd Street that discharges to the existing outfall in the railroad drainage ditch to the north of the railroad and ties into 2nd st existing drainage system. Approximately 3,750 linear ft of RCP.	08000009	Williamson	San Gabriel	Storm Drain	0.50	Riverine, Local	08003480	08003480	No	\$ 4,270,000
08-52-0000001309	Bel-Air	Proposed storm sewer system located along Bel-Air Drive, Dellinger Drive, and Randall Street that discharges into Bull Branch. Approximately 1,365 linear ft.	08000009	Williamson	San Gabriel	Storm Drain	0.17	Riverine, Local	08003480	08003480	No	\$ 903,000
08-52-0000001310	Annie St	Proposed storm sewer along Annie Street, Howard Street, and 7th Street that discharges to a new outfall in the railroad drainage ditch to the south of 2nd street. Approximately 4,000 linear ft of RCP.	08000009	Williamson	San Gabriel	Storm Drain	0.50	Riverine, Local	08003480	08003480	No	\$ 2,626,000
08-52-0000001311	Sun Valley Neighborhood Levee	Buyouts, construction of levee, and storm sewer.	08000009	Coryell	Leon	Comprehensive	8.42	Riverine, Local	08003293	08003293	No	\$ 1,594,300
08-52-0000001312	Straws Mill Road LWC	Includes raising the road and adding culverts at crossing.	08000008	Coryell	Leon	LWC upgrade	4.21	Riverine, Local	08003293	08003293	No	\$ 1,021,700
08-52-0000001313	Leon WWTP Parapet Wall	Construction of ring parapet.	08000009	Coryell	Leon	Comprehensive	2.18	Riverine, Local	08003293	08003293	Yes	\$ 642,000
08-52-0000001314	Arrowood Lane Culvert	Construction of arch culvert and channel improvements.	08000008	Coryell	Leon	LWC upgrade	2.16	Riverine, Local	08003293	08003293	No	\$ 776,000
08-52-0000001315	SH 36 Culverts	Construction of 2 additional culverts at crossing.	08000008	Coryell	Leon	LWC upgrade	2.16	Riverine, Local	08003293	08003293	No	\$ 328,000
08-52-0000001316	FM 929 Culverts	Construction of culvert and channel improvements.	08000008	Coryell	Leon	LWC upgrade	0.02	Riverine, Local	08003293	08003293	No	\$ 1,535,000
08-52-0000001317	West Yegua Creek - Stockade Ranch Road Improvements (Tributary 3)	Upgrade to 120-ft span bridge with channel improvements at structure, 70 LF raised roadway		Bastrop					Bastrop County	Bastrop County		
08-52-0000001318	West Yegua Creek - Marlin Street Improvements (Tributary 8)	Upgrade to 8 - 5x3 box culverts with channel improvements at structure		Bastrop					Bastrop County	Bastrop County		
08-52-0000001319	West Yegua Creek - Marlin Street Improvements (Tributary 12)	Upgrade to 60-ft span bridge with channel improvements at structure		Bastrop					Bastrop County	Bastrop County		

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FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk
08-52-0000001307	TH Johnson	0.19		10	10	30	0		0	0	0		10	0		0	0
08-52-0000001308	Davis St	0.15		23	17	111	0		0	0	0		10	13		9	67
08-52-0000001309	Bel-Air	0.05		9	9	27	0		0	0	0		8	1		1	3
08-52-0000001310	Annie St	0.15		14	14	42	0		0	0	0		6	8		8	24
08-52-0000001311	Sun Valley Neighborhood Levee	105.00	154.00	43	43	129	0		0	1	0	0	0	43	0	43	129
08-52-0000001312	Straws Mill Road LWC	0.00	0.00	0	0	0	0		1	1	0	0	0	0	0	0	0
08-52-0000001313	Leon WWTP Parapet Wall	0.00	0.00	0	0	9	0		0	0	0	0	0	3	0	0	9
08-52-0000001314	Arrowood Lane Culvert	0.00	0.00	0	0	0	0		0	0	0	0	1	0	0	0	0
08-52-0000001315	SH 36 Culverts	0.00	0.00	0	0	3	0		0	0	0	0	1	1	0	1	3
08-52-0000001316	FM 929 Culverts	0.00	0.00	0	0	42	0		0	0	0	0	0	14	0	14	42
08-52-0000001317	West Yegua Creek - Stockade Ranch Road Improvements (Tributary 3)																
08-52-0000001318	West Yegua Creek - Marlin Street Improvements (Tributary 8)																
08-52-0000001319	West Yegua Creek - Marlin Street Improvements (Tributary 12)																

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																		
FMP ID	FMP Name	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio	
08-52-0000001307	TH Johnson	0		0	0	0		0	0	< 2-Year	100-Year	0	No	No	0.33	No	0.00	
08-52-0000001308	Davis St	0		0	0	0		0	0	< 2-Year	100-Year	0	No	No	0.37	No	0.10	
08-52-0000001309	Bel-Air	0		0	0	0		0	0	< 2-Year	100-Year	0	No	No	0.33	No	0.00	
08-52-0000001310	Annie St	0		0	0	0		0	0	< 2-Year	100-Year	0	No	No	0.37	No	0.30	
08-52-0000001311	Sun Valley Neighborhood Levee	0		0	0	1	70	0	0	10-Year	100-Year	0	No	No	0.68	No	1.38	
08-52-0000001312	Straws Mill Road LWC	0		1	0	1	0	0	0	2-Year	100-Year	0	No	No	0.51	No	1.81	
08-52-0000001313	Leon WWTP Parapet Wall	1		0	0	0	0	0	0	Unknown	Unknown	0	No	No	0.51	No	0.00	
08-52-0000001314	Arrowood Lane Culvert	0		0	0	0	0	0	0	Unknown	Unknown	0	No	No	0.68	No	0.00	
08-52-0000001315	SH 36 Culverts	0		0	0	0	0	0	0	Unknown	Unknown	0	No	No	0.68	No	0.00	
08-52-0000001316	FM 929 Culverts	0		0	0	0	0	0	0	Unknown	Unknown	0	No	No	0.35	No	0.00	
08-52-0000001317	West Yegua Creek - Stockade Ranch Road Improvements (Tributary 3)																	
08-52-0000001318	West Yegua Creek - Marlin Street Improvements (Tributary 8)																	
08-52-0000001319	West Yegua Creek - Marlin Street Improvements (Tributary 12)																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001320	West Yegua Creek - Marlin Street Improvements (Tributary 12)	Upgrade to 100-ft span bridge with channel improvements at structure		Bastrop					Bastrop County	Bastrop County		
08-52-0000001321	Burton Creek Channel Improvements	Final design and construction of channel improvements for Burton Creek between the Tanglewood Drive crossing and 29th Street crossing.		Brazos					City of Bryan	City of Bryan		
08-52-0000001322	Still Creek Detention Pond	Final design, right-of-way acquisition, and construction of an 18-acre detention pond in the Still Creek watershed north of the Bonham Drive and Wilkes Street intersection.		Brazos					City of Bryan	City of Bryan		
08-52-0000001323	Block House Creek Drainage Improvement Project	The proposed project will provide flood reductions along Block House Creek within the Cedar Park Ranchettes – 6A Subdivision. The subdivision is an older, established neighborhood that was built prior to current standard drainage criteria. The residents of the neighborhood are subject to flooding with even the most minor storm events. To provide a measure of relief to the residents as well as emergency access during the lower rainfall events, anticipated work will include regional detention upstream of the subdivision, channelization of the creek through the subdivision, as well as downstream improvements to allow floodwaters to pass more efficiently.		Williamson					City of Cedar Park	City of Cedar Park		
08-52-0000001324	Georgetown Channel - US 190 to Randa Street	This top ranked project would mitigate existing erosion issues. The work will include a retaining wall of 4500 SF (6ft x 750 LF). The surface area of the ditch will require cleaning and reshaping (750 LF). Will push channel bend away from a nearby apartment complex. Current capacity in this segment is less than the 2-yr storm event.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001325	Avenue B and North 7th Street	The project will include new inlet grate at intersection, trenching and new outflow to existing drainage. The pipe would follow W Ave B, FM113 North on the southwest side to the existing drainage culvert.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001326	Courtney Lane to N 17th Street	The project will include excavation, rip rap, shaping the drainage ditch, and a natural step-pool channel design. Grade control structures at intervals along channel from culvert under North 17th Street to culvert under Courtney Lane.		Coryell					City of Copperas Cove	City of Copperas Cove		

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics																
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	
08-52-0000001320	West Yegua Creek - Marlin Street Improvements (Tributary 12)																	
08-52-0000001321	Burton Creek Channel Improvements																	
08-52-0000001322	Still Creek Detention Pond																	
08-52-0000001323	Block House Creek Drainage Improvement Project																	
08-52-0000001324	Georgetown Channel - US 190 to Randa Street																	
08-52-0000001325	Avenue B and North 7th Street																	
08-52-0000001326	Courtney Lane to N 17th Street																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																	
FMP ID	FMP Name	Critical facilities removed from 1% annual flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
08-52-0000001320	West Yegua Creek - Marlin Street Improvements (Tributary 12)																
08-52-0000001321	Burton Creek Channel Improvements																
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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001327	Golf Course Road and Texas Street	The project would replace the current inlet grate with a storm water junction box. The existing 24 inch storm water pipe will be extended into the junction box.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001328	101 US 190	The project will install a new head wall with wingwalls at the existing 36 inch RCP. Sediment removal from the RCB outfall and RCP inlet. Install concrete pilot channel. Phase 2 of the project would change out the current driveway culvert along US Business 190 and replace with 24 inch RCP for the 25yr storm event.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001329	Drainage Ditch on West Ave B	The project would have the grade of the ditch between Appaloosa to Wagontrain to a 12 foot V-ditch with 3:1 slope. The flowline elevation 1082.5 to elevation 1079.5, to convey 25yr frequency storm event. Place two 24 inch RCPs under Wagontrain to discharge at grate inlet. Replace the existing grate with larger opening grate to reduce inlet blockage.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001330	Culverts under South FM 116	The project would place concrete encasement and grade control step structures for grade control at the exposed utility line. The removal of sediment debris from the culverts under South FM 116. Then the implementation of a natural step-pool channel design for drop structures along the channel from outfall near Hughes Ave to culvert under South FM 116.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001331	Deorsam Drive and Phyllis Drive - Storage	The project will provide additional flood storage at the Pleasant Ditch to prevent flows from overtopping the Pleasant ditch berm and flowing down Phyllis drive, which results in flooding at the intersection. There will be replacement of the existing 24 inch (CMP) Corrugated Metal Pipe that drains from Deorsam Drive and Phyllis Drive intersection with a 36 inch RCP.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001332	Channel from N 17th and N 11th behind W Lincoln Ave	This project will include installation of 2-24 inch RCP, backfill soil under the concrete lip of the adjacent driveway, and armor with dry rock riprap to repair the channel and prevent further erosion. Rock riprap will be sized to handle maximum velocities experienced at this location, 10 fps, per the ICM model. the 12-inch diameter rock riprap armoring will extend across the bankfull channel, approximately 20 ft wide and begin from the edge of the west. There will be excavation of the channel with re-shaping the ditch with rip rap installed to armor the walls.		Coryell					City of Copperas Cove	City of Copperas Cove		

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics																
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	
08-52-0000001327	Golf Course Road and Texas Street																	
08-52-0000001328	101 US 190																	
08-52-0000001329	Drainage Ditch on West Ave B																	
08-52-0000001330	Culverts under South FM 116																	
08-52-0000001331	Deorsam Drive and Phyllis Drive - Storage																	
08-52-0000001332	Channel from N 17th and N 11th behind W Lincoln Ave																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																		
FMP ID	FMP Name	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio	
08-52-0000001327	Golf Course Road and Texas Street																	
08-52-0000001328	101 US 190																	
08-52-0000001329	Drainage Ditch on West Ave B																	
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08-52-0000001331	Deorsam Drive and Phyllis Drive - Storage																	
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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001333	Georgetown Channel from Westview	The project armors the channel bottom depth of 2 ft (approximately 1500 LF) with articulated blocks (flexmate product) and armors the banks of the channel at points of inflow.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001334	Deorsam Dr and Phyllis Dr - Channel	This project provides additional flood water storage by widening the existing channel between Randa St and Deorsam Drive. This project includes widening channel bottom width by 7 ft between Randa St and 335 ft south of Deorsam Dr. This will increase storage capacity by 0.38 ac-ft.		Coryell					City of Copperas Cove	City of Copperas Cove		
08-52-0000001335	1A Proposed Ditch	Street ponding within the City of Hempstead at 1st Street and Grace Road. Proposing small channel, culvert crossings, and drainage easements to drain ponding water.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001336	2A Floodplain Storage Improvements	Proposed shelving / benching of Blasingame Creek south of Washington Street in City of Hempstead. Proposed project is planned to provide additional floodplain storage and help relieve flooding.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001337	2B Floodplain Storage and Conveyance Improvements	over time a lot of debris and sedimentation has built up in a segment of Unnamed Tributary 1 to Blasingame Creek. The proposed project is planned to provide additional floodplain conveyance and help relieve flooding to surrounding properties by removing sedimentation, and providing needed creek maintenance.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001338	2C Channelization Relief Route	This project is a part of the proposed shelving / benching of Blasingame creek south of Washington Street in City of Hempstead. 2C is proposed to utilize the upstream storage created to provide additional relief to Blasingame Creek by channelization.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001339	3A Low Water Crossing Improvement	Improvement to a low water crossing on New Orleans Street between 15th Street and 14th Street within the City of Hempstead. Channel improvements and proposed culvert crossing involved to allow the crossing to be more accessible in larger storm events.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001340	3B Low Water Crossing Improvement	Improvement to a low water crossing on Main Street. Channel improvements and proposed culvert crossing involved.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001341	3C Low Water Crossing Improvement	Improvement to a low water crossing at Galveston Street and 12th Street. Channel improvements and culverts involved to allow the crossing to be more accessible in larger storm events.		Waller					City of Hempstead	City of Hempstead		

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics															
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk
08-52-0000001333	Georgetown Channel from Westview																
08-52-0000001334	Deorsam Dr and Phyllis Dr - Channel																
08-52-0000001335	1A Proposed Ditch																
08-52-0000001336	2A Floodplain Storage Improvements																
08-52-0000001337	2B Floodplain Storage and Conveyance Improvements																
08-52-0000001338	2C Channelization Relief Route																
08-52-0000001339	3A Low Water Crossing Improvement																
08-52-0000001340	3B Low Water Crossing Improvement																
08-52-0000001341	3C Low Water Crossing Improvement																

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																		
FMP ID	FMP Name	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio	
08-52-0000001333	Georgetown Channel from Westview																	
08-52-0000001334	Deorsam Dr and Phyllis Dr - Channel																	
08-52-0000001335	1A Proposed Ditch																	
08-52-0000001336	2A Floodplain Storage Improvements																	
08-52-0000001337	2B Floodplain Storage and Conveyance Improvements																	
08-52-0000001338	2C Channelization Relief Route																	
08-52-0000001339	3A Low Water Crossing Improvement																	
08-52-0000001340	3B Low Water Crossing Improvement																	
08-52-0000001341	3C Low Water Crossing Improvement																	

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General Metrics												
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08-52-0000001342	3D Low Water Crossing and Ditch Improvement	Improvement to a low water crossing at McDade Street, west of 13th Street, Small drainage ditch improvements and culverts involved to allow the crossing to be more accessible in larger storm events.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001343	3E Low Water Crossing and Drainage Ditch Improvement	Improvement to a low water crossing on Donoho Street, near Bobcat Stadium. Drainage ditch improvements and storm sewer involved to prevent ponding and back up of water in the ditch at the low water crossing.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001344	4A 11th Street Detention	Proposed detention pond located west of 11th Street and north of Peebles Street. Rerouting of storm sewer north that drains to 11th Street to the pond. Outfall would drain south to 11th Street outfall.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001345	5A Proposed Culvert Improvement	Proposed culvert improvement to existing crossing at St Mary's St and Blasingame Creek crossing.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001346	5B Proposed Culvert Improvement	Proposed culvert improvement to existing crossing at Rice Street and Blasingame Creek crossing.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001347	5D Proposed Culvert Improvement	Proposed culvert improvement to existing crossing at Austin Street and Blasingame Creek crossing.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001348	5E Culvert Improvement	Proposed culvert improvement to existing crossing at Washington Street and Blasingame Creek crossing.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001349	5F Culvert Crossing Improvement	Proposed culvert improvement along Unnamed Tributary 1 to Blasingame Creek at 11th Street.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001350	5G Culvert Improvement and Replacement	Proposed box culvert improvement at 15th Street and New Orleans Street. Existing culvert is damaged and experiencing a lot of erosion on the downstream extent.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001351	6A Storm Sewer and Downstream Mitigation to Improve Street Ponding	Inlet and storm sewer to provide positive drainage for long term ponding after storm events along Donoho Street, McDade, and 3rd Street near Hempstead high school. A regional detention pond downstream where the City owns tax parcels is proposed to provide the needed depth for appropriate cover on the storm sewer infrastructure.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001352	6B Local Storm Sewer Improvements	Proposed storm sewer improvements surrounding 10th Street to drain west to 11th Street crossing. No existing curb / gutter infrastructure, the water currently ponds in the streets at the low points.		Waller					City of Hempstead	City of Hempstead		
08-52-0000001353	Alma Drive	Overflow occurring from the channel along Almna Drive. Channel improvements are proposed to contain flow		Bell					City of Killeen	City of Killeen		

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08-52-0000001342	3D Low Water Crossing and Ditch Improvement																	
08-52-0000001343	3E Low Water Crossing and Drainage Ditch Improvement																	
08-52-0000001344	4A 11th Street Detention																	
08-52-0000001345	5A Proposed Culvert Improvement																	
08-52-0000001346	5B Proposed Culvert Improvement																	
08-52-0000001347	5D Proposed Culvert Improvement																	
08-52-0000001348	5E Culvert Improvement																	
08-52-0000001349	5F Culvert Crossing Improvement																	
08-52-0000001350	5G Culvert Improvement and Replacement																	
08-52-0000001351	6A Storm Sewer and Downstream Mitigation to Improve Street Ponding																	
08-52-0000001352	6B Local Storm Sewer Improvements																	
08-52-0000001353	Alma Drive																	

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08-52-0000001342	3D Low Water Crossing and Ditch Improvement																
08-52-0000001343	3E Low Water Crossing and Drainage Ditch Improvement																
08-52-0000001344	4A 11th Street Detention																
08-52-0000001345	5A Proposed Culvert Improvement																
08-52-0000001346	5B Proposed Culvert Improvement																
08-52-0000001347	5D Proposed Culvert Improvement																
08-52-0000001348	5E Culvert Improvement																
08-52-0000001349	5F Culvert Crossing Improvement																
08-52-0000001350	5G Culvert Improvement and Replacement																
08-52-0000001351	6A Storm Sewer and Downstream Mitigation to Improve Street Ponding																
08-52-0000001352	6B Local Storm Sewer Improvements																
08-52-0000001353	Alma Drive																

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001354	Bunny Trail/North Creek	North Reese Tributary 1 at locations upstream and downstream of Bunny Trail. Possible detention and/or channel improvement		Bell					City of Killeen	City of Killeen		
08-52-0000001355	Caprice Ditch upstream of Westcliff	Improvements would include update and maximize existing culverts capacity and channel improvements to help reduce the risks of flooding in the area		Bell					City of Killeen	City of Killeen		
08-52-0000001356	Cobblestone and Turtle Creek Drive	Project will include ditch improvements		Bell					City of Killeen	City of Killeen		
08-52-0000001357	Liberty Ditch Upstream of the Railroad	Improvements will include additional pipes under railroad to reduce backwater		Bell					City of Killeen	City of Killeen		
08-52-0000001358	Liberty Ditch Upstream of Rancier Avenue	Improvements will include update and maximize existing culverts capacity and channel improvements to help reduce the risks of flooding in the described area		Bell					City of Killeen	City of Killeen		
08-52-0000001359	Long Avenue and Fowler Avenue	Project will include culvert and channel improvements		Bell					City of Killeen	City of Killeen		
08-52-0000001360	Long Branch upstream and downstream of Lake Road	Improvements will include culvert and channel improvements		Bell					City of Killeen	City of Killeen		
08-52-0000001361	Stewart Ditch from Rancier to Railroad	Improvements will include culvert and channel improvements		Bell					City of Killeen	City of Killeen		
08-52-0000001362	Rancier Avenue	Structures flooded from Texas Avenue to Rancier Avenue on Stewart Ditch Tributary 1. Project proposes Channel Improvements		Bell					City of Killeen	City of Killeen		
08-52-0000001363	Trimmier Road Ditch	Project will include a possible additional culvert under I-14		Bell					City of Killeen	City of Killeen		
08-52-0000001364	Stillwood Ditch	Flooding Issues around Stillwood Drive. Project will include Stillwood Ditch Improvements		Bell					City of Killeen	City of Killeen		
08-52-0000001365	Fairchild Creek Diversion	Comprehensive flood risk mitigation project including channel improvements, crossing structure improvements, construction of a new diversion channel, and downstream mitigation to reduce flood risk associated with Fairchilds Creek in the City of Needville.		Fort Bend					City of Needville	City of Needville		
08-52-0000001366	Seaboure Creek Regional Detention	Seaboure Creek Regional Detention project tract covers approximately 155 acres and is located directly east of Texas State Highway 36 Road and approximately 1/2 mile to the south of US Highway 59 in Rosenberg, Fort Bend County, Texas.		Fort Bend					City of Rosenberg	City of Rosenberg		

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics																
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	
08-52-0000001354	Bunny Trail/North Creek																	
08-52-0000001355	Caprice Ditch upstream of Westcliff																	
08-52-0000001356	Cobblestone and Turtle Creek Drive																	
08-52-0000001357	Liberty Ditch Upstream of the Railroad																	
08-52-0000001358	Liberty Ditch Upstream of Rancier Avenue																	
08-52-0000001359	Long Avenue and Fowler Avenue																	
08-52-0000001360	Long Branch upstream and downstream of Lake Road																	
08-52-0000001361	Stewart Ditch from Rancier to Railroad																	
08-52-0000001362	Rancier Avenue																	
08-52-0000001363	Trimmier Road Ditch																	
08-52-0000001364	Stillwood Ditch																	
08-52-0000001365	Fairchild Creek Diversion																	
08-52-0000001366	Seaboure Creek Regional Detention																	

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																		
FMP ID	FMP Name	Critical facilities removed from 1% annual flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio	
08-52-0000001354	Bunny Trail/North Creek																	
08-52-0000001355	Caprice Ditch upstream of Westcliff																	
08-52-0000001356	Cobblestone and Turtle Creek Drive																	
08-52-0000001357	Liberty Ditch Upstream of the Railroad																	
08-52-0000001358	Liberty Ditch Upstream of Rancier Avenue																	
08-52-0000001359	Long Avenue and Fowler Avenue																	
08-52-0000001360	Long Branch upstream and downstream of Lake Road																	
08-52-0000001361	Stewart Ditch from Rancier to Railroad																	
08-52-0000001362	Rancier Avenue																	
08-52-0000001363	Trimmier Road Ditch																	
08-52-0000001364	Stillwood Ditch																	
08-52-0000001365	Fairchild Creek Diversion																	
08-52-0000001366	Seaboure Creek Regional Detention																	

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001367	Dry Creek Drainage Improvement Project	Construction of drainage channel improvements for Dry Creek Upstream and Theater Ditch North to reduce flooding and the associated structural damages for residents in the Dry Creek Watershed.		Fort Bend					City of Rosenberg	City of Rosenberg		
08-52-0000001368	Brushy Creek East Regional Wastewater Treatment Plant	Floodwall design and construction to protect the Brushy Creek East Regional Wastewater Treatment Plant (BCE WWTP) from flooding, and provide access to the facilities during a 100-year flood event. This project will also mitigate internal drainage issues at the BCE WWTP, preventing discharge of full 100-year flood water and internal hydraulics preventing effluent discharge during a 100-year event.		Williamson					City of Round Rock	City of Round Rock		
08-52-0000001369	FBC LID 2 Drainage Improvements	Replacement of drainage system to reduce pluvial flooding risk to developed neighborhoods in the LID 2 area		Fort Bend					City of Sugar Land, Fort Bend County	City of Sugar Land, Fort Bend County		
08-52-0000001370	Sugar Land Business Park Regional Detention Improvements	Increase the regional detention ponds serving the Sugar Land Business Park to support Atlas 14 rainfall volumes		Fort Bend					City of Sugar Land, Fort Bend County	City of Sugar Land, Fort Bend County		
08-52-0000001371	Triangle Area Regional Detention Improvements	Increase the regional detention ponds serving the Triangle Area to support Atlas -14 rainfall volumes		Fort Bend					City of Sugar Land, Fort Bend County	City of Sugar Land, Fort Bend County		
08-52-0000001372	Primrose Creek Channel Improvements	Channel expansion and realignment of current, concrete-lined Primrose Creek channel. Design includes channel expansion and realignment, mitigation (detention), bridge and roadway improvements, ROW acquisition, and utility relocations. Two negative impact mitigation options were modeled successfully. Bridge and roadway improvement costs are not included.		McLennan					City of Waco	City of Waco		
08-52-0000001373	Jones Creek Gabion Basket Mattress Repair	Repair and replacement of existing gabion mattress structure with rip rap. Project scope includes haul road.		Fort Bend					FBC MUD 145	FBC MUD 145		
08-52-0000001374	Jones Creek Grade Control	Construction of proposed projects to mitigate erosion within Jones Creek.		Fort Bend					Fort Bend County DD	Fort Bend County DD		

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics																
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	
08-52-0000001367	Dry Creek Drainage Improvement Project																	
08-52-0000001368	Brushy Creek East Regional Wastewater Treatment Plant																	
08-52-0000001369	FBC LID 2 Drainage Improvements																	
08-52-0000001370	Sugar Land Business Park Regional Detention Improvements																	
08-52-0000001371	Triangle Area Regional Detention Improvements																	
08-52-0000001372	Primrose Creek Channel Improvements																	
08-52-0000001373	Jones Creek Gabion Basket Mattress Repair																	
08-52-0000001374	Jones Creek Grade Control																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																		
FMP ID	FMP Name	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio	
08-52-0000001367	Dry Creek Drainage Improvement Project																	
08-52-0000001368	Brushy Creek East Regional Wastewater Treatment Plant																	
08-52-0000001369	FBC LID 2 Drainage Improvements																	
08-52-0000001370	Sugar Land Business Park Regional Detention Improvements																	
08-52-0000001371	Triangle Area Regional Detention Improvements																	
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08-52-0000001373	Jones Creek Gabion Basket Mattress Repair																	
08-52-0000001374	Jones Creek Grade Control																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001375	Mustang Bayou Improvements	Construction of proposed projects to mitigate flooding along Mustang Bayou.		Fort Bend					Fort Bend County DD	Fort Bend County DD		
08-52-0000001376	Internal Flood Storage	During Hurricane Harvey, over 230 homes flooded as the result of limited drainage capacity within the District and City of Sugar Land. The District and City of Sugar Land have completed 3 projects to increase the pump and storm sewer capacity of the District. The City's project received FIF Funding during the first round. In 2020 and 2025, the District evaluated projects to provide additional flood storage that would further reduce the risk of flooding with the District / City of Sugar Land. The proposed project would excavate portions of the Sweetwater Country Club which already exists as flood storage. The project would excavate additional flood storage by expanding existing ponds and channels and lowering portions of the golf course. The project would reduce the flood risk for the 9,000 residential structures and over \$7B in value within the levee protected area.		Fort Bend					Fort Bend LID 2	Fort Bend LID 2		
08-52-0000001377	High Meadows Flood Risk Reduction	An area of Fort Bend LID 7 drains directly through the levee independent of the District's primary channel and pump station. During severe weather / heavy rainfall, the District deploys portable pumps within the High Meadows Subdivision to pump out the existing storm sewer. The District has evaluated two projects to reduce the flood risk within High Meadows. Potential Project 1 would construction a permanent pump station. Project 2 would reroute the storm sewer outfalls to the District's main pump station. The District prefers Project 2 since it will reduce the risk of flooding while reducing the amount of time and manpower required with the portable pumps.		Fort Bend					Fort Bend LID 7	Fort Bend LID 7		
08-52-0000001378	Brazos River Erosion	The Brazos River along the Sienna PLID Flood Protection System (Levee) has several areas of erosion that could cause failures to the flood protection system. This would impact the flood risk for approximately 14,000 residential and commercial structures with a population of over 30,000 and a protected property value of \$7B. The proposed project would repair / stabilize the areas of erosion.		Fort Bend					Sienna Parks and LID	Sienna Parks and LID		

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics																
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	
08-52-0000001375	Mustang Bayou Improvements																	
08-52-0000001376	Internal Flood Storage																	
08-52-0000001377	High Meadows Flood Risk Reduction																	
08-52-0000001378	Brazos River Erosion																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																		
FMP ID	FMP Name	Critical facilities removed from 1% annual flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio	
08-52-0000001375	Mustang Bayou Improvements																	
08-52-0000001376	Internal Flood Storage																	
08-52-0000001377	High Meadows Flood Risk Reduction																	
08-52-0000001378	Brazos River Erosion																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001379	Bridge Crossing Replacement Project	The internal drainage system has 7 road crossings that are restrictions during severe / heavy rainfall. The master drainage plan was updated based on Altas 14 rainfall which evaluated proposed improvements at each crossing.		Fort Bend					Sienna Parks and LID	Sienna Parks and LID		
08-52-0000001380	Channel & Culvert Improvements to Three Mile Creek near Prairie View	Channel deepening and widening with detention basins, including ROW acquisition, along Three Mile Creek and its unnamed tributary between US 290 and Brumlow Road, and associated culvert improvements.		Waller					Waller County	Waller County		
08-52-0000001381	Adams Flat Channel Improvements	Channel deepening and widening, including ROW acquisition, along the East Tributary of Bessies Creek and its tributaries and culvert improvements along Wilson Road, Hamilton Road, Mikeska Road, and Franklin Street.		Waller					Waller County	Waller County		
08-52-0000001382	FM 529 at FM 359 Channel and Culvert Improvements to Bessies Creek	Channel deepening and widening, including ROW acquisition, along the main stem of Bessies Creek and Tributary #3 and associated culvert improvements at FM 529 and Schmidt Road.		Waller					Waller County	Waller County		
08-52-0000001383	Channel and Culvert Improvements to Irons Creek at FM 359 and Schmidt Road	Channel deepening and widening with detention basins, including ROW acquisition, along Irons Creek and Tributary #1 between FM 359 and Schmidt Road, and associated culvert improvements.		Waller					Waller County	Waller County		
08-52-0000001384	Rolling Hills Lake Channel and Weir Improvements	Channel deepening and widening along Gladish Creek and its tributaries, culvert improvements along FM 1736 and internal streets and weir improvements to the outflow structure.		Waller					Waller County	Waller County		
08-52-0000001385	Bell Bottom Creek Channel and Detention Improvements	Channel deepening and widening, including upstream detention basin and ROW acquisition, along Bell Bottom Creek and culvert improvements at FM 359, Royal Road, Clapp Road, and McGregor Lane.		Waller					Waller County	Waller County		
08-52-0000001386	Berry Creek Channel and Crossing Improvements and Reservoir	Crossing improvements to Sun City Blvd and Del Webb Blvd; 7400 LF of channel improvements; and a large reservoir.		Williamson					Williamson County	Williamson County		
08-52-0000001387	Willis Creek Tributary 1 Channel and Crossing Improvements	Crossing improvements to North Colorado Street and 520 LF of channel improvements.		Williamson					Williamson County	Williamson County		
08-52-0000001388	Smith's Branch Tributary 6 Channel and Crossing Improvements	Crossing improvements to Quail Valley Drive and Maple Street 815 LF of channel improvements.		Williamson					Williamson County	Williamson County		
08-52-0000001389	San Gabriel River Channel Improvements	9800 LF of channel improvements.		Williamson					Williamson County	Williamson County		

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics																
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	
08-52-0000001379	Bridge Crossing Replacement Project																	
08-52-0000001380	Channel & Culvert Improvements to Three Mile Creek near Prairie View																	
08-52-0000001381	Adams Flat Channel Improvements																	
08-52-0000001382	FM 529 at FM 359 Channel and Culvert Improvements to Bessies Creek																	
08-52-0000001383	Channel and Culvert Improvements to Irons Creek at FM 359 and Schmidt Road																	
08-52-0000001384	Rolling Hills Lake Channel and Weir Improvements																	
08-52-0000001385	Bell Bottom Creek Channel and Detention Improvements																	
08-52-0000001386	Berry Creek Channel and Crossing Improvements and Reservoir																	
08-52-0000001387	Willis Creek Tributary 1 Channel and Crossing Improvements																	
08-52-0000001388	Smith's Branch Tributary 6 Channel and Crossing Improvements																	
08-52-0000001389	San Gabriel River Channel Improvements																	

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																		
FMP ID	FMP Name	Critical facilities removed from 1% annual flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio	
08-52-0000001379	Bridge Crossing Replacement Project																	
08-52-0000001380	Channel & Culvert Improvements to Three Mile Creek near Prairie View																	
08-52-0000001381	Adams Flat Channel Improvements																	
08-52-0000001382	FM 529 at FM 359 Channel and Culvert Improvements to Bessies Creek																	
08-52-0000001383	Channel and Culvert Improvements to Irons Creek at FM 359 and Schmidt Road																	
08-52-0000001384	Rolling Hills Lake Channel and Weir Improvements																	
08-52-0000001385	Bell Bottom Creek Channel and Detention Improvements																	
08-52-0000001386	Berry Creek Channel and Crossing Improvements and Reservoir																	
08-52-0000001387	Willis Creek Tributary 1 Channel and Crossing Improvements																	
08-52-0000001388	Smith's Branch Tributary 6 Channel and Crossing Improvements																	
08-52-0000001389	San Gabriel River Channel Improvements																	

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFGP approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

General Metrics												
FMP ID	FMP Name	Description	Associated Goals (ID)	County	Watersheds	FMP Type	FMP Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)
08-52-0000001390	Brushy Creek Channel Improvements	8600 LF of channel improvements.		Williamson					Williamson County	Williamson County		
08-52-0000001391	Blockhouse Creek Regional Detention, Crossing, and Channel Improvements	Crossing improvements to US 183 and Sumac Lane, crossing removal of Peach Tree Lane, channel improvements, property acquisition, detention pond improvements, and an additional detention pond.		Williamson					Williamson County	Williamson County		

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFG approval, or TWDB funding.

Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

		Flood Risk Metrics															
FMP ID	FMP Name	Area in 1% annual chance Floodplain	Area in 0.2% annual chance Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at 1% annual flood risk	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency Facilities in 1% annual flood risk (#)	Number of low water crossing in project areas at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (Miles)	Estimated number of road closures (#)	Estimated farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk
08-52-0000001390	Brushy Creek Channel Improvements																
08-52-0000001391	Blockhouse Creek Regional Detention, Crossing, and Channel Improvements																

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Table 13 - Potentially Feasible Flood Mitigation Projects (FMPs)

Reduction in Flood Risk Metrics																	
FMP ID	FMP Name	Critical facilities removed from 1% annual Flood risk (#)	Emergency Facilities Removed in 1% annual flood risk (#)	Number of low water crossings removed in project area from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (Miles)	Estimated reduction in road closure occurrences	Estimated farm & ranch land removed from 1% annual 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	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Texas Flood SVI	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
08-52-0000001390	Brushy Creek Channel Improvements																
08-52-0000001391	Blockhouse Creek Regional Detention, Crossing, and Channel Improvements																

FMPs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-000000059	Evaluation of Flood Control Projects Phase 2	Implement design, construction, and maintenance criteria for new City-owned flood control projects; Document retrofitting/non-structural control activities on existing City-owned flood control structures	08000009	Fort Bend	08000013, 08000014	Other	31.49	Riverine	00002517	00002517	No	\$ 500,000	\$ 500,000					
08-53-000000071	Sugar Land MDP - Early Flood Warning System	Engage regional partners in developing a flood warning system.	08000016	Fort Bend	08000013, 08000014	Flood Measurement and Warning	31.49	Riverine, Coastal	00002517	00002517	No	\$ 500,000	\$ 500,000					
08-53-000000074	Sugar Land MDP - Regional Drainage & Drainage Entities	Consider establishing a single regional drainage entity to manage all aspects of drainage.	08000003	Fort Bend	08000013, 08000014	Regulatory and Guidance	31.49	Riverine, Coastal, Local	00002517	00002517	No	\$ 500,000	\$ 500,000					
08-53-000000159	Fort Bend County Prevent River Bank Erosion	Control erosion of river bank to preserve channelization.	08000009	Fort Bend	08000013, 08000014	Other	624.53	Riverine	00000009	00000009, 00002044	No	\$ 85,000						
08-53-000000160	Fort Bend County Signage for Areas that Flood Easily	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Fort Bend	08000013, 08000014	Other	624.53	Riverine, Coastal, Local	00000009	00000009, 00002044	No	\$ 50,000	\$ 5,000					
08-53-000000161	Fort Bend County High Water Barricades	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Fort Bend	08000013, 08000014	Other	624.53	Riverine, Coastal, Local	00000009	00000009, 00002044	No	\$ 50,000	\$ 5,000					
08-53-000000169	City of Cresson TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Hood	08000001	Other	4.81	Riverine, Local	00003183	00003183	No	\$ 15,000	\$ 1,500					
08-53-000000173	City of Lipan TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Hood	08000001	Other	1.04	Riverine, Local	08003224	08003224	No	\$ 50,000	\$ 5,000					
08-53-000000176	City of Tolar TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Hood	08000002	Other	1.10	Riverine, Local	08003184	08003184	No	\$ 50,000	\$ 5,000					
08-53-000000203	Develop Database of Flood Risk Information & Mapping for Erath County	Improve and consolidate baseline data.	08000006	Erath	08000001, 08000002, 08000004, 08000008	Other	1,085.48	Riverine, Local	08000169	08000169	No	\$ 1,500	\$ 1,500					
08-53-000000211	Brazos Country TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Austin	08000013	Other	1.99	Riverine, Local	08003399	08003399	No	\$ 2,000	\$ 200					

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-000000059	Evaluation of Flood Control Projects Phase 2																						0	No	No	No
08-53-000000071	Sugar Land MDP - Early Flood Warning System																						0	No	No	No
08-53-000000074	Sugar Land MDP - Regional Drainage & Drainage Entities																						0	No	No	No
08-53-000000159	Fort Bend County Prevent River Bank Erosion																						0	No	No	No
08-53-000000160	Fort Bend County Signage for Areas that Flood Easily																						0	No	No	No
08-53-000000161	Fort Bend County High Water Barricades																						0	No	No	No
08-53-000000169	City of Cresson TADD Barrier Installation																						0	No	No	No
08-53-000000173	City of Lipan TADD Barrier Installation																						0	No	No	No
08-53-000000176	City of Tolar TADD Barrier Installation																						0	No	No	No
08-53-000000203	Develop Database of Flood Risk Information & Mapping for Erath County																						0	No	No	No
08-53-000000211	Brazos Country TADD Barrier Installation																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-000000220	Bosque County TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Bosque	08000002, 08000003, 08000004	Other	998.40	Riverine, Local	08000158	08000158	No	\$ 4,000	\$ 400					
08-53-000000247	Upgrade and Install Low Water Crossings in Bell County	Improve low water crossings to reduce flooding.	08000007	Bell	08000005, 08000008, 08000009, 08000010, 08000011, 08000012	Infrastructure Projects	1,083.23	Riverine, Local	08000060	08000060	No	\$ 5,000,000						
08-53-000000254	City of Killeen Automated High-Water Warning Signs	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000016	Bell	08000008, 08000009, 08000010	Other	53.79	Riverine, Local	08003530	08003530	No	\$ 225,000	\$ 22,500					
08-53-000000260	City of Nolanville Automated High-Water Warning Signs	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000016	Bell	08000008	Other	3.50	Riverine, Local	08002883	08002883	No	\$ 15,000	\$ 1,500					
08-53-000000270	City of Salado Elevate Low Water Crossings	Improve low water crossings to reduce flooding.	08000007	Bell	08000010	Infrastructure Projects	2.09	Riverine, Local	08002431	08002431	No	\$ 5,000,000						
08-53-000000280	Hamilton County High Water Signs and Gates	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Hamilton	08000003, 08000004, 08000008, 08000009, 08000010	Other	832.88	Riverine, Local	08000140	08000140	No	\$ 100,000	\$ 10,000					
08-53-000000283	Hamilton County Upgrade Low Water Crossings	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000007	Hamilton	08000003, 08000004, 08000008, 08000009, 08000010	Infrastructure Projects	832.88	Riverine, Local	08000140	08000140	No	\$ 100,000						
08-53-000000293	Participate with Milam County Emergency Response Board	Establish plan for emergency response to expedite public response.	08000016	Milam	08000011	Other	1.35	Riverine, Local	08003035	08003035	No	\$ 500	\$ 500					
08-53-000000305	Falls County Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Falls	08000002, 08000005, 08000011	Infrastructure Projects	770.55	Riverine, Local	08000123	08000123	No	\$ 500,000						

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000000220	Bosque County TADD Barrier Installation																					0	No	No	No	
08-53-0000000247	Upgrade and Install Low Water Crossings in Bell County																						0	Yes	No	No
08-53-0000000254	City of Killeen Automated High-Water Warning Signs																						0	No	No	No
08-53-0000000260	City of Nolanville Automated High-Water Warning Signs																						0	No	No	No
08-53-0000000270	City of Salado Elevate Low Water Crossings																						0	Yes	No	No
08-53-0000000280	Hamilton County High Water Signs and Gates																						0	No	No	No
08-53-0000000283	Hamilton County Upgrade Low Water Crossings																						0	Yes	No	No
08-53-0000000293	Participate with Milam County Emergency Response Board																						0	No	No	No
08-53-0000000305	Falls County Improve & Flood Proof Critical Facilities																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000000308	City of Marlin Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Falls	08000005	Infrastructure Projects	4.61	Riverine, Local	08003039	08003039	No	\$ 500,000						
08-53-0000000309	City of Marlin Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Falls	08000005	Other	4.61	Local	08003039	08003039	No	\$ 50,000	\$ 50,000					
08-53-0000000326	City of Teague Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Freestone	08000007	Other	1.65	Riverine, Local	00002464	00002464	No	\$ 250,000						
08-53-0000000342	Hill County Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	08000002, 08000007	Infrastructure Projects	660.93	Riverine, Local	00000161	00000161	No	\$ 500,000						
08-53-0000000343	Hill County Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Hill	08000002, 08000007	Other	660.93	Local	00000161	00000161	No	\$ 120,000	\$ 120,000					
08-53-0000000345	Improve & Flood Proof Critical Facilities in City of Aquilla	Increase resiliency of critical facilities to flood events.	08000012	Hill	08000002	Infrastructure Projects	1.32	Riverine, Local	08003364	08003364	No	\$ 500,000						
08-53-0000000346	City of Aquilla Flood Warning Signs	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Hill	08000002	Other	1.32	Riverine, Local	08003364	08003364	No	\$ 7,000	\$ 700					
08-53-0000000351	City of Hillsboro Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	08000002	Infrastructure Projects	10.39	Riverine, Local	08003366	08003366	No	\$ 500,000						
08-53-0000000352	City of Hillsboro Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Hill	08000002	Other	10.39	Local	08003366	08003366	No	\$ 50,000	\$ 50,000					
08-53-0000000353	City of Itasca Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	08000002	Infrastructure Projects	1.35	Riverine, Local	00002606	00002606	No	\$ 500,000						
08-53-0000000357	City of Whitney Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	08000002	Infrastructure Projects	1.95	Riverine, Local	08002610	08002610	No	\$ 750,000						

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-000000308	City of Marlin Improve & Flood Proof Critical Facilities																					0	No	No	No	
08-53-000000309	City of Marlin Open Space Preservation Program																						0	No	No	No
08-53-000000326	City of Teague Portable Flood Pumps																						0	No	No	No
08-53-000000342	Hill County Improve & Flood Proof Critical Facilities																						0	No	No	No
08-53-000000343	Hill County Open Space Preservation Program																						0	No	No	No
08-53-000000345	Improve & Flood Proof Critical Facilities in City of Aquilla																						0	No	No	No
08-53-000000346	City of Aquilla Flood Warning Signs																						0	No	No	No
08-53-000000351	City of Hillsboro Improve & Flood Proof Critical Facilities																						0	No	No	No
08-53-000000352	City of Hillsboro Open Space Preservation Program																						0	No	No	No
08-53-000000353	City of Itasca Improve & Flood Proof Critical Facilities																						0	No	No	No
08-53-000000357	City of Whitney Improve & Flood Proof Critical Facilities																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-000000358	City of Whitney Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Hill	08000002	Other	1.95	Local	08002610	08002610	No	\$ 85,000	\$ 85,000					
08-53-000000377	City of Lampasas Low Water Crossing Signs	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Lampasas	08000010	Other	7.30	Riverine, Local	08003133	08003133	No	\$ 100,000	\$ 10,000					
08-53-000000397	City of Marquez Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Leon	08000007	Other	1.31	Riverine, Local	08003174	08003174	No	\$ 100,000						
08-53-000000402	Limestone County Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Limestone	08000002, 08000005, 08000007	Infrastructure Projects	829.68	Riverine, Local	00000137	00000137	No	\$ 500,000						
08-53-000000407	City of Kosse Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Limestone	08000005, 08000007	Infrastructure Projects	1.29	Riverine, Local	08002947	08002947	No	\$ 500,000						
08-53-000000408	City of Kosse Automated Floodgates	Implementation of automated gates to block public from areas prone to flood risk.	08000016	Limestone	08000005, 08000007	Other	1.29	Riverine, Local	08002947	08002947	No							
08-53-000000409	City of Mexia Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Limestone	08000007	Infrastructure Projects	3.72	Riverine, Local	00002948	00002948	No	\$ 500,000						
08-53-000000498	Develop Evacuation Routes for City of Bryson	Establish evacuation routes to expedite public response to flood events.	08000016	Jack	08000001	Other	1.21	Riverine, Local	08003226	08003226	No	\$ 5,000	\$ 5,000					
08-53-000000507	City of Byson TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Jack	08000001	Other	1.21	Riverine, Local	08003226	08003226	No	\$ 10,000	\$ 10,000					
08-53-000000511	Improve & Flood Proof Critical Facilities in Young County	Increase resiliency of critical facilities to flood events.	08000012	Young	08000001	Infrastructure Projects	402.38	Riverine, Local	00000185	00000185	No	\$ 1,000,000						
08-53-000000516	City of Graham Develop Evacuation Routes	Establish evacuation routes to expedite public response to flood events.	08000016	Young	08000001	Other	5.60	Riverine, Local	08003406	08003406	No	\$ 5,000	\$ 5,000					
08-53-000000519	City of Graham TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Young	08000001	Other	5.60	Riverine, Local	08003406	08003406	No	\$ 10,000	\$ 10,000					

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		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-000000358	City of Whitney Open Space Preservation Program																					0	No	No	No	
08-53-000000377	City of Lampasas Low Water Crossing Signs																						0	No	No	No
08-53-000000397	City of Marquez Portable Flood Pumps																						0	No	No	No
08-53-000000402	Limestone County Improve & Flood Proof Critical Facilities																						0	No	No	No
08-53-000000407	City of Kosse Improve & Flood Proof Critical Facilities																						0	No	No	No
08-53-000000408	City of Kosse Automated Floodgates																						0	No	No	No
08-53-000000409	City of Mexia Improve & Flood Proof Critical Facilities																						0	No	No	No
08-53-000000498	Develop Evacuation Routes for City of Bryson																						0	No	No	No
08-53-000000507	City of Byson TADD Promotion																						0	No	No	No
08-53-000000511	Improve & Flood Proof Critical Facilities in Young County																						0	No	No	No
08-53-000000516	City of Graham Develop Evacuation Routes																						0	No	No	No
08-53-000000519	City of Graham TADD Promotion																						0	No	No	No

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General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000000521	City of Graham Flood Proof Sewage Treatment Plan	Increase resiliency of critical facilities to flood events.	08000012	Young	08000001	Infrastructure Projects	5.50	Riverine, Local	08003406	08003406	No	\$ 250,000						
08-53-0000000522	City of Graham Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Young	08000001	Other	5.50		08003406	08003406	No	\$ 1,000,000	\$ 1,000,000					
08-53-0000000529	City of Olney Develop Evacuation Routes	Establish evacuation routes to expedite public response to flood events.	08000016	Young	08000001	Other	1.93	Riverine, Local	08003407	08003407	No	\$ 5,000	\$ 5,000					
08-53-0000000530	City of Olney Watertight Covers and Inflow Guard Implementation	Implementation of floodproofing features to increase resiliency of structure to flood events.	08000009	Young	08000001	Infrastructure Projects	2.02	Riverine, Local	08003407	08003407	No	\$ 100,000						
08-53-0000000537	City of Olney Add Vegetation to River Banks	Control erosion of river bank to preserve channelization.	08000009	Young	08000001	Other	2.02	Riverine	08003407	08003407	No	\$ 20,000						
08-53-0000000543	City of Olney TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Young	08000001	Other	2.02	Riverine, Local	08003407	08003407	No	\$ 10,000	\$ 10,000					
08-53-0000000546	City of Olney Maintain Natural Vegetation in Channels	Control erosion of banks to preserve channelization.	08000009	Young	08000001	Other	2.02	Riverine	08003407	08003407	No	\$ 3,000,000						
08-53-0000000548	City of Olney Flood Proof Sewage Treatment Plan	Establish evacuation routes to expedite public response to flood events.	08000012	Young	08000001	Infrastructure Projects	1.93	Riverine, Local	08003407	08003407	No	\$ 250,000						
08-53-0000000550	City of Olney Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Young	08000001	Other	2.02		08003407	08003407	No	\$ 1,000,000	\$ 1,000,000					
08-53-0000000554	Robertson County Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	08000005, 08000007	Other	861.69	Riverine, Local	08000063	08000063	No	\$ 250,000						
08-53-0000000561	City of Calvert Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	08000005	Other	3.87	Riverine, Local	08003416	08003416	No	\$ 250,000						

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		Flood Risk Metrics							Reduction in Flood Risk Metrics																
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
08-53-000000521	City of Graham Flood Proof Sewage Treatment Plan																					0	No	No	No
08-53-000000522	City of Graham Open Space Preservation Program																					0	No	No	No
08-53-000000529	City of Olney Develop Evacuation Routes																					0	No	No	No
08-53-000000530	City of Olney Watertight Covers and Inflow Guard Implementation																					0	No	No	No
08-53-000000537	City of Olney Add Vegetation to River Banks																					0	No	No	No
08-53-000000543	City of Olney TADD Promotion																					0	No	No	No
08-53-000000546	City of Olney Maintain Natural Vegetation in Channels																					0	No	No	No
08-53-000000548	City of Olney Flood Proof Sewage Treatment Plan																					0	No	No	No
08-53-000000550	City of Olney Open Space Preservation Program																					0	No	No	No
08-53-000000554	Robertson County Portable Flood Pumps																					0	No	No	No
08-53-000000561	City of Calvert Portable Flood Pumps																					0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																	
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk
08-53-000000569	City of Hearne Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	08000005	Other	4.11	Riverine, Local	08002399	08002399	No	\$ 250,000					
08-53-000000592	High Water Barricades on Meyersville Rd	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	08000005, 08000006, 08000013	Other	615.98	Riverine, Local	00000029	00000029	No	\$ 100,000	\$ 10,000				
08-53-000000593	High Water Barricades on County Roads	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	08000005, 08000006, 08000013	Other	615.98	Riverine, Local	00000029	00000029	No	\$ 30,000	\$ 3,000				
08-53-000000594	High Water Barricades on Winedale Road	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	08000005, 08000006, 08000013	Other	615.98	Riverine, Local	00000029	00000029	No	\$ 100,000	\$ 10,000				
08-53-000000595	High Water Barricades on Jeske Road	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	08000005, 08000006, 08000013	Other	615.98	Riverine, Local	00000029	00000029	No	\$ 100,000	\$ 10,000				
08-53-000000599	City of Brenham Low Water Crossing Improvements	Drainage feature improvements to increase capacity and ensure they are within standards.	08000009	Washington	08000005, 08000013	Infrastructure Projects	12.98	Riverine, Local	08003424	08003424	No	\$ 2,000,000					
08-53-000000631	Fort Bend County Early Flood Warning System	Installation of a flood monitoring system.	08000015	Fort Bend	08000013, 08000014	Flood Measurement and Warning	624.53	Riverine, Local	00000009	00000009, 00002044	No						
08-53-000000645	Williamson County Early Flood Warning System	Installation of a flood monitoring system.	08000016	Williamson	08000006, 08000010, 08000011, 08000012	Flood Measurement and Warning	1,120.23	Riverine, Local	00000043	00000043	No						
08-53-000000857	Project Brazos	Stabilization efforts for 11 identified locations along the Brazos River throughout Fort Bend County	08000009	Fort Bend	08000013, 08000014	Infrastructure Projects	624.53	Riverine	00000009	00000009, 00002044	No	\$ 360,000,000	\$ 100,000				
08-53-000000928	City of Georgetown Lift Station Floodproofing	Flood proof city lift stations and manholes located in the SFHA.	08000012	Williamson	08000012	Infrastructure Projects	59.39	Riverine, Local	08002580	08002580	No	\$ 500,000	\$ 500,000				
08-53-000000933	City of Hutto Acquire Flood Prone Land	Dedicate acquired, undeveloped land to open space areas to prevent development.	08000009	Williamson	08000012	Other	12.16	Riverine, Local	08002577	08002577	No	\$ 1,000,000	\$ 1,000,000				

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
08-53-000000569	City of Hearne Portable Flood Pumps																					0	No	No	No
08-53-000000592	High Water Barricades on Meyersville Rd																					0	No	No	No
08-53-000000593	High Water Barricades on County Roads																					0	No	No	No
08-53-000000594	High Water Barricades on Winedale Road																					0	No	No	No
08-53-000000595	High Water Barricades on Jeske Road																					0	No	No	No
08-53-000000599	City of Brenham Low Water Crossing Improvements																					0	Yes	No	No
08-53-000000631	Fort Bend County Early Flood Warning System																					0	No	No	No
08-53-000000645	Williamson County Early Flood Warning System																					0	No	No	No
08-53-000000857	Project Brazos																					50	No	No	No
08-53-000000928	City of Georgetown Lift Station Floodproofing																					0	No	No	No
08-53-000000933	City of Hutto Acquire Flood Prone Land																					100	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																	
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk
08-53-000000938	City of Leander Automated Barriers	Install low water crossing automated barriers and warning signs.	08000007	Williamson	08000012	Other	27.95	Riverine, Local	00003457	00003457	No	\$ 500,000	\$ 500,000				
08-53-0000001024	City of Bryan Channel Maintenance Program Funding	Clearing of channels throughout the City to remove vegetation inhibiting the channels capacity.	08000003	Brazos	08000005, 08000007	Infrastructure Projects	45.11	Riverine	08003438	08003438	No						
08-53-0000001071	Austin County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Austin	08000013	Regulatory and Guidance	502.37	Riverine, Local	00000018	00000018	No	\$ 400,000	\$ 400,000				
08-53-0000001073	Bell County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Bell	08000005, 08000008, 08000009, 08000010, 08000011, 08000012	Regulatory and Guidance	1,083.23	Riverine, Local	08000060	08000060	No	\$ 400,000	\$ 400,000				
08-53-0000001074	Bosque County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Bosque	08000002, 08000003, 08000004	Regulatory and Guidance	998.40	Riverine, Local	08000158	08000158	No	\$ 400,000	\$ 400,000				
08-53-0000001076	Brazos County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Brazos	08000005, 08000007	Regulatory and Guidance	588.79	Riverine, Local	08000048	08000048	No	\$ 400,000	\$ 400,000				
08-53-0000001078	Burleson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Burleson	08000005, 08000006	Regulatory and Guidance	674.06	Riverine, Local	08000042	08000042	No	\$ 400,000	\$ 400,000				

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-000000938	City of Leander Automated Barriers																					0	No	No	No	
08-53-0000001024	City of Bryan Channel Maintenance Program Funding																						0	No	No	No
08-53-0000001071	Austin County Regulatory Updates																						0	No	No	No
08-53-0000001073	Bell County Regulatory Updates																						0	No	No	No
08-53-0000001074	Bosque County Regulatory Updates																						0	No	No	No
08-53-0000001076	Brazos County Regulatory Updates																						0	No	No	No
08-53-0000001078	Burleson County Regulatory Updates																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001081	Comanche County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Comanche	08000008, 08000009	Regulatory and Guidance	913.74	Riverine, Local	00000160	00000160	No	\$ 400,000	\$ 400,000					
08-53-0000001082	Coryell County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Coryell	08000003, 08000004, 08000008, 08000009, 08000010	Regulatory and Guidance	1,052.27	Riverine, Local	08000133	08000133	No	\$ 400,000	\$ 400,000					
08-53-0000001083	Eastland County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Eastland	08000001, 08000008	Regulatory and Guidance	766.69	Riverine, Local	00000167	00000167	No	\$ 400,000	\$ 400,000					
08-53-0000001084	Erath County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Erath	08000001, 08000002, 08000004, 08000008	Regulatory and Guidance	1,085.48	Riverine, Local	08000169	08000169	No	\$ 400,000	\$ 400,000					
08-53-0000001085	Falls County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Falls	08000002, 08000005, 08000011	Regulatory and Guidance	770.55	Riverine, Local	08000123	08000123	No	\$ 400,000	\$ 400,000					
08-53-0000001090	Grimes County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Grimes	08000005, 08000007	Regulatory and Guidance	463.78	Riverine, Local	00000044	00000044	No	\$ 400,000	\$ 400,000					
08-53-0000001091	Hamilton County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Hamilton	08000003, 08000004, 08000008, 08000009, 08000010	Regulatory and Guidance	832.88	Riverine, Local	08000140	08000140	No	\$ 400,000	\$ 400,000					

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
08-53-0000001081	Comanche County Regulatory Updates																					0	No	No	No
08-53-0000001082	Coryell County Regulatory Updates																					0	No	No	No
08-53-0000001083	Eastland County Regulatory Updates																					0	No	No	No
08-53-0000001084	Erath County Regulatory Updates																					0	No	No	No
08-53-0000001085	Falls County Regulatory Updates																					0	No	No	No
08-53-0000001090	Grimes County Regulatory Updates																					0	No	No	No
08-53-0000001091	Hamilton County Regulatory Updates																					0	No	No	No

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General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001092	Hill County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Hill	08000002, 08000007	Regulatory and Guidance	660.93	Riverine, Local	00000161	00000161	No	\$ 400,000	\$ 400,000					
08-53-0000001093	Hood County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Hood	08000001, 08000002	Regulatory and Guidance	431.82	Riverine, Local	00000103	00000103	No	\$ 400,000	\$ 400,000					
08-53-0000001095	Johnson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Johnson	08000001, 08000002	Regulatory and Guidance	368.85	Riverine, Local	00000104	00000104	No	\$ 400,000	\$ 400,000					
08-53-0000001096	Lampasas County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Lampasas	08000009, 08000010	Regulatory and Guidance	564.25	Riverine, Local	00000064	00000064	No	\$ 400,000	\$ 400,000					
08-53-0000001097	Lee County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Lee	08000006	Regulatory and Guidance	529.68	Riverine, Local	00000032	00000032	No	\$ 400,000	\$ 400,000					
08-53-0000001099	Limestone County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Limestone	08000002, 08000005, 08000007	Regulatory and Guidance	829.68	Riverine, Local	00000137	00000137	No	\$ 400,000	\$ 400,000					

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001092	Hill County Regulatory Updates																					0	No	No	No	
08-53-0000001093	Hood County Regulatory Updates																						0	No	No	No
08-53-0000001095	Johnson County Regulatory Updates																						0	No	No	No
08-53-0000001096	Lampasas County Regulatory Updates																						0	No	No	No
08-53-0000001097	Lee County Regulatory Updates																						0	No	No	No
08-53-0000001099	Limestone County Regulatory Updates																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001101	McLennan County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	McLennan	08000002, 08000003, 08000004, 08000005, 08000008, 08000011	Regulatory and Guidance	1,055.75	Riverine, Local	08000138	08000138	No	\$ 400,000	\$ 400,000					
08-53-0000001102	Milam County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Milam	08000005, 08000006, 08000011, 08000012	Regulatory and Guidance	1,017.50	Riverine, Local	08000054	08000054	No	\$ 400,000	\$ 400,000					
08-53-0000001104	Palo Pinto County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Palo Pinto	08000001	Regulatory and Guidance	981.97	Riverine, Local	08000121	08000121	No	\$ 400,000	\$ 400,000					
08-53-0000001106	Robertson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Robertson	08000005, 08000007	Regulatory and Guidance	861.69	Riverine, Local	08000063	08000063	No	\$ 400,000	\$ 400,000					
08-53-0000001107	Somervell County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Somervell	08000001, 08000002, 08000004	Regulatory and Guidance	191.19	Riverine, Local	08000162	08000162	No	\$ 400,000	\$ 400,000					
08-53-0000001109	Waller County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Waller	08000005, 08000013, 08000014	Regulatory and Guidance	321.00	Riverine, Local	00000024	00000024	No	\$ 400,000	\$ 400,000					

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001101	McLennan County Regulatory Updates																					0	No	No	No	
08-53-0000001102	Milam County Regulatory Updates																						0	No	No	No
08-53-0000001104	Palo Pinto County Regulatory Updates																						0	No	No	No
08-53-0000001106	Robertson County Regulatory Updates																						0	No	No	No
08-53-0000001107	Somervell County Regulatory Updates																						0	No	No	No
08-53-0000001109	Waller County Regulatory Updates																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001110	Washington County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Washington	08000005, 08000006, 08000013	Regulatory and Guidance	615.98	Riverine, Local	00000029	00000029	No	\$ 400,000	\$ 400,000					
08-53-0000001111	Williamson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Williamson	08000006, 08000010, 08000011, 08000012	Regulatory and Guidance	1,120.23	Riverine, Local	00000043	00000043	No	\$ 400,000	\$ 400,000					
08-53-0000001112	Young County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Young	08000001	Regulatory and Guidance	402.38	Riverine, Local	00000185	00000185	No	\$ 400,000						
08-53-0000001113	City of College Station Early Flood Warning System	Implement system to monitor flood waters, notify public officials of flooded roadways, and trigger automatic warnings for road users.	08000019	Brazos	08000005, 08000007	Flood Measurement and Warning	50.62	Riverine	08003439	08003439	No	\$ 500,000	\$ 500,000					
08-53-0000001114	City of Bryan Early Flood Warning System	Implement system to monitor flood waters.	08000019	Brazos	08000005, 08000007	Flood Measurement and Warning	45.11	Riverine	08003438	08003438	No							
08-53-0000001116	Bell Early Flood Warning System	Acquire and install early warning system for dam failure.	08000019	Bell	08000005, 08000008, 08000009, 08000010, 08000011, 08000012	Flood Measurement and Warning	1,083.23	Riverine	08000060	08000060	No							
08-53-0000001118	Bosque Early Flood Warning System	Identify sites where stream and rain gages need to be added or upgraded.	08000019	Bosque	08000002, 08000003, 08000004	Flood Measurement and Warning	998.40	Riverine	08000158	08000158	No							
08-53-0000001119	Comanche Early Flood Warning System	Install early warning system for flood hazard events.	08000019	Comanche	08000008, 08000009	Flood Measurement and Warning	913.74	Riverine	00000160	00000160	No							

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001110	Washington County Regulatory Updates																					0	No	No	No	
08-53-0000001111	Williamson County Regulatory Updates																						0	No	No	No
08-53-0000001112	Young County Regulatory Updates																						0	No	No	No
08-53-0000001113	City of College Station Early Flood Warning System																						0	No	No	No
08-53-0000001114	City of Bryan Early Flood Warning System																						0	No	No	No
08-53-0000001116	Bell Early Flood Warning System																						0	No	No	No
08-53-0000001118	Bosque Early Flood Warning System																						0	No	No	No
08-53-0000001119	Comanche Early Flood Warning System																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001120	Erath Early Flood Warning System	Implement a mass notification system to provide flood warnings to residents.	08000019	Erath	08000001, 08000002, 08000004, 08000008	Flood Measurement and Warning	1,085.48	Riverine	08000169	08000169	No							
08-53-0000001121	Hamilton Early Flood Warning System	Install flood gages in flood prone areas.	08000019	Hamilton	08000003, 08000004, 08000008, 08000009, 08000010	Flood Measurement and Warning	832.88	Riverine	08000140	08000140	No							
08-53-0000001122	McLennan Early Flood Warning System	Implement system to monitor flood waters.	08000019	McLennan	08000002, 08000003, 08000004, 08000005, 08000008, 08000011	Flood Measurement and Warning	1,055.75	Riverine	08000138	08000138	No							
08-53-0000001123	Waller Early Flood Warning System	Install flood gages to monitor flood waters.	08000019	Waller	08000005, 08000013, 08000014	Flood Measurement and Warning	321.00	Riverine	00000024	00000024	No							
08-53-0000001124	Regional Public Awareness Program	Increase awareness of flood risk and hazards.	08000020		08000001, 08000002, 08000003, 08000004, 08000005, 08000006, 08000007, 08000008, 08000009, 08000010, 08000011, 08000012, 08000013, 08000014	Education and Outreach	23,357.30	Riverine, Local	08000000	08000000	No							

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001120	Erath Early Flood Warning System																					0	No	No	No	
08-53-0000001121	Hamilton Early Flood Warning System																						0	No	No	No
08-53-0000001122	McLennan Early Flood Warning System																						0	No	No	No
08-53-0000001123	Waller Early Flood Warning System																						0	No	No	No
08-53-0000001124	Regional Public Awareness Program																						0	No	No	No

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																	
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk
08-53-0000001125	Brazos Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Brazos	08000005, 08000007	Property Acquisition and Structural Elevation	588.79	Riverine, Local	08000048	08000048	No						
08-53-0000001126	Bell Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Bell	08000005, 08000008, 08000009, 08000010, 08000011, 08000012	Property Acquisition and Structural Elevation	1,083.23	Riverine, Local	08000060	08000060	No						
08-53-0000001127	Grimes Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Grimes	08000005, 08000007	Property Acquisition and Structural Elevation	463.78	Riverine, Local	00000044	00000044	No						
08-53-0000001128	Hill Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Hill	08000002, 08000007	Property Acquisition and Structural Elevation	660.93	Riverine, Local	00000161	00000161	No						
08-53-0000001129	Lee Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Lee	08000006	Property Acquisition and Structural Elevation	529.68	Riverine, Local	00000032	00000032	No						
08-53-0000001130	McLennan Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	McLennan	08000002, 08000003, 08000004, 08000005, 08000008, 08000011	Property Acquisition and Structural Elevation	1,055.75	Riverine, Local	08000138	08000138	No						

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001125	Brazos Property Acquisition																					0	No	No	No	
08-53-0000001126	Bell Property Acquisition																						0	No	No	No
08-53-0000001127	Grimes Property Acquisition																						0	No	No	No
08-53-0000001128	Hill Property Acquisition																						0	No	No	No
08-53-0000001129	Lee Property Acquisition																						0	No	No	No
08-53-0000001130	McLennan Property Acquisition																						0	No	No	No

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFGP approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001131	Waller Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Waller	08000005, 08000013, 08000014	Property Acquisition and Structural Elevation	321.00	Riverine, Local	00000024	00000024	No							
08-53-0000001132	Washington Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Washington	08000005, 08000006, 08000013	Property Acquisition and Structural Elevation	615.98	Riverine, Local	00000029	00000029	No							
08-53-0000001134	Lee Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Lee	08000006	Property Acquisition and Structural Elevation	529.68	Riverine, Local	00000032	00000032	No							
08-53-0000001135	Burleson Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Burleson	08000005, 08000006	Property Acquisition and Structural Elevation	674.06	Riverine, Local	08000042	08000042	No							
08-53-0000001136	Williamson Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Williamson	08000006, 08000010, 08000011, 08000012	Property Acquisition and Structural Elevation	1,120.23	Riverine, Local	00000043	00000043	No							
08-53-0000001137	Young Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Young	08000001	Property Acquisition and Structural Elevation	402.38	Riverine, Local	00000185	00000185	No							
08-53-0000001139	City of Bryan Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Brazos	08000005, 08000007	Property Acquisition and Structural Elevation	45.11	Riverine, Local	08003438	08003438	No	\$ 1,000,000	\$ 1,000,000					

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001131	Waller Property Acquisition																					0	No	No	No	
08-53-0000001132	Washington Property Acquisition																						0	No	No	No
08-53-0000001134	Lee Property Acquisition																						0	No	No	No
08-53-0000001135	Burleson Property Acquisition																						0	No	No	No
08-53-0000001136	Williamson Property Acquisition																						0	No	No	No
08-53-0000001137	Young Property Acquisition																						0	No	No	No
08-53-0000001139	City of Bryan Property Acquisition																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																	
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk
08-53-0000001140	City of College Station Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Brazos	08000005, 08000007	Property Acquisition and Structural Elevation	50.62	Riverine, Local	08003439	08003439	No	\$ 1,000,000	\$ 1,000,000				
08-53-0000001141	City of Georgetown Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Williamson	08000012	Property Acquisition and Structural Elevation	48.08	Riverine, Local	08002580	08002580	No						
08-53-0000001142	City of Leander Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Williamson	08000012	Property Acquisition and Structural Elevation	21.43	Riverine, Local	00003457	00003457	No						
08-53-0000001143	City of Waco Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	McLennan	08000002, 08000003, 08000004, 08000005	Property Acquisition and Structural Elevation	100.21	Riverine, Local	08002914	08002914	No	\$ 1,400,000	\$ 1,400,000				
08-53-0000001304	Lower Brazos Additional Gauges	Final assessment of placement and constructability of recommended gauges from preliminary analysis. Coordination between entities to integrate gauges into USGS system.	08000020		08000001, 08000002, 08000003, 08000004, 08000005, 08000006, 08000007, 08000008, 08000009, 08000010, 08000011, 08000012, 08000013, 08000014	Flood Measurement and Warning	23,357.30	Riverine, Local	08000000	08000000	No	\$ 150,000	\$ 150,000				

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001140	City of College Station Property Acquisition																					0	No	No	No	
08-53-0000001141	City of Georgetown Property Acquisition																						0	No	No	No
08-53-0000001142	City of Leander Property Acquisition																						0	No	No	No
08-53-0000001143	City of Waco Property Acquisition																						0	No	No	No
08-53-0000001304	Lower Brazos Additional Gauges																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001305	Lower Brazos Flood Warning Portal	Development of interface to incorporate regional and local data system information for public use in the Lower Brazos Region.	08000020		08000001, 08000002, 08000003, 08000004, 08000005, 08000006, 08000007, 08000008, 08000009, 08000010, 08000011, 08000012, 08000013, 08000014	Flood Measurement and Warning	23,357.30	Riverine, Local	08000000	08000000	No	\$ 200,000	\$ 200,000					
08-53-0000001306	EWS Implementation Study and Installation Gages and Repeater	Study to determine optimal placement of gages and repeater within the County. Includes coordination with Harris County Flood Control District to integrate proposed gages into their early flood warning system.	08000016	Grimes	08000005, 08000007	Flood Measurement and Warning	798.87	Riverine	00000044	00000044	No	\$ 200,000	\$ 200,000					
08-53-0000001307	Grimes County Property Acquisition	Property acquisition program for structures located in Zone A areas, areas of known flooding, and dam inundation areas to prevent repetitive losses.	08000009	Grimes	08000005, 08000007	Infrastructure Projects	798.87	Riverine	00000044	00000044	Yes	\$ 350,000	\$ 350,000					
08-53-0000001308	City of Killeen Flood-Prone/Repetitive Loss Properties	Acquire homes and properties in flood-prone areas to reduce loss of property and life in the event of a flood. This project will contribute to the elimination of flood risk damages to high-risk structures and prevent future losses in flood hazard areas.	08000009	Bell,Coryel	08000008, 08000009, 08000010	Property Acquisition and Structural Elevation	55.27	Riverine	08003530	08003530	Yes	\$ 1,000,000	\$ 1,000,000					

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001305	Lower Brazos Flood Warning Portal																					0	No	No	No	
08-53-0000001306	EWS Implementation Study and Installation Gages and Repeater																						0	No	No	No
08-53-0000001307	Grimes County Property Acquisition																						0	No	No	No
08-53-0000001308	City of Killeen Flood-Prone/Repetitive Loss Properties																						0	No	No	No

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001309	Brazos County Drainage Criteria Manual Development	Creation and adoption of a county drainage criteria manual.	08000001, 08000003	Brazos	08000005, 08000006, 08000007	Regulatory and Guidance	587.92	Riverine	08000048	08000048	No	\$ 350,000	\$ 350,000					
08-53-0000001310	Brazos County Early Flood Warning System	Development of an early flood warning system for Brazos County including identification of potential gauge placements, development of any necessary software and GUI to monitor risk at gauged locations, and incorporation with County's existing systems.	08000016	Brazos	08000005, 08000006, 08000007	Flood Measurement and Warning	587.92	Riverine	08000048	08000048	No	\$ 500,000	\$ 500,000					
08-53-0000001311	Regrading and Clear Out of College Station Creeks	Assessment and performance of potential impacts and benefits associated with the recovery of creek capacity through sedimentation removal and similar efforts.	08000009	Brazos	08000005, 08000007	Infrastructure Projects	51.09	Riverine	08003439	08003439	No	\$ 500,000	\$ 500,000					
08-53-0000001312	College Station Drainage Criteria Update	Update to reflect latest data, industry practices, and technology advancements. Including a detailed assessment of the functionality of existing detention facilities in the city and any potential improvements to the regulation of detention pond design.	08000001, 08000003	Brazos	08000005, 08000007	Regulatory and Guidance	51.09	Riverine	08003439	08003439	No	\$ 350,000	\$ 350,000					
08-53-0000001313	City of Killeen Stream Gauge Installation - Emergency Management	Install stream gauges at multiple locations along the Little Nolan and South Nolan Creeks. Gauges would be used to monitor water levels and start the development of a city-wide flood alert system to assist emergency management decisions.	08000016	Bell,Coryel	08000008, 08000009, 08000010	Flood Measurement and Warning	113.38	Riverine	08003530	08003530	No	\$ 500,000	\$ 500,000					
08-53-0000001314	Cedar Park Drainage Infrastructure Assessment	City-wide inventory and assessment of drainage related infrastructure.	08000013	Travis,Will	08000012	Other	25.60	Riverine	00003454	00003454	No	\$ 500,000	\$ 500,000					

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Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001309	Brazos County Drainage Criteria Manual Development																					0	No	No	No	
08-53-0000001310	Brazos County Early Flood Warning System																						0	No	No	No
08-53-0000001311	Regrading and Clear Out of College Station Creeks																						0	No	No	No
08-53-0000001312	College Station Drainage Criteria Update																						0	No	No	No
08-53-0000001313	City of Killeen Stream Gauge Installation - Emergency Management																						0	No	No	No
08-53-0000001314	Cedar Park Drainage Infrastructure Assessment																						0	No	No	No

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																	
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk
08-53-0000001315	Cedar Park Property Acquisition	Property acquisition program with a prioritization of residential structures in the FEMA regulatory floodway and floodplain.	08000009	Travis,Will	08000012	Property Acquisition and Structural Elevation	25.60	Riverine	00003454	00003454	Yes	\$ 1,000,000	\$ 1,000,000				
08-53-0000001316	Cedar Park Drainage Criteria Manual	Creation and adoption of a drainage criteria manual for the City of Cedar Park.	08000001, 08000003	Travis,Will	08000012	Regulatory and Guidance	25.60	Riverine	00003454	00003454	No	\$ 350,000	\$ 350,000				
08-53-0000001317	Cedar Park Outreach and Education Program	Development of interactive stormwater models and virtual education programs to inform public of flood related risk.	08000019	Travis,Will	08000012	Education and Outreach	25.60	Riverine	00003454	00003454	No	\$ 500,000	\$ 500,000				
08-53-0000001318	Cedar Park Early Flood Warning System	Development of an early flood warning system for City of Cedar Park including identification of potential gauge placements, development of necessary software and GUI to monitor risk at gauged locations, and incorporation with existing systems.	08000016	Travis,Will	08000012	Flood Measurement and Warning	25.60	Riverine	00003454	00003454	No	\$ 500,000	\$ 500,000				
08-53-0000001319	City of Round Rock Regional Stormwater Management Program Fee Study	Develop a fee calculation method to correlate pond construction and land costs with development impervious cover and land area. Develop recommendations for cost indices to update the fees on an annual basis in the City's Annual Fee Ordinance.	08000001, 08000003	Travis,Will	08000012	Regulatory and Guidance	37.84	Riverine	00003191	00003191	No	\$ 250,000	\$ 250,000				
08-53-0000001320	Community Rating System Application	Prepare and submit City's CRS application.	08000001, 08000003	McLennan	08000002, 08000003, 08000004, 08000005	Regulatory and Guidance	100.72	Riverine	08002914	08002914	No	\$ 300,000	\$ 300,000				
08-53-0000001321	Open Channel System Inventory and Assessment	Map, catalog and assess the City's open channel systems to assist creation of a recurring open channel maintenance plan.	08000013	McLennan	08000002, 08000003, 08000004, 08000005	Infrastructure Projects	100.72	Riverine	08002914	08002914	No	\$ 400,000	\$ 400,000				

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
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08-53-0000001315	Cedar Park Property Acquisition																					0	No	No	No	
08-53-0000001316	Cedar Park Drainage Criteria Manual																						0	No	No	No
08-53-0000001317	Cedar Park Outreach and Education Program																						0	No	No	No
08-53-0000001318	Cedar Park Early Flood Warning System																						0	No	No	No
08-53-0000001319	City of Round Rock Regional Stormwater Management Program Fee Study																						0	No	No	No
08-53-0000001320	Community Rating System Application																						0	No	No	No
08-53-0000001321	Open Channel System Inventory and Assessment																						0	No	No	No

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

General Metrics																		
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Watershed Name	FMS Type	FMS Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Non-recurring, Non-capital Cost (\$)	Area in 1% annual Flood risk	Area in 0.2% annual Flood Risk	Estimated number of structures at 1% annual flood risk	Residential structures at 1% annual flood risk	
08-53-0000001322	Ordinance Development for a Voluntary Buyout Program	Ordinance creation to establish a Voluntary Buyout Program.	08000009	McLennan	08000002, 08000003, 08000004, 08000005	Regulatory and Guidance	100.72	Riverine	08002914	08002914	Yes	\$ 150,000	\$ 150,000					
08-53-0000001323	Williamson County Drainage Criteria Manual	Update of the County drainage criteria manual, including an assessment of guidelines pertaining to regional detention.	08000001, 08000003	Williamson	08000006, 08000010, 08000011, 08000012	Regulatory and Guidance	1,131.48	Riverine	00000043	00000043	No	\$ 350,000	\$ 350,000					
08-53-0000001324	Urban Storm System Assessment and Mapping	Assessment (includes cleaning and CCTV video) of the City's downtown urban storm system will allow evaluation and prioritization of storm infrastructure needs.	08000013	McLennan	08000002	Infrastructure Projects	1.18	Riverine	08002914	08002914	No	\$ 1,800,000	\$ 1,800,000					
08-53-0000001325	City of Bryan - Flood Early Warning System ("B-FEWS") Phase 2	Gauging improvements and upgrades (software and hardware) to the existing flood early warning system with the potential for additional sensors in newly identified areas of need.	08000016	Brazos	08000005, 08000007	Flood Measurement and Warning	54.03	Riverine	08003438	08003438	No	\$ 350,000	\$ 350,000					
08-53-0000001326	Parker County Flood Buyouts	Buyouts of properties that frequently flood in the Brazos Watershed		Parker					Parker County	Parker County								
08-53-0000001327	Parker County FEWS	Implement sirens (FEWS) along the Brazos River through Parker County		Parker					Parker County	Parker County								

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFPG approval, or TWDB funding.

Table 14 - Potentially Feasible Flood Management Strategies (FMSs)

		Flood Risk Metrics							Reduction in Flood Risk Metrics																	
FMS ID	FMS Name	Estimated Population at 1% annual flood risk	Critical facilities at 1% annual flood risk (#)	Emergency facilities at 1% annual flood risk (#)	Number of low water crossings in project area at 1% annual flood risk (#)	Estimated length of roads at 1% annual flood risk (miles)	Estimated number of road closures (#)	Estimated active farm & ranch land at 1% annual flood risk (acres)	Number of structures with reduced 1% annual Flood risk	Number of structures removed from 1% annual Flood risk	Number of structures removed from 0.2% annual Flood risk	Residential structures removed from 1% annual Flood risk	Estimated Population removed from 1% annual Flood risk	Critical facilities removed from 1% annual Flood risk (#)	Number of low water crossings removed from 1% annual Flood risk (#)	Estimated length of roads removed from 1% annual flood risk (miles)	Estimated reduction in road closure occurrences	Estimated active farm & ranch land removed from 1% annual flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/ Structure removed	Percent Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	
08-53-0000001322	Ordinance Development for a Voluntary Buyout Program																					0	No	No	No	
08-53-0000001323	Williamson County Drainage Criteria Manual																						0	No	No	No
08-53-0000001324	Urban Storm System Assessment and Mapping																						0	No	No	No
08-53-0000001325	City of Bryan - Flood Early Warning System ("B-FEWS") Phase 2																						0	No	No	No
08-53-0000001326	Parker County Flood Buyouts																									
08-53-0000001327	Parker County FEWS																									

FMSs will continue to be evaluated for feasibility, general metrics, and flood related metrics. Inclusion in this list does not guarantee RFGP approval, or TWDB funding.

List of Infeasible FMXs

FMX Name	FMX Description	FMX Area	Reason for Infeasibility
Oyster Creek Wastewater Treatment Plant Improvements	Floodproofing of wastewater treatment plant.	0.01	FMX service area is less than one square mile.
Lake Leon Dam Safety Improvements	Stabilization of the upstream embankment and rehabilitation of the spillway.	0.02	FMX service area is less than one square mile.
Southwest Pkwy Crossing Trib B.1	Update design to account for Atlas 14 rainfall.	0.13	FMX service area is less than one square mile.
Erosion Master Plans: Briar Creek at Bob Bond Park	Study to determine erosion solutions along Briar Creek.	0.14	FMX service area is less than one square mile.
Lakes of Austin Park Drainage Improvements	Upsize storm water systems and inlets.	0.16	FMX service area is less than one square mile.
Southwest Pkwy Crossing Trib B.2	Update design to account for Atlas 14 rainfall.	0.18	FMX service area is less than one square mile.
Sprucewood Street Flooding	A study of the Sprucewood Street drainage and a detailed design phase is needed to assess existing flooding and propose improvements that will reduce flooding in the area. This project includes the local analysis to determine the cause of flooding and *	0.19	FMX service area is less than one square mile.
Riverbend North Drainage improvements	Upsize storm water system and inlets in Riverbend North.	0.20	FMX service area is less than one square mile.
Christina Circle Drainage Improvements	Re-grading of cul-de-sac to improve drainage and replacement of existing flume.	0.24	FMX service area is less than one square mile.
Crow St/Long St Drainage Improvements	Update design to account for Atlas 14 rainfall.	0.24	FMX service area is less than one square mile.
Southwest Pkwy Crossing Trib B.2.1	Update design to account for Atlas 14 rainfall.	0.24	FMX service area is less than one square mile.
Monarch Dr Drainage Improvements	Upsize storm water system south of Commonwealth Blvd.	0.26	FMX service area is less than one square mile.
Tarleton St/Rowland Ave Drainage Improvements Ph 1&2	Update design to account for Atlas 14 rainfall.	0.29	FMX service area is less than one square mile.
Channel Upstream of Welsh	Update design to account for Atlas 14 rainfall.	0.29	FMX service area is less than one square mile.
Imperial Woods/Lynnwood Lane Drainage Improvements	Upsize water system and inlet replacement along Woodchester, Lynnwood, Oakwood, and Fernhill.	0.32	FMX service area is less than one square mile.
Rowland Ave/Frey St Drainage Improvements	Update design to account for Atlas 14 rainfall.	0.33	FMX service area is less than one square mile.
Storm Sewer at UPRR Rail and 31st Street	Design of improvements to storm sewer to increase capacity under the identified crossing.	0.36	FMX service area is less than one square mile.
Brushy Creek Stabilization	Use toe blocks and re-establish riparian vegetation zone to stabilize 1200 feet of stream banks.	0.44	FMX service area is less than one square mile.
Downtown Storm Sewer Improvements to Still Creek	Study and design of storm drain improvements throughout the Still Creek watershed.	0.53	FMX service area is less than one square mile.
Shirley Lane Flooding	Street reconstruction to better direct flow and expand roadside ditch.	0.56	FMX service area is less than one square mile.
23rd Street Draining & Maintenance	Study to determine cause and proposed alternatives to mitigate flooding in the subdivision.	0.57	FMX service area is less than one square mile.
University Oaks Crossing	Update design to account for Atlas 14 rainfall.	0.57	FMX service area is less than one square mile.
Harvey Rd Crossing	Update design to account for Atlas 14 rainfall.	0.57	FMX service area is less than one square mile.
Covington West and Imperial Woods Drainage Improvements	Drainage infrastructure improvements to reduce flooding in the Covington West drainage area.	0.59	FMX service area is less than one square mile.
Burton Creek Failed Channel, Linings	Study to design fixes for channel, Linings along Burton Creek.	0.61	FMX service area is less than one square mile.
Spring Lane Residential Flooding	Drainage study to assess flooding in the neighborhood and propose improvements	0.71	FMX service area is less than one square mile.
Texas Ave Crossing & Channel Improvements (Longmire to Hwy 6)	Update design to account for Atlas 14 rainfall.	0.71	FMX service area is less than one square mile.
Williams Trace and Highlands Drainage Improvements	Upsize storm water system and install inlet improvements along Williams Trace from south of SH 6 to Oyster Creek and Lexington Blvd from Williams Trace to Oyster Creek.	0.72	FMX service area is less than one square mile.
Brothers Blvd Crossing & Channel (Rio Grande to Longmire)	Update design to account for Atlas 14 rainfall.	0.73	FMX service area is less than one square mile.
Dam 15 Rehabilitation	The rehabilitation project will repair erosion along the upstream toe of the dam that has been caused by wind-driven wave action.	0.82	FMX service area is less than one square mile.

List of Infeasible FMXs

FMX Name	FMX Description	FMX Area	Reason for Infeasibility
Holleman Crossing & Channel Improvements (Glade to Holleman)	Update design to account for Atlas 14 rainfall.	0.85	FMX service area is less than one square mile.
Bremond Master Drainage Plan	Develop study to determine/ address flood risk.	0.88	FMX service area is less than one square mile.
Riverbend Drainage Improvements Phase II	Update design to account for Atlas 14 rainfall.	0.88	FMX service area is less than one square mile.
Develop Capital Improvements Plan	Develop plan to provide prediction of funds available for long term improvements and equipment that would be beneficial.	0.91	FMX service area is less than one square mile.
Miliff Rd Crossing	Update design to account for Atlas 14 rainfall.	0.92	FMX service area is less than one square mile.
Commonwealth Blvd Drainage Improvements	Design and construct drainage improvements along Commonwealth Blvd between Monarch Dr, Elkins Rd, St Michaels Ct, and Knightsbridge Ct.	0.92	FMX service area is less than one square mile.
Burton Creek Trib 7 Mitigation	Detailed study to determine flooding caused by Burton Creek Trib 7 and determine flood mitigation solutions.	0.96	FMX service area is less than one square mile.
Avalon/Brazos Landing/ Commonwealth Drainage Imp 1 & 2	Study to determine improvements needed for FBC LID 14 weir.	0.97	FMX service area is less than one square mile.
Town of Holiday Lakes Hurricane Harvey HUD Application	Improvements to road drainage at several, Locations, and addition of sluice gates into the drainage system.	0.97	FMX service area is less than one square mile.
Pump Station Conversion at the Woods Acreage Estates Outfall	Design of pump station to provide relief to Woods Acreage Estates in flood events.	0.98	FMX service area is less than one square mile.
Improve & Flood Proof Critical Facilities in City of Coolidge	Increase resiliency of critical facilities to flood events.	0.53	FMX service area is less than one square mile.
City of Covington Automated Floodgates	Implementation of automated gates to block public from areas prone to flood risk.	0.58	FMX service area is less than one square mile.
City of Covington Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	0.58	FMX service area is less than one square mile.
Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	0.77	FMX service area is less than one square mile.
City of Rosebud Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	0.77	FMX service area is less than one square mile.
City of Mount Calm Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	0.83	FMX service area is less than one square mile.
City of Bremond Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	0.88	FMX service area is less than one square mile.
City of Franklin Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	0.94	FMX service area is less than one square mile.
City of Lott Transform Flood-Prone Areas into Parks	Preserve and create more open space to naturally store and discharge flood waters.	0.95	FMX service area is less than one square mile.
City of Thornton Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	0.98	FMX service area is less than one square mile.

List of No Longer Relevant FMXs

FMX Name	FMX Description	Source	Source Date	Reason
Comanche County TADD Promotion	Increase awareness of flood risk and hazards.	Hazard Mitigation Plan	2012	FMX source was created more than 10 years ago, and no sponsor has shown interest.
City of Gustine TADD Promotion	Increase awareness of flood risk and hazards.	Hazard Mitigation Plan	2012	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Eastland County Early Flood Warning System	Implement system to monitor flood waters.	Other/HMP	2012	FMX source was created more than 10 years ago, and no sponsor has shown interest.
City of Carbon TADD Promotion	Increase awareness of flood risk and hazards.	Hazard Mitigation Plan	2012	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Somervell County Low Water Crossings Mitigation	Improve low water crossings to reduce flooding.	Hazard Mitigation Plan	2014	FMX source was created more than 10 years ago, and no sponsor has shown interest.
City of Glen Rose Mitigate Low Water Crossings	Improve low water crossings to reduce flooding.	Hazard Mitigation Plan	2014	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Lake Leon Dam & Emergency Spillway Improvements	Study to determine necessary dam improvements to reduce flood risk downstream.	Hazard Mitigation Plan	2012	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Hunting Shirt Creek Culvert Improvements	Design of drainage feature improvements to increase capacity and ensure they are within standards.	Hazard Mitigation Plan	2012	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Cisco Storm Sewer Upgrades and Extensions	Upgrade storm sewer system and install new water lines to improve existing drainage.	Hazard Mitigation Plan	2012	FMX source was created more than 10 years ago, and no sponsor has shown interest.
City of Bryan Flood Study	Perform study to determine and address flood risk throughout the city.	Hazard Mitigation Plan	2015	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Dam Failure Analysis for Bryan Utilities Lake	An Emergency Action Plan (EAP) was created for the Bryan Utilities Lake Dam. The EAP contains information on who will be notified in the case of a dam failure.	Hazard Mitigation Plan	2014	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Burleson County Dam Failure Study	Study to determine condition and salvageability of dams on local, Lakes.	Hazard Mitigation Plan	2009	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Lake Somerville Dam Failure Study	Develop study to determine/ address flood risk.	Hazard Mitigation Plan	2009	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Johnson County Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	Hazard Mitigation Plan	2013	FMX source was created more than 10 years ago, and no sponsor has shown interest.
City of Cleburne Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	Hazard Mitigation Plan	2013	FMX source was created more than 10 years ago, and no sponsor has shown interest.
City of Godley Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	Hazard Mitigation Plan	2013	FMX source was created more than 10 years ago, and no sponsor has shown interest.
City of Joshua Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	Hazard Mitigation Plan	2013	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Somervell County Drainage System Improvements	Study to identify capital improvements for the storm drainage system.	Hazard Mitigation Plan	2014	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Somervell County Dam Failure Study	Develop study to determine/ address flood risk.	Hazard Mitigation Plan	2014	FMX source was created more than 10 years ago, and no sponsor has shown interest.
Glen Rose Master Drainage Plan	Develop study to determine/ address flood risk.	Hazard Mitigation Plan	2014	FMX source was created more than 10 years ago, and no sponsor has shown interest.

Attachment 4

Task 2A and Task 2B approach memorandums.



Region 8 – Task 2A Revised Approach Memorandum

To: Bryan McMath, Executive Administrator **Date:** 11/21/2025
Tressa Olson, Assistant Director, Flood
Planning

From: Region 8 Technical Consultant Team **AVO:** 54860

Email: rLondeen@halff.com
jBlohm@halff.com

Subject: Task 2A – Revised Approach Memorandum for Existing Conditions Flood
Hazard Layer Prioritization

PROPOSED APPROACH

On behalf of the Lower Brazos Regional Flood Planning Group (LBRFPG), the technical consultant team has summarized the methodology for determining the prioritization of available existing conditions datasets for the existing conditions flood hazard layer.

A proposed approach memorandum was supplied to the Texas Water Development Board (TWDB) on September 19, 2025, based on the prioritization developed by the LBRFPG at its regular meeting on September 18, 2025. The TWDB reviewed the proposed approach and provided feedback on October 17, 2025 that they could not accept the removal of the Detailed FEMA data (Zone AE & VE). The following revised approach memorandum details the RFPG's revised approach that utilizes Detailed FEMA data as the highest priority according to the TWDB's dictation.

The prioritization of available datasets is as follows:

1. Detailed FEMA Data (Zone AE and VE)
2. Community Models / Maps*
3. Pluvial Fathom for urban areas with populations greater than 5,000
4. Base Level Engineering (BLE) 2D
5. Maximum of BLE 1D and Fathom

*Community models and maps were assessed on a case-by-case basis and prioritized through comparison with other available datasets. The modeling and mapping products associated with the General Land Office River Basin Flood study are considered community models.

The revised prioritization varies from the recommended TWDB prioritization in two ways: the de-prioritization and removal of approximate FEMA data (Zone A) and the prioritization of Fathom over BLE data in select areas. Justification for the change in approach is provided below.

JUSTIFICATION OF APPROACH

Removal of Approximate FEMA Data (Zone A)

Since the Lower Brazos Flood Planning Region (Region) has complete BLE coverage, and BLE has a higher accuracy than FEMA approximate Zone A, all Zone A areas were removed from consideration.

Consideration of Detailed FEMA Data (Zone AE)

In the recommended TWDB prioritization, Detailed FEMA data (AE & VE) is ranked above BLE. Our review of the Region indicates that many FEMA mapping products are based on models that use old rainfall statistics, terrain data, and land use information, as well as older modeling technology. In comparison, all BLE 2D models within the Region were developed within the past five years and incorporate Atlas 14 rainfall statistics, along with updated land use and terrain datasets that reflect more recent changes and development projects.

The team did consider the fact that Detailed FEMA models for larger rivers are typically based on more accurate riverine hydrology over traditional hydrological methods. However, a comparison between the BLE 2D and Detailed FEMA extents for major rivers throughout the Region showed minimal differences in flood extents between the two datasets. Upon review of the BLE 2D reports, it was found that large rivers were calibrated to FEMA data which we believe contributed to the similarity between the datasets, as seen in **Figure 1**.

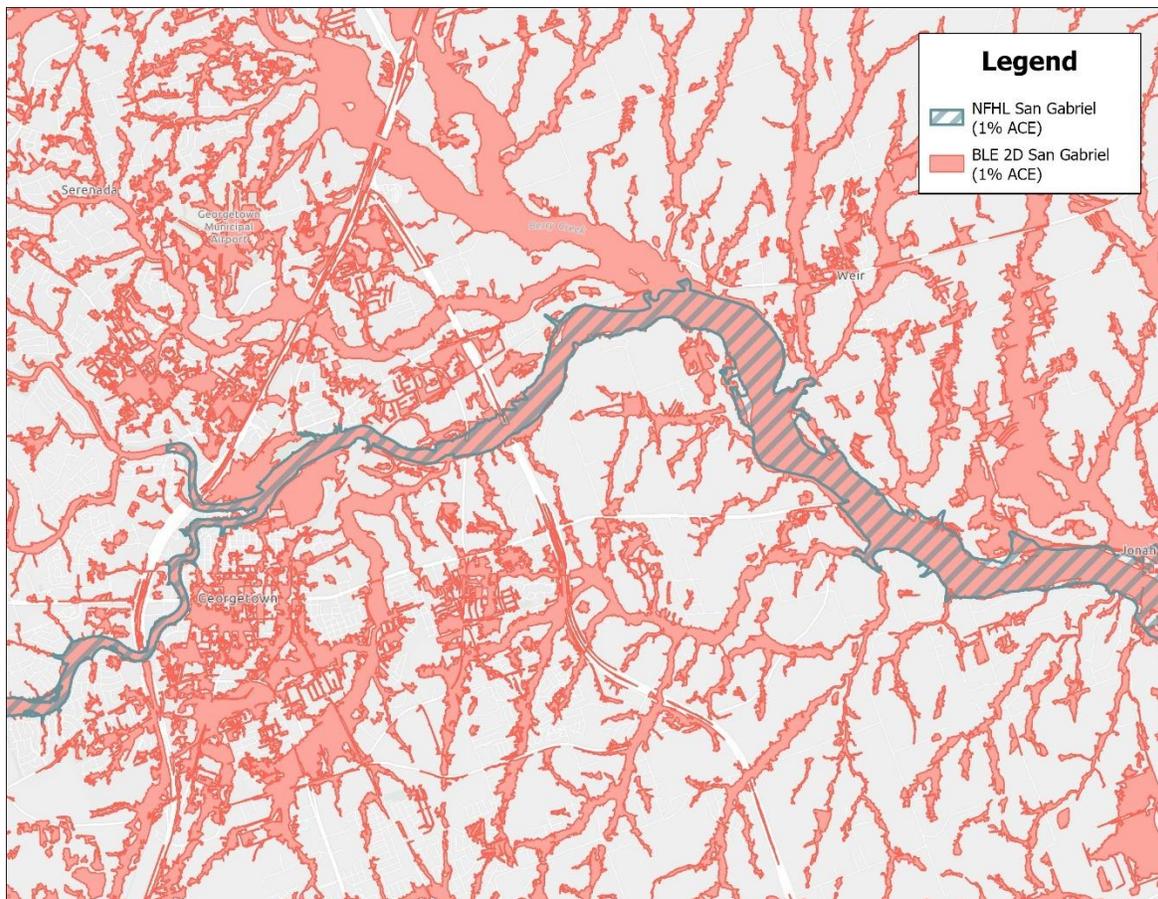


Figure 1: NFHL vs BLE 2D - San Gabriel River



Based on this review of the Detailed FEMA data, the LBRFPG voted to prioritize BLE over FEMA and effectively remove FEMA representation from the flood quilt. However, upon the TWDB's review of the proposed prioritization, they indicated this change would not be accepted. The TWDB stipulated that regulatory data extents must be shown throughout the flood quilt. To account for this, the revised approach includes Detailed FEMA data as the top prioritization, superseding all other datasets throughout the flood quilt extents.

BLE and Fathom

In the recommended TWDB prioritization, BLE is ranked higher than Fathom data in all circumstances. However, the LBRFPG has requested that Fathom be prioritized higher in two circumstances: in HUC-8s where BLE 1D is the only other available dataset, and for pluvial flooding in urban areas with a population greater than 5,000 people.

BLE 1D and Fathom

Initial work on the flood quilt processing indicated that weaving together BLE 1D fluvial data and Fathom pluvial data for all three storm events was not manageable. Attempting to tie the datasets together at each dataset intersection resulted in portions of the BLE 1D being removed at each tie-in location. Due to the high number of tie-ins, the removal of BLE 1D was extensive and resulted in the HUC-8s being almost entirely characterized by Fathom data instead of BLE.

Rather than setting coverage limits for each dataset, the revised approach uses either Fathom or BLE 1D—whichever is greater—for any area within the affected HUC-8s. This approach ensures that BLE 1D data is utilized in regions where it provides a more detailed and conservative estimate of riverine flood risk while also capturing pluvial flood risk provided by Fathom, especially in those locations where Fathom and BLE datasets intersect.

BLE 2D and Fathom in Urban Areas

BLE 2D is also ranked higher than Fathom data in the recommended TWDB prioritization. A review of the characterization of pluvial flood risk in cities indicated that BLE 2D is likely overestimating flood depths in these areas. The technical team completed a detailed comparison of BLE 2D and Fathom data for cities throughout the region. In all locations, BLE 2D showed higher flood depths and wider inundation extents for pluvial flood risk than Fathom, as shown in **Figure 2**.

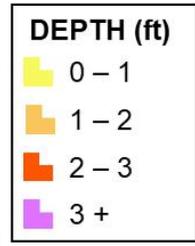
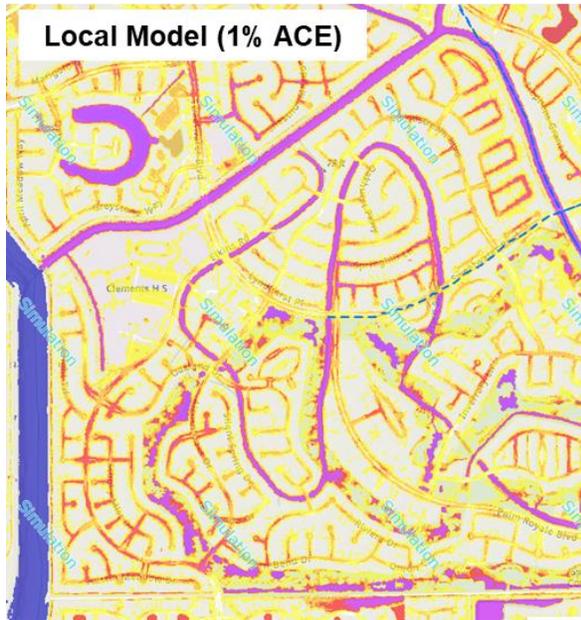


Figure 2: BLE 2D vs Fathom - City of Hutto

BLE 2D does not account for storm sewer systems which are typically sized for the 50% or 20% annual chance event (ACE). The rainfall associated with the 50% and 20% ACE accounts for 30-50% of the 1% ACE rainfall within the Lower Brazos region. The presence of urban drainage infrastructure means this portion of the 1% ACE rainfall is not contributing to flood risk in urban areas since it is effectively being conveyed underground. By not accounting for this, BLE 2D likely overestimates flooding extents.

In contrast, Fathom approximates the effect of urban drainage infrastructure by removing the 50% ACE rainfall hyetograph from the 10%, 1%, and 0.2% ACE applied rainfall. This provides a better representation of the ponding that would be seen within these urban areas during a storm event.

To support this conclusion, a comparison of Fathom, BLE 2D, and local modeling was completed where data was available. Particularly, the technical team made comparisons to publicly available 1% ACE inundation data for the City of Sugar Land that includes detailed modeling of storm sewer infrastructure, as shown in **Figure 3**. Fathom data was found to closely resemble the detailed modeling results within this location, while BLE 2D overestimated flood depths by over 2 feet in some locations.



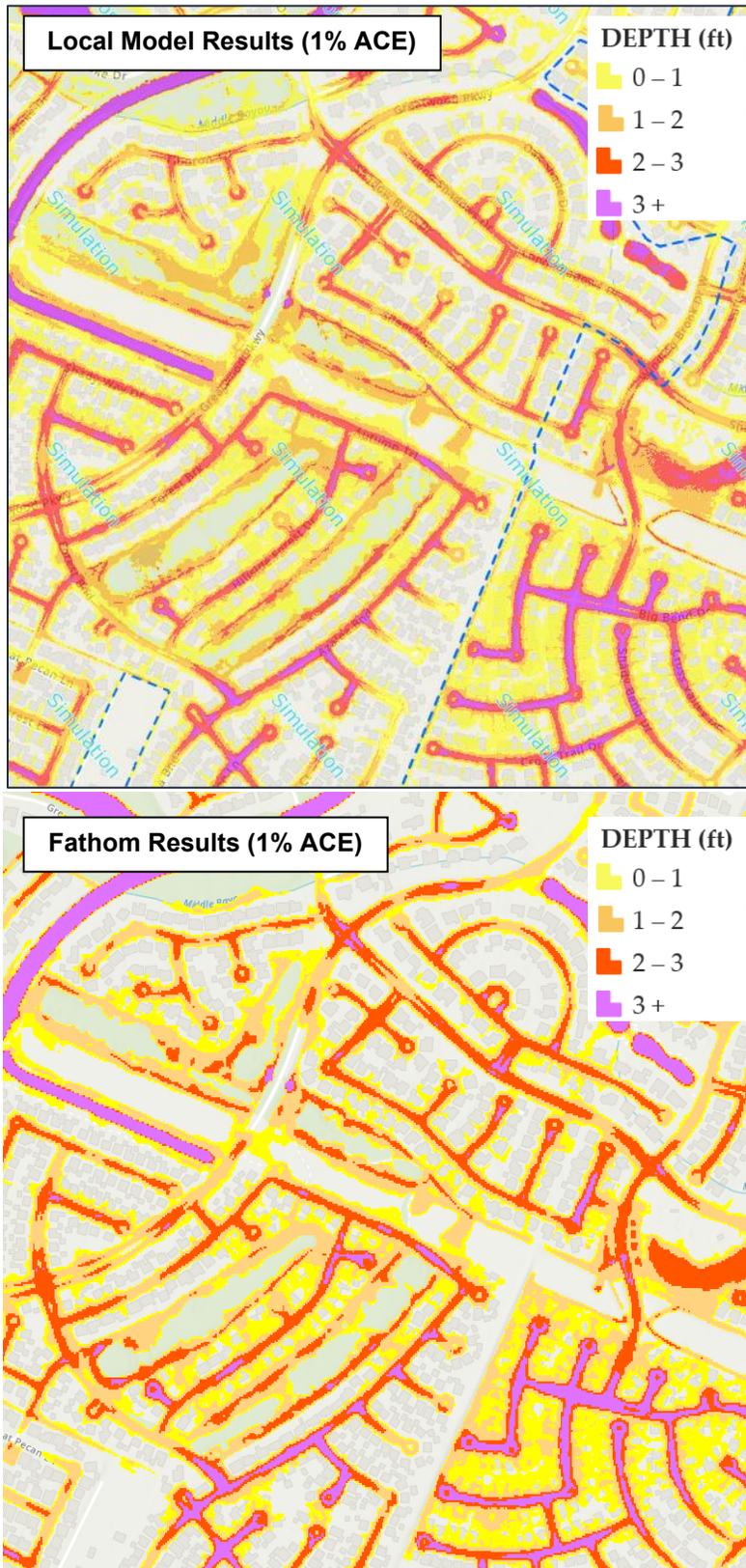


Figure 3: Comparison of Model Results in Sugar Land



Finally, portions of the Region do not have 2D BLE and pluvial Fathom is the only flood risk dataset available for some cities. Using pluvial Fathom for all urban areas ensures that flood risk in urban areas is quantified consistently across the region.

Pluvial Fathom will be applied in urban areas with populations over 5,000, while BLE 2D characterization will continue to assess pluvial and fluvial flood risks in rural areas. This update impacts about 30 cities in the Lower Brazos region. The 5,000-population threshold aligns with cities of approximately one square mile which is consistent with the threshold required for an FMX to be included in the plan.

CONCLUSION

The revised prioritization approach developed by the LBRFPG is the result of research and analyses completed by the technical consultant team, as well as revisions made upon the TWDB's review of the proposed approach. Although it may not offer the most accurate representation of flood risk, the group strived to use the available data in a way that most accurately reflects flood risk consistently across the region. The proposed approach ensures the Lower Brazos flood quilt provides a comprehensive and cohesive analysis of flood risk extents within the region.

TO: Mr. Bryan McMath, Executive Administrator
CC: Tressa Olsen, Assistant Director, Flood Planning
FROM: Region 8 Technical Consultants Team
SUBJECT: Task 2B - Future Flood Hazard Area Approach
DATE: 6/27/2025

On behalf of the Lower Brazos RFPG, the consultant team is requesting the TWDB to evaluate for approval the methodology proposed in this document for determining the location and extent of future flood hazard areas as a part of Task 2B. Generally, the region can be classified into two categories for the purposes of describing the Lower Brazos RFPG's proposed approach: areas covered by regional 2D hydraulic models, including GLO RBFS and BLE products, and 1D BLE models. The proposed approach for these areas is summarized as follows:

Areas Covered by 2D BLE and/or GLO RBFS models:

- Prioritization ranking:
 1. GLO (future)
 2. 2D BLE (future)
 3. Pluvial Fathom Scenario 4
- Modification technique of existing data to develop future conditions:
 - o Recompute models with updated precipitation and land cover assumptions
 - o TWDB Water User Group data to be used to identify areas of new 2060 urbanization and resulting updates to impervious cover assumptions
 - o Fathom study significant climate forcing scenario used to update rainfall boundary conditions

Areas Covered by 1D BLE:

- Delineate the following areas based on review of data:
 - o Pluvial Fathom Scenario 4
 - o Greater extent of Pluvial Fathom Scenario 4 + 1D BLE (future)
- Modification technique of existing data to develop future conditions:
 - o Calculate typical increase from Combined Fathom Scenario 5 to Combined Fathom Scenario 3
 - o Apply this increase in flood depth to 1D BLE water surface elevation raster data using vertical buffer process implemented in cycle 1

Justification of approach:

Exhibit C specifies that the RFPGs may choose to utilize other more detailed or accurate future condition flood hazard information for their region, if available. Based on our review of the fathom model results and report, we believe that 2D BLE models and 2D GLO models produce results that more accurately reflect flooding consequences at a localized level than Fathom results. Therefore, we plan to modify

Mr. Bryan McMath
June 27, 2025
Page 2 of 2

model boundary conditions and land cover assumptions as necessary to identify future conditions flood risk. In order to modify model boundary conditions, we will use Fathom input data recently provided by the TWDB to determine necessary increases to rainfall depths, and use Water User Group data to predict development patterns. This “future development” process was used for the future condition exposure analysis in the first planning cycle. In this cycle, the RFPG will also use this process to determine anticipated increases in impervious cover throughout the watershed.

Furthermore, 1D BLE models for larger flooding sources, including main channels draining HUC12-sized areas and greater, tend to produce more conservative results than Fathom data. These 1D BLE studies have clear report documentation at a HUC-8 level to justify and explain the modeling approach. Therefore, we believe that there are areas where it is appropriate to leverage vertically buffered 1D BLE data and supplement with Pluvial fathom data.

Lastly, during our review of fathom data, we noted that Fathom Scenario 3 shows inconsistent increases relative to Fathom Scenario 5 (existing) due to hydraulic model roughness changes, which is explained in further detail in the attached document [20250506 Future Fathom Comments.docx](#) that Scott Hubley previously provided. Because of this, for areas where we are using future fathom data, we plan to use Fathom Scenario 4, which includes moderate climate forcing and no land cover or roughness changes.

Attachment 5

Task 3A approach memorandum.

DATE: August 20th, 2025

Data Code: _____

TO: Lower Brazos Regional Flood Planning Group

FROM: Evan Adrian, PE, CFM, ENV SP; Jacob Torres, PhD, PE, CFM, BC.WRE

(Torres & Associates, LLC)

PROJECT: 2028 Lower Brazos Regional Flood Plan

SUBJECT: Preliminary Recommendations on Floodplain Management Practices (Task 3A)

This memorandum provides a cursory listing of *Standards for Recommendation* for the Lower Brazos Region, in partial fulfillment of *Task 3A - Evaluation and Recommendations on Floodplain Management Practices*. The purpose of Task 3A is to evaluate existing floodplain management practices within the Lower Brazos Planning Region and recommend floodplain management standards that minimize existing flood risks and prevent creating new flood risks. It is essential to note the RFPG does not have the authority to enact or enforce floodplain management, land use, or other infrastructure design standards. Any standards considered, recommended, and accepted by the Lower Brazos RFPG are intended to encourage implementation by local entities in the Lower Brazos Planning Region with flood-related authority. Any standards considered, recommended, and adopted by the Lower Brazos RFPG in this task would be aimed at encouraging implementation by local entities in the region with flood-related authority.

Floodplain management standards fall into two main categories, *adoption* and *recommendation*. Recommended standards are general guidelines for consideration by the floodplain regulating entities in the region. Adopted standards are specific minimum standards that should be adopted by the entities within the region. Standards determined to be for adoption must be implemented by entities prior to the RFPG including any flood management evaluations, flood management strategies, or flood mitigation projects for the entity in the Regional Flood Plan. **Based on feedback from the RFPG during the meeting on May 15th, 2025, standards proposed for the Lower Brazos Flood Planning Region are recommended standards to be used as general guidelines for consideration by the entities within the region.**

The recommended standards for consideration are divided into two distinct categories: standards for region-wide recommendation and standards recommended for smaller “zones” within the Lower Brazos Planning Region delineated along county boundaries. These categories allow for a broad application of standards and a tailored formulation for capturing flood risk variability, natural hydrography, topography, climatological effects, and demographics throughout the region. The different categories of standards are described further in subsequent sections, along with the definitions of each standard. **Table 1** provides a summary of the *recommended* standards for the Lower Brazos Region.

Table 1. Summary of Lower Brazos Recommended Standards

Recommended Standard	Region Wide	Zone 1 "Coastal"	Zone 2 "Upper Coastal"	Zone 3 "Brazos Valley"	Zone 4 "Middle Brazos"
National Flood Insurance Program Participation	X				
Compensatory Storage Requirement in 1% Floodplain	X				
No Adverse Impacts for the 1% Storm Event	X				
Improved Flood Response	X				
Improved Flood Risk Awareness/Education	X				
Use of Best Available Rainfall Data*	X				
No Adverse Impacts for the 1% and 10% Storm Event		X	X	X	
Formation of a Voluntary Buyout Program		X			
Long-term Operation and Maintenance Planning of Drainage Infrastructure		X			
Drainage Corridor Preservation			X	X	
Compensatory Storage Requirement in 0.2% Floodplain				X	X
Requirements for Culvert and Bridge Crossings				X	X
Roadway Requirements within the Floodplain				X	X
Culvert and Bridge Hydrologic and Hydraulic Analysis Requirement				X	X

*Based on feedback from entities in the Lower Brazos Region, the Use of Best Available Rainfall Data Recommended Standard was revised to be applied Region Wide rather than only to Zones 1-3 in the 2023 Regional Flood Plan.

Data Collection and Analysis

Several data sources were utilized to inform the determination of floodplain management standards. These sources include survey feedback, existing criteria, standards, programs, regulations, reports, and available Texas Water Development Board (TWDB) data sources. Survey feedback was gathered to better understand the existing floodplain management practices throughout the region and identify standards that entities within the Lower Brazos region would like to see included in the regional flood plan. Existing criteria and standards were looked at to provide information on existing floodplain management practices for entities that did not provide survey feedback. This information supplemented the data gathered from the survey and provided a better understanding of the entire region on floodplain management practices. Spatial data provided by TWDB helped determine characteristics for areas within the region that assisted in refining recommended standards to be tailored to each area.

Existing criteria and standards were analyzed for many of the entities within the region. The existing criteria included drainage criteria manuals, engineering standards, master plans, stormwater management programs, subdivision regulations, and ordinances. Cities had a greater variation in existing criteria with many having drainage criteria manuals, master plans, and stormwater management programs. Counties primarily had subdivision regulations and stormwater management programs. The criteria varies over the region, however many of the entities have more stringent floodplain management standards than the minimum standards set by the National Flood Insurance Program (NFIP). Even though there are many entities that have higher standards, only 12 entities participate in the Community Rating System (CRS). The CRS is a program within the NFIP that recognizes communities that implement standards higher than minimum floodplain management standards. NFIP participating communities and CRS communities are shown in **Exhibit 3**.

TWDB technical guidance provided an outline for developing region-specific floodplain management standards. This included example standards, resources for higher standards including reports by Texas Floodplain Managers Association (TFMA) and FEMA CRS standards, and considerations to make when developing the standards. TWDB provided a rich assortment of spatial data that included FEMA flood claims, low water crossings, critical infrastructure, flood control infrastructure, and floodplain quilt. Low water crossings consist of roadway creek crossings that are subject to frequent inundation during storm events. Critical infrastructure includes hospitals, schools, fire stations, police stations, emergency shelters, assisted living facilities, and nursing homes. The data was analyzed through GIS to highlight specific watershed characteristics for each HUC 8 within the region. The metrics calculated were used to help tailor standards to each regional zone.

Entities within the Lower Brazos Region provided feedback through a basin wide survey initiated in January 2025. The survey included questions regarding existing floodplain management practices and considerations for minimum standards across the region. The responses provided insight into the existing standards being practiced by entities in the basin and suggested minimum standards that the communities

would prefer to see implemented. **Figure 1** provides the survey responses regarding minimum standards that entities within the Lower Brazos Region wants to see considered. All items from the survey are addressed by the recommended standards in the Regional Flood Plan.

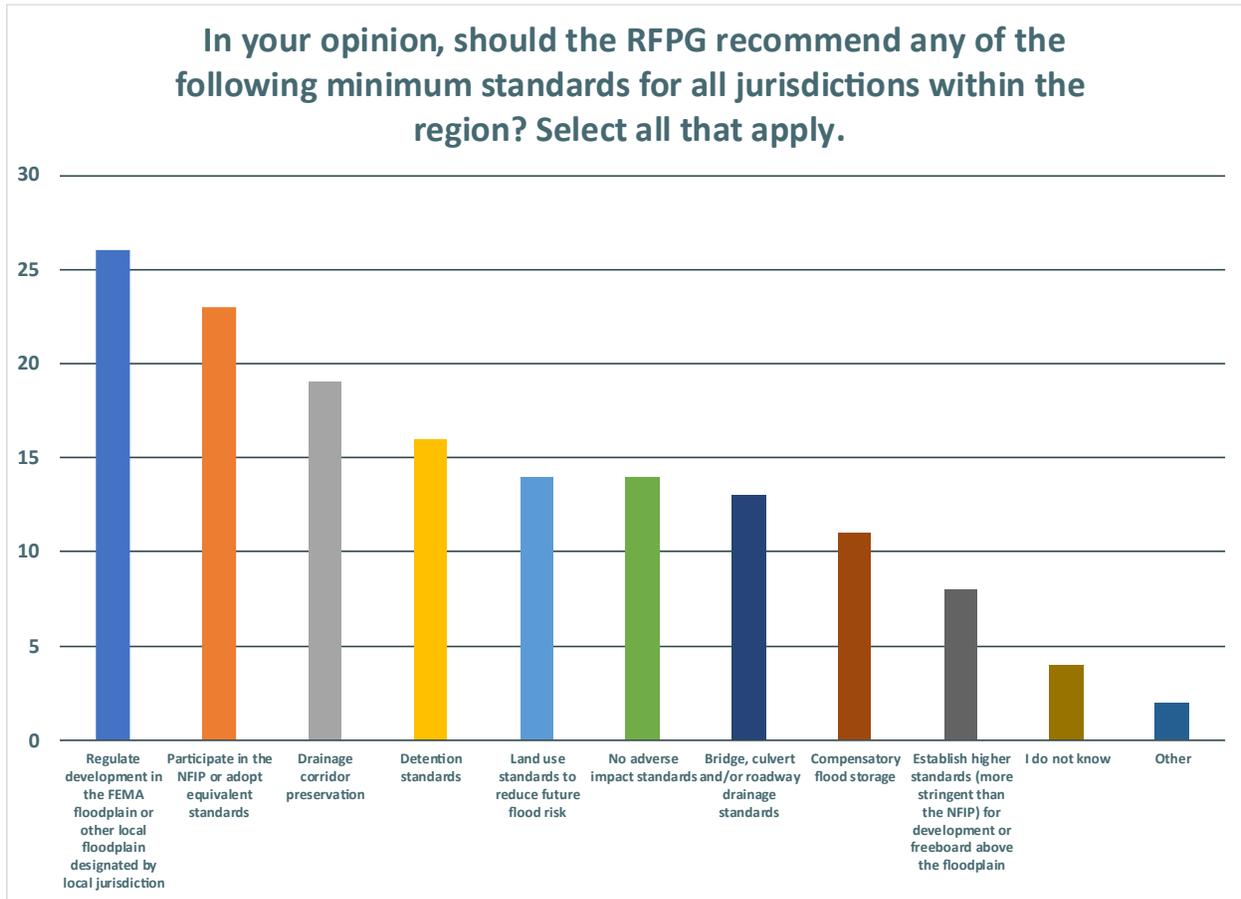


Figure 1. Responses to Question from the 2025 Lower Brazos Data Collection Survey

Region-Wide Standards for Recommendation

Standards presented in this section are *recommendations* for all entities within the Lower Brazos Region. **Red text** is used to indicate adjustments made to the recommendations included in the 2023 Region Flood Plan. Recommended standards are general guidelines for consideration by the floodplain regulating entities.

National Flood Insurance Program (NFIP) Participation.

All **floodplain regulating** entities should enact ordinances that meet minimum requirements for NFIP Participation and be active NFIP participants in good standing. This standard would only apply to communities not already NFIP participants in good standing. NFIP participation is voluntary, however it allows for discounted insurance premiums, eligibility for federal grants and loans, and federal disaster assistance. For communities to participate in the NFIP program, they must do the following.

- Adopt and enforce a flood damage prevention ordinance.
- Require permits for all types of development in the floodplain.
- Ensure that building sites are reasonably safe from flooding.
- Estimate flood elevations that were not determined by FEMA.
- Require new or substantially improved homes and manufactured homes to be elevated above the Base Flood Elevation (BFE).
- Require other buildings to be elevated or floodproofed.
- Conduct field inspections and cite violations.
- Require Elevation Certificates to document compliance.
- Carefully consider requests for variances.
- Resolve non-compliance and violations.
- Advise FEMA when updates to flood maps are needed.

Compensatory Storage Requirement in 1 Percent ACE Floodplain.

Any reduction in floodplain storage or conveyance capacity within the 1 percent ACE regulatory floodplain must be offset with a hydraulically equivalent (one-to-one) volume of mitigation sufficient to offset the reduction. Floodplains provide critical and beneficial functions for flood storage, natural habitat, and water quality. Fill placed within the floodplain impairs the benefits provided by the floodplain and should be avoided. This standard may be exercised for planned development or fill placement located within the 1 percent ACE regulatory floodplain. Such mitigation shall be within the same watershed or at an alternative site that is approved by that community’s Floodplain Administrator. A complete hydrological and hydraulic (H&H) analysis must be submitted to support a request for mitigation outside the developed property boundaries. This requirement does not apply to FEMA classified flood zones with velocity hazards (FEMA Flood Zone V and VE).

No Adverse Impacts for the 1 Percent ACE Storm Event.

The 1 percent ACE is considered the primary storm for basing no adverse impacts. Incorporating no adverse impacts can help minimize flood damages caused by activities that could adversely impact flood damage to another property or community. This practice is cited in the Texas Floodplain Managers Association's (TFMA) Higher Standards (TFMA, 2018). This standard will require a complete H&H analysis to be submitted to support the no adverse impact requirement. Considerations should be made by each entity on the best practice for determining no adverse impacts, including the extent of impact consideration, no rise in water surface elevation versus no increase in peak flow, and regional mitigation versus local development mitigation. For reference, examples of no adverse impact determinations are:

- A rise of 0.01 feet on another property is non-permissible and is considered an adverse impact. In addition, any loss in floodplain volume on the property is also an adverse impact.
- An increase in peak flow in the receiving waterway downstream of development is non-permissible and is considered an adverse impact.

Improved Flood Response.

This measure includes appropriate efforts for enhancing flood notification and communication, both with emergency response personnel and the public. Efforts to improve flood response can include development of an Emergency Action Plan (EAP) for significant storm events, communication plans to contact residents of emergency situations during storm events, implementation of an emergency response system, and execution of emergency response tabletop exercises. This can improve flood risk communication and mobility (response and evacuation) at large geographic scales.

Improved Flood Risk Awareness/Education. This standard recommends implementation of flood risk awareness and education within the **region**. Flood risk awareness and education can include a website, webinars, **public meetings, or other engagement efforts** to increase public flood risk awareness.

Use of Best Available Rainfall Data. Utilize the latest rainfall data as the more conservative rainfall estimates as part of new analysis and design standards and flood prevention regulations.

Based on feedback from some communities in the region, it was recommended that the Use of Best Available Rainfall Data be revised to a Region-wide Standard due to Statewide Agencies updating their criteria to use Best Available Rainfall Data as it is available. For example, the Texas Department of Transportation (TXDOT) has adopted Atlas 14 rainfall as the best available rainfall data on a statewide basis which provides much of the groundwork for entities to use the best available rainfall data in their areas.

Lower Brazos “Zone” Standards for Recommendation

Standards presented in this section are suggested as *recommendations* for entities within each defined zone within the Lower Brazos Region. Recommended standards are general guidelines for consideration by the floodplain regulating entities. Each zone has defining characteristics that were used to tailor recommended standards to help local entities establish preventative measures for reducing flood damage. **Table 2** summarizes the characteristics of each zone. The recommended standards for all zones were developed to increase CRS participation by recommending higher standards be implemented by entities and increase coastal resiliency for Zone 1. **The zones are based on the county boundaries with the region.** A map of the zones is provided as **Exhibit 2**.

Table 2. Lower Brazos “Zone” Characteristics

Zone	Flood Claims*	CRS Communities	NFIP Participation (% of Entities)	Critical Infrastructure in Floodplain*	Low Water Crossings
Zone 1 “Coastal”	10,346	3	100%	303	18
Zone 2 “Upper Coastal”	631	0	79%	22	47
Zone 3 “Brazos Valley”	2,344	6	86%	256	1,121
Zone 4 “Middle Brazos”	1,026	4	83%	166	534

*Base datasets gathered during the 2023 Regional Flood Plan

Zone 1 – “Coastal”

Zone 1 is defined as the coastal region nearest the Gulf of Mexico. The zone is comprised of Brazoria County and Fort Bend County. There are three CRS rated communities within the zone, Missouri City, the city of Sugar Land, and a small portion of the City of Houston. The defining characteristics of this zone are a high number of FEMA flood claims, high NFIP participation, high number of critical infrastructure within the floodplain, and only a few low water crossings. Over half of the zone is within the 0.2 percent ACE FEMA floodplain. Precipitation estimates for this zone have increased with Atlas 14 revised rainfall data.

Zone 2 – “Upper Coastal”

Zone 2 is defined as the upper coastal region and is comprised of Austin and Waller Counties. The defining characteristics of this zone are a low number of FEMA flood claims, above 75% NFIP participation, low number of critical infrastructure within the floodplain, and few low water crossings. Precipitation estimates for this zone have increased with Atlas 14 revised rainfall data.

Zone 3 – “Brazos Valley”

Zone 3 is defined as the Brazos Valley region and is comprised of the central counties within the region. The upstream and downstream boundaries were defined based on the proximity of the county boundaries to existing HUC-8 boundaries. McLennan County and Bell County were included in Zone 3 based on similarities to the other counties within Zone 3. The defining characteristics of this zone are a moderate amount of FEMA flood claims, medium to high NFIP participation, high number of critical infrastructure within the floodplain, and a significant number of low water crossings. Precipitation estimates for this zone have increased with Atlas 14 revised rainfall data.

Zone 4 – “Middle Brazos”

Zone 4 is the Middle Brazos region and is comprised of the northwestern counties within the Lower Brazos Region. The defining characteristics of this zone are a moderate amount of FEMA flood claims, medium to high NFIP participation, moderate number of critical infrastructure within the floodplain, and a significant number of low water crossings.

Recommended Standards for Zones

No Adverse Impacts for the 1 Percent ACE and 10 Percent ACE Storm Events. (Zone 1, 2, 3)

The 1 percent and 10 percent ACE storm events are considered the primary storm for basing no adverse impacts. Incorporating no adverse impacts can help minimize flood damages caused by activities that could adversely impact flood damage to another property or community. This practice is cited in TFMA’s Higher Standards (TFMA, 2018). This standard will require a complete H&H analysis be submitted to support the no adverse impact requirement. Considerations should be made by each entity on the best practice for determining no adverse impacts including the extent of impact consideration, no rise in water surface elevation versus no increase in peak flow, and regional mitigation versus local development mitigation. Examples of no adverse impact determinations are provided below for reference.

- A rise of 0.01 feet on another property is non-permissible and is considered an adverse impact. In addition, any loss in floodplain volume on the property is also an adverse impact.
- An increase in peak flow in the receiving waterway downstream of development is non-permissible and is considered an adverse impact.

Formation of a Voluntary Buyout Program. (Zone 1)

This practice recommends forming a voluntary buyout program by local entities to assist in reducing flood damage within certain areas of the floodplain. Implementing the program would help improve coastal resiliency and reduce repetitive flood damage.

Long-Term Operation and Maintenance Planning of Drainage Infrastructure. (Zone 1)

Developing a plan for long-term operation and maintenance of critical drainage infrastructure within each entity is recommended to improve coastal resiliency and reduce flood risk. This plan should include a defined sustainable funding mechanism to support long-term operation and maintenance. Critical drainage infrastructure can include dams, levees, floodwalls, and any other infrastructure identified as critical by the entity.

Drainage Corridor Preservation. (Zone 2, 3)

Infrastructure construction should avoid high-risk and sensitive areas such as floodways, floodplains, coastal dunes, and areas downstream of dams, levees, and floodwalls. New buildings or other new infrastructure should be prohibited within the regulatory floodplain and in other high risk or sensitive areas identified by the entity.

New Infrastructure refers to newly constructed infrastructure that would obstruct natural and engineered drainage corridors and other water courses. This recommendation does not apply to common infrastructure systems, such as water, wastewater, stormwater, and other infrastructure utilities that are deemed critical (e.g. communications, gas lines, emergency alert systems, etc.).

Compensatory Storage Requirement in 0.2 Percent ACE Floodplain. (Zone 3, 4)

Any reduction in floodplain storage or conveyance capacity within the 0.2 percent ACE floodplain must be offset with a hydraulically equivalent (one-to-one) volume of mitigation sufficient to offset the reduction. This standard may be exercised for planned development or fill placement located within the 0.2 percent ACE regulatory floodplain. Such mitigation shall be within the same watershed or at an alternative site that that community’s Floodplain Administrator approves. A complete H&H analysis must be submitted to support a request for mitigation outside the developed property boundaries. This requirement does not apply to flood zones with velocity hazards (Zone V and VE).

Requirements for Culvert and Bridge Crossings. (Zone 3, 4)

Culverts and bridges at arterial roadways, access roads to critical facilities, emergency routes, and evacuation routes should pass the 1 percent ACE with a minimum of one (1) foot of freeboard. This standard assists in reducing the number of new low water crossings within the zone.

Roadway requirements within the Floodplain. (Zone 3, 4)

New arterial roadways, access roads to critical facilities, emergency routes, and evacuation routes within the regulatory floodplain should be at or above the base flood elevation to provide access for emergency vehicles during a flood.

Culvert and Bridge Hydrologic and Hydraulic Analysis Requirement. (Zone 3, 4)

New culverts or bridges constructed in the floodway should require a complete H&H analysis.

References

Federal Emergency Management Agency (FEMA). (2017). “National Flood Insurance Program Community Rating System, Coordinator’s Manual.”

National Oceanic and Atmospheric Administration (NOAA). (2018). “NOAA Atlas 14 Precipitation-Frequency Atlas of the United States, Volume 11 Version 2.0: Texas.”

Texas Floodplain Management Association (TFMA), (2018). “A Guide for Higher Standards in Floodplain Management,” May 2018.

Texas Water Development Board (TWDB). (2025). “Technical Guidelines for Regional Flood Planning,” revised February 2025.

List of Exhibits

Exhibit 01 – Lower Brazos Counties and Key Cities

Exhibit 02 – Lower Brazos Regional Zones

Exhibit 03 – NFIP and CRS Participating Entities

Exhibit 04 – Flood Claims

Exhibit 05 – Critical Infrastructure within the Floodplain

Exhibit 06 – Low Water Crossings

Exhibit 07 – Entities with Higher Standards Identified

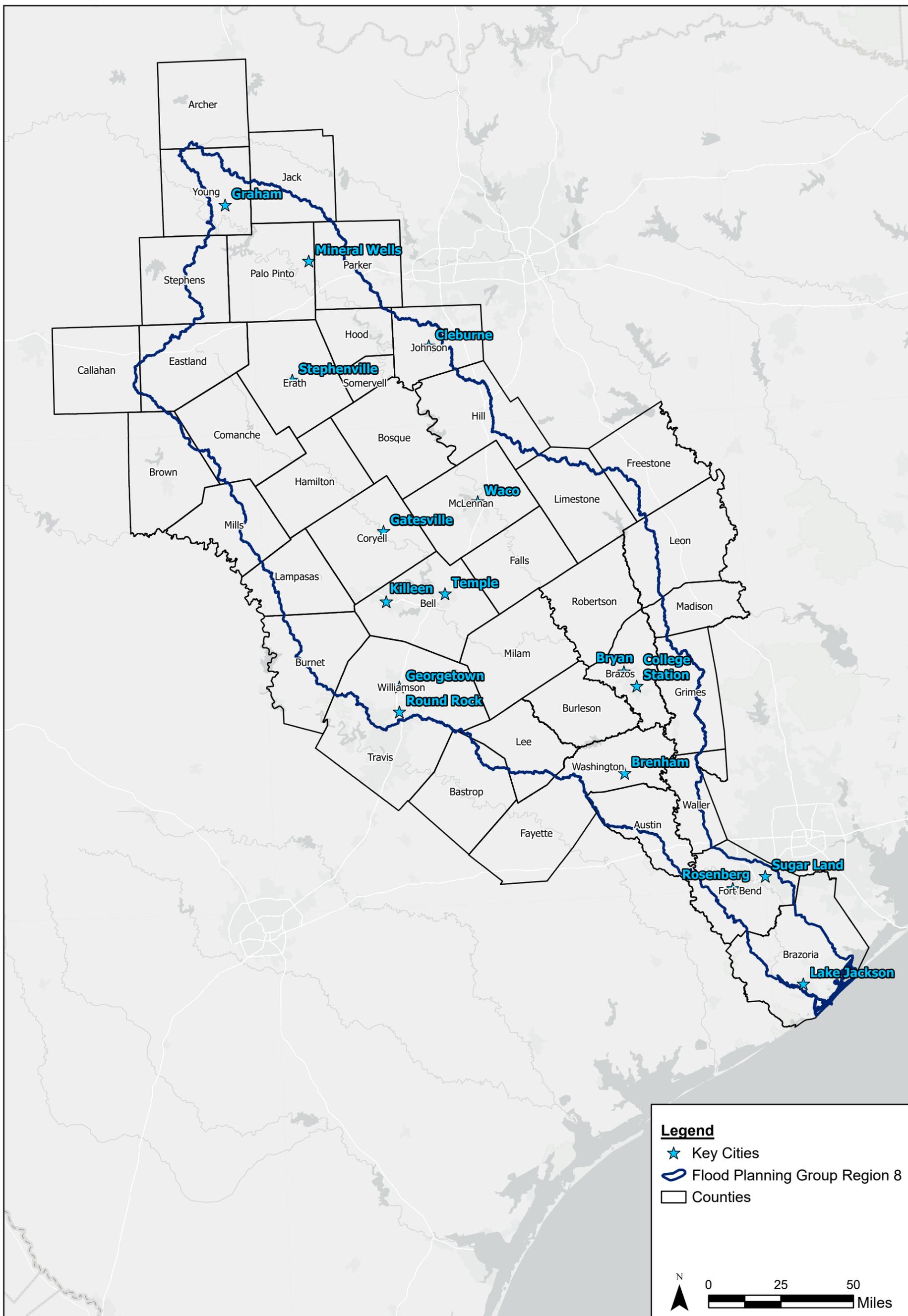


Exhibit 01	Date: Jul 2025 Scale: As Noted	 9303 NEW TRAILS DRIVE SUITE 400 THE WOODLANDS, TX 77381	Prepared: SCG	Checked: ESA	Approved: ESA	2028 REGION 8 (LOWER BRAZOS) REGIONAL FLOOD PLAN LOWER BRAZOS COUNTIES AND KEY CITIES
			 ENGINEERS SCIENTISTS PROFESSIONALS			

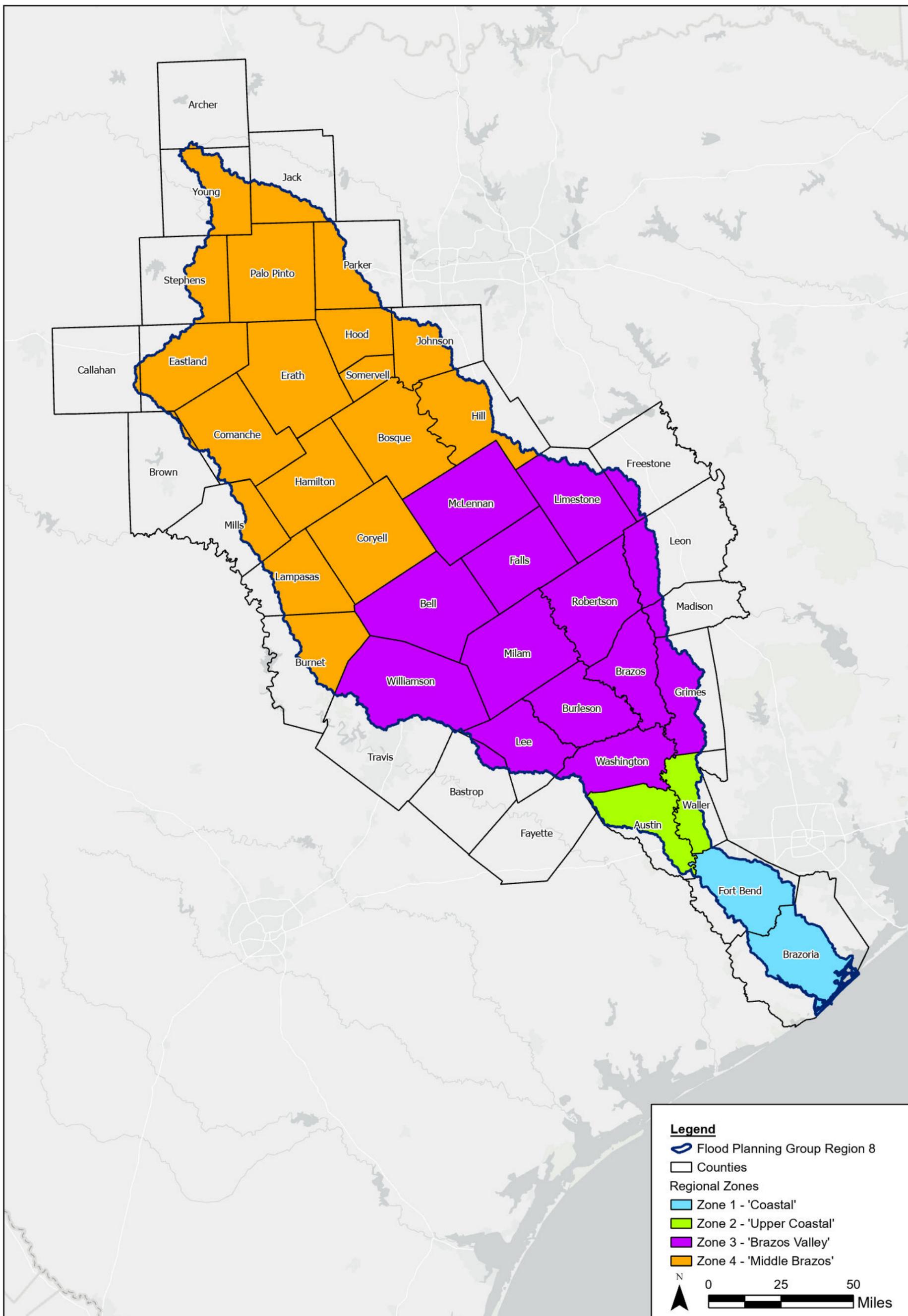


Exhibit 02	Date: Aug 2025 Scale: As Noted	 9303 NEW TRAILS DRIVE SUITE 400 THE WOODLANDS, TX 77381	Prepared: SDH	Checked: ESA	Approved: ESA	2028 REGION 8 (LOWER BRAZOS) REGIONAL FLOOD PLAN
			 ENGINEERS SCIENTISTS PROFESSIONALS			LOWER BRAZOS REGIONAL ZONES BY COUNTY

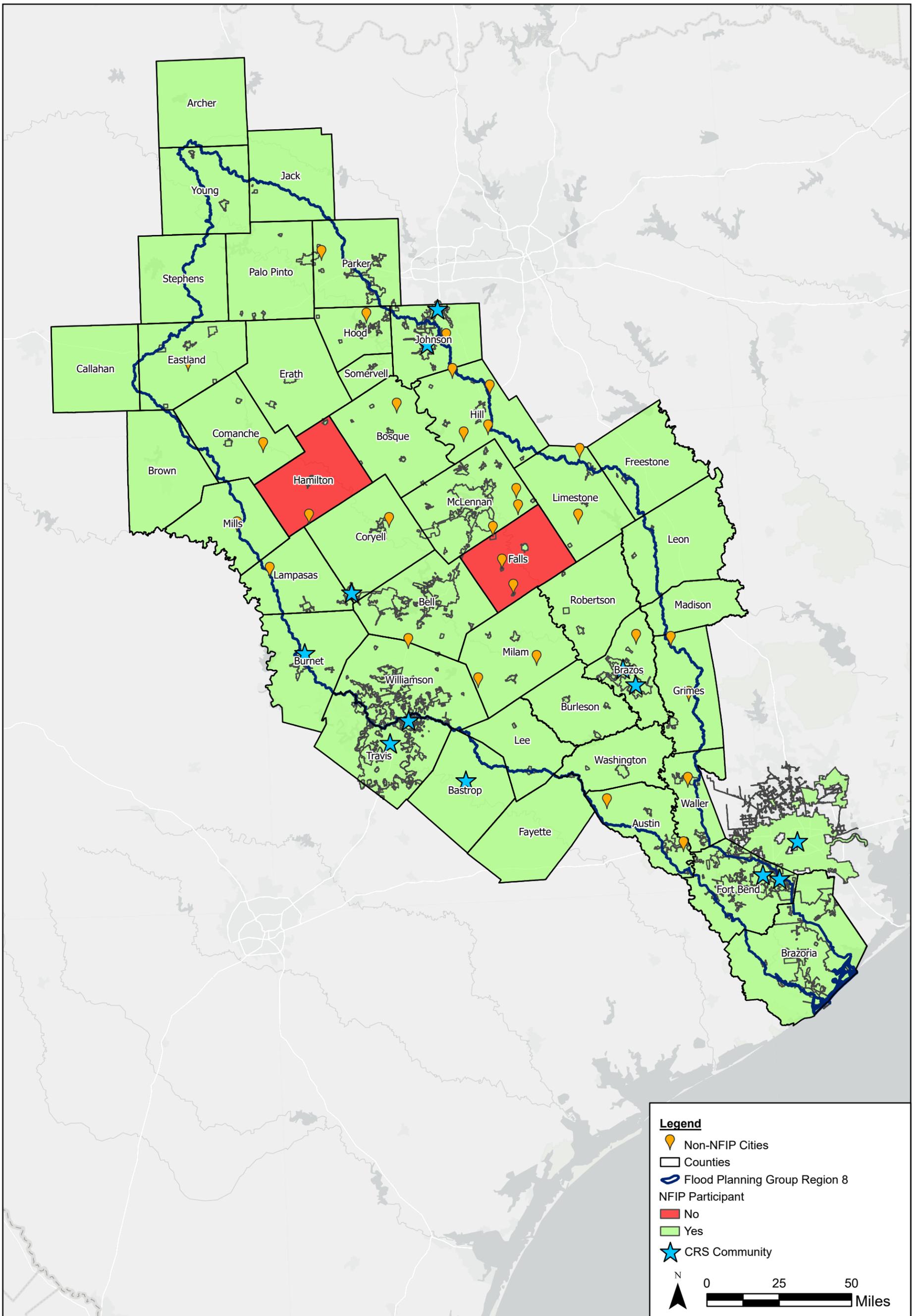


Exhibit 03	Date: Jun 2025 Scale: As Noted	 9303 NEW TRAILS DRIVE SUITE 400 THE WOODLANDS, TX 77381	Prepared: SCG	Checked: ESA	Approved: ESA	2028 REGION 8 (LOWER BRAZOS) REGIONAL FLOOD PLAN NFIP AND CRS PARTICIPATING ENTITIES
			 ENGINEERS SCIENTISTS PROFESSIONALS			

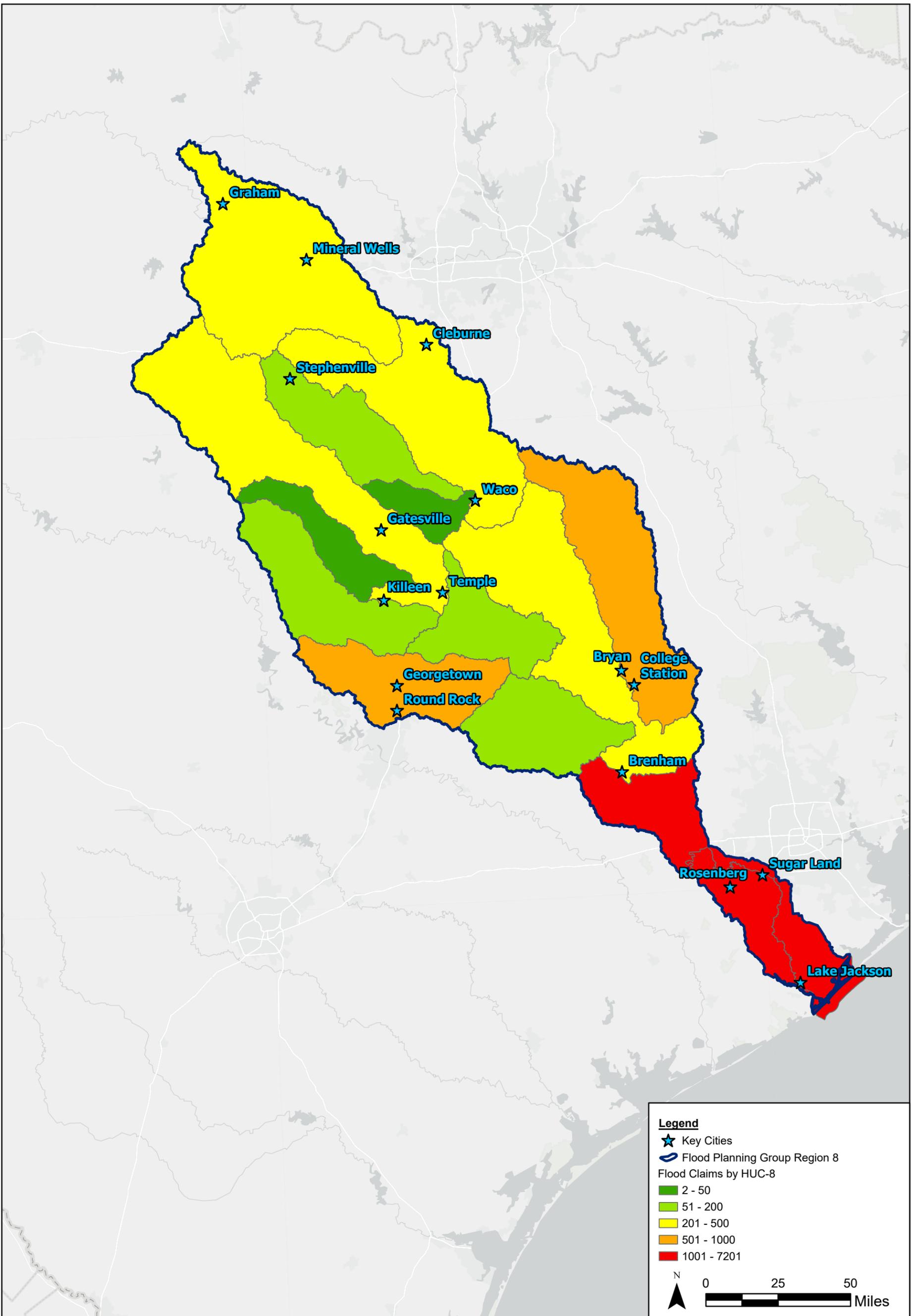


Exhibit 04	Date: Jun 2025 Scale: As Noted	 9303 NEW TRAILS DRIVE SUITE 400 THE WOODLANDS, TX 77381	Prepared: SCG	Checked: ESA	Approved: ESA	2028 REGION 8 (LOWER BRAZOS) REGIONAL FLOOD PLAN
			 ENGINEERS SCIENTISTS PROFESSIONALS			FLOOD CLAIMS BY HUC-8

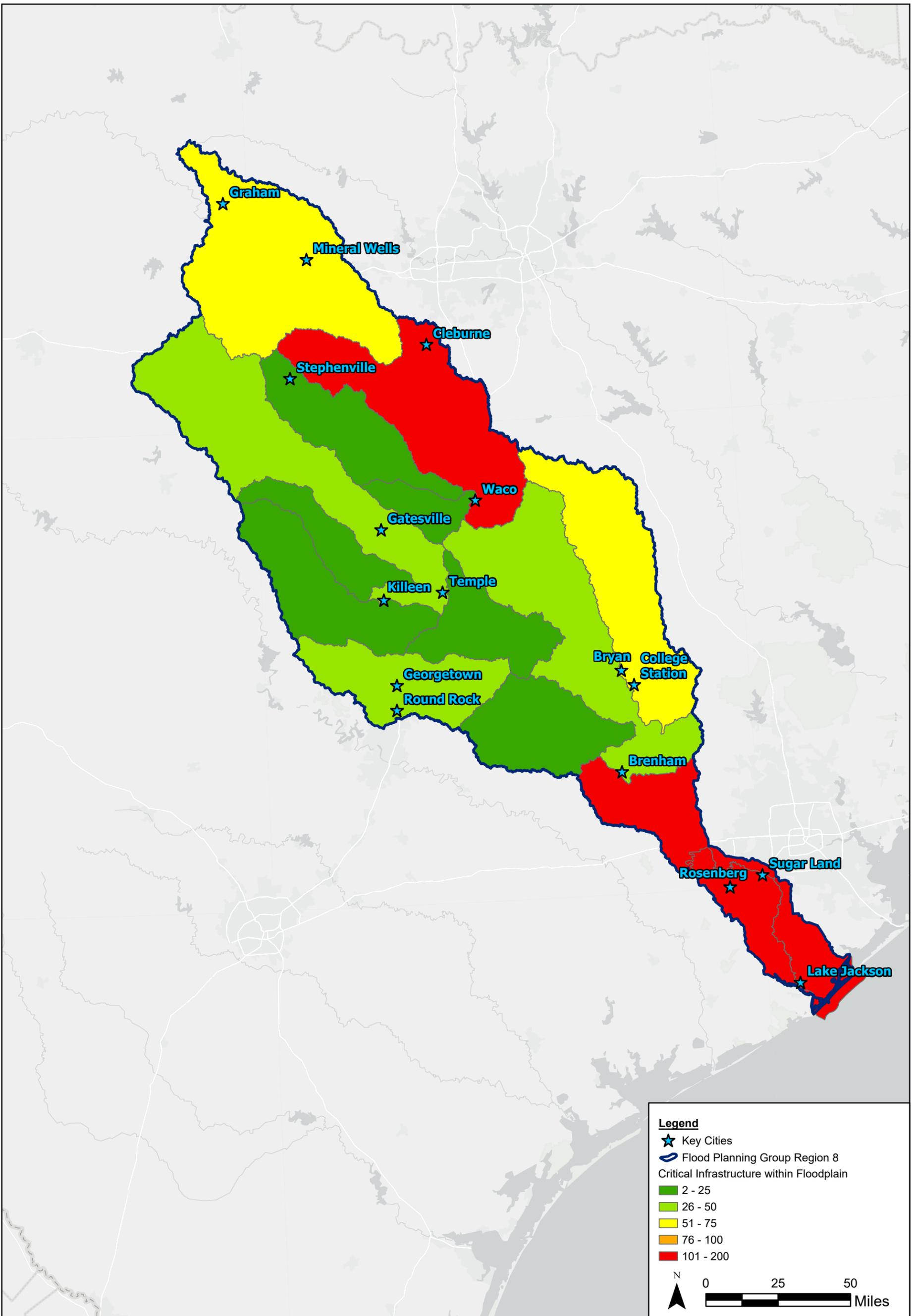


Exhibit 05	Date: Jun 2025 Scale: As Noted	 9303 NEW TRAILS DRIVE SUITE 400 THE WOODLANDS, TX 77381	Prepared: SCG	Checked: ESA	Approved: ESA	2028 REGION 8 (LOWER BRAZOS) REGIONAL FLOOD PLAN
			 TORRES & ASSOCIATES <small>ENGINEERS SCIENTISTS PROFESSIONALS</small>			CRITICAL INFRASTRUCTURE WITHIN THE FLOODPLAIN

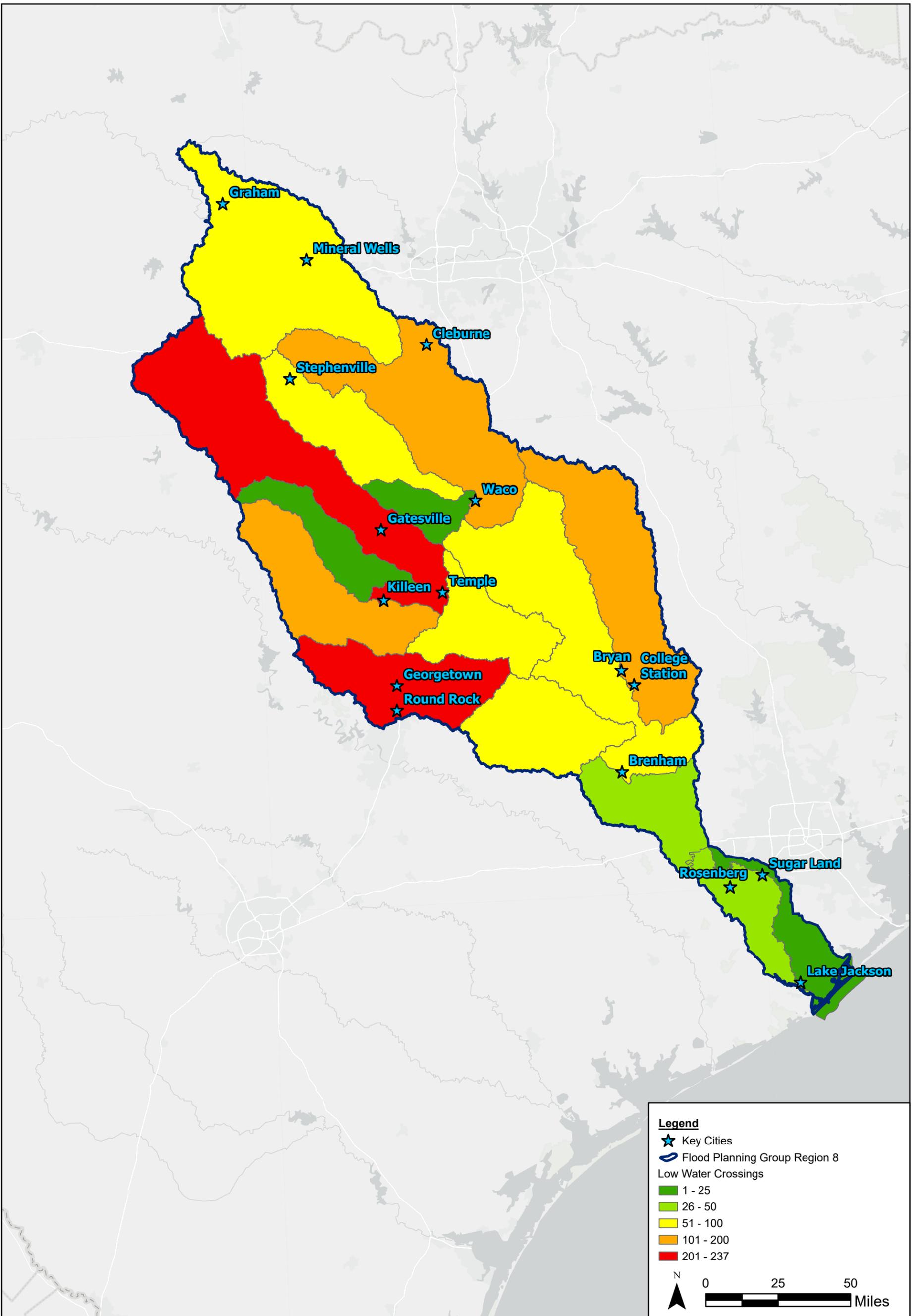


Exhibit 06	Date: Jun 2025 Scale: As Noted	 9303 NEW TRAILS DRIVE SUITE 400 THE WOODLANDS, TX 77381	Prepared: SCG	Checked: ESA	Approved: ESA	2028 REGION 8 (LOWER BRAZOS) REGIONAL FLOOD PLAN LOW WATER CROSSINGS
			 ENGINEERS SCIENTISTS PROFESSIONALS			

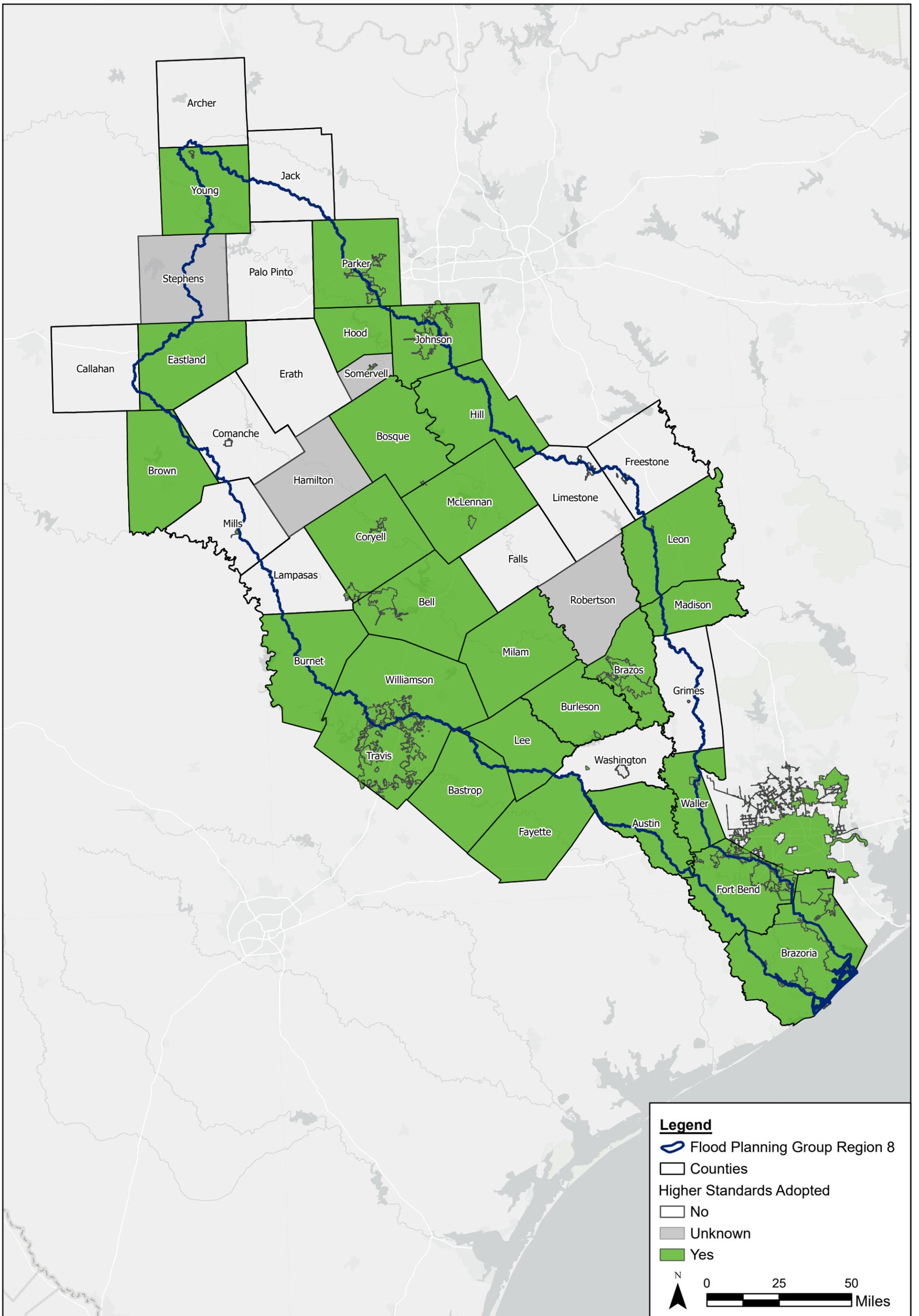


Exhibit 07	Date: Jun 2025 Scale: As Noted	 9303 NEW TRAILS DRIVE SUITE 400 THE WOODLANDS, TX 77381	Prepared: SCG	Checked: ESA	Approved: ESA	2028 REGION 8 (LOWER BRAZOS) REGIONAL FLOOD PLAN ENTITIES WITH HIGHER STANDARDS IDENTIFIED
			 ENGINEERS SCIENTISTS PROFESSIONALS			

Attachment 6

December 18, 2025 RFPG Meeting Minutes

**Attachment 6 will be included in the Final
Technical Memorandum package after RFPG
approval.**

Attachment 7

Technical Memorandum Administrative Completeness Checklist



Texas Water Development Board Regional Flood Planning Technical Memorandum Administrative Completeness Checklist

*The Technical Memorandum is due to the TWDB by the contractual deadline of **January 7, 2026**. Technical Memorandums reflect draft materials and interim RFPG decisions as of the date of submission and do not constitute final decisions, complete information, or data, etc. Instead, these submissions reflect a set of working information that is intended to demonstrate significant progress in developing each regional flood plan but that will likely change prior to final adoption and, in some cases, will be only partially complete at the time of this submission.*

Regional Flood Planning Group Name

The Technical Memorandum must be in accordance with the contract requirements when submitted to the Texas Water Development Board (TWDB). A list of the required items with check boxes has been provided below to assist you in completing the Technical Memorandum submissions. This checklist will be used by TWDB staff to verify that the basic submission requirements are met. It is provided to the flood planning regions and their consultants for convenience and to assist in the process. The TWDB encourages use of this checklist to ensure complete submissions. **RFPGs are asked to include this completed checklist in their Technical Memorandum submission.**

Checklist of required Technical Memorandum submission items

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
1. A list of existing political subdivisions within the Flood Planning Region (FPR) that have flood-related authorities or responsibilities.	1	Exhibit C Task 4B Item a	
2. Completed feature class: Entities. This feature class should be, at a minimum, partially complete and show entities with flood-related authority and whether they are actively engaged in flood planning, floodplain management, and flood mitigation activities. Feature class should conform to the Table 3 template provided in Exhibit D.	1	Exhibit D Table 1	
3. Completed feature class: ExFldInfraPol. This polygon feature class should include a general description of the location, condition, and functionality of existing natural flood mitigation features and constructed major flood infrastructure within the FPR. Feature class should conform to Exhibit D Table 6.	1	Exhibit D Table 1	
4. Completed feature class: ExFldInfraLn. This feature class should include a general description of the location, condition, and functionality of existing natural flood mitigation features and constructed major flood infrastructure within the FPR. Feature should conform to Exhibit D Table 7.	1	Exhibit D Table 1	

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
5. Completed feature class: ExFldInfraPt. This feature class should include a general description of the location, condition, and functionality of existing natural flood mitigation features and constructed major flood infrastructure within the FPR. Feature should conform to Exhibit D Table 8.	1	Exhibit D Table 1	
6. Completed polygon feature class: ExFldProjs. This feature class should represent all proposed or ongoing FMPs currently under construction, being implemented; and with dedicated funding to construct and the expected year of completion. Feature class should conform to Exhibit D Table 9.	1	Exhibit D Table 1	
7. Completed polygon feature class: Watersheds. This feature class includes watersheds associated with identified FMEs, FMPs, and FMSs.	1	Exhibit D Table 1	
8. Completed feature class: ExFldHazard. This feature class should identify location and magnitude of the 10%, 1%, and 0.2% annual chance floods and additional flood-prone areas. Feature class should conform to Exhibit D Table 10.	2A	Exhibit D Table 1	
9. Map 4: Existing Condition Flood Hazard (Exhibit C 2.2.A.1)	2A	Exhibit C Task 4B Item c & d	
10. Completed feature class: ExFldExpPol. This polygon feature class should show the results of existing condition flood exposure analyses, identifying who and what might be harmed within the region for, at a minimum, the 10%, 1.0%, and 0.2% annual chance flood events. Feature class should conform to Exhibit D Table 12.	2A	Exhibit D Table 1	

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
11. Completed feature class: ExFldExpLn. This feature class includes existing condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, 10%, 1.0%, and 0.2% annual chance flood event. Feature class should conform to Exhibit D Table 13.	2A	Exhibit D Table 1	
12. Completed feature class: ExFldExpPt. This point feature class should show the results of existing condition flood exposure analyses, identifying who and what might be harmed within the region for, at a minimum, 10% annual chance, 1.0% annual chance, and 0.2% annual chance flood events. Feature class should conform to Exhibit D Table 14.	2A	Exhibit D Table 1	
13. Completed feature class: ExFldExpAll. This feature class combines the Exposure Polygon, Line, and Point data into a single point layer that includes all Exposure and Vulnerability data. Identifies whether the exposure is a critical facility and provides the Social Vulnerability Index for each attribute. Feature class should conform to Exhibit C Table 15.	2A	Exhibit D Table 1	
14. Completed feature class: Ex_Map_Gaps. This feature class shows gaps in inundation boundary mapping. Feature class should conform to Exhibit D Table 11.	2A	Exhibit D Table 1	
15. Map 5: Existing Condition Flood Hazard – Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas (Exhibit C 2.2.A.1)	2A	Exhibit C Task 4B Item c & d	
16. Map 6: Existing Condition Flood Exposure. Existing Condition Flood Exposure (Exhibit C 2.2.A.2)	2A	Exhibit C Task 4B Item c	
17. Map 7: Existing Condition Vulnerability and Critical Infrastructure (Exhibit C 2.2.A.3)	2A	Exhibit C Task 4B Item c	

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
18. Completed feature class: FutFldHazard. This feature class shows the boundaries of future condition flood hazard analyses to determine the location and magnitude of 10%, 1%, and 0.2% annual chance flood events. Feature class should conform to Exhibit D Table 16.	2B	Exhibit D Table 1	
19. Map 8: Future Condition Flood Hazard (Exhibit C 2.2.B.1)	2B	Exhibit C Task 4B Item c	
20. Map 9: Extent of Increase of Flood Hazard Compared to Existing Condition (Exhibit C 2.2.B.1)	2B	Exhibit C Task 4B Item c	
21. Completed feature class: Fut_Map_Gaps: This feature class includes future gaps in inundation boundary mapping. Feature class should conform to Exhibit D Table 17.	2B	Exhibit D Table 1	
22. Map 10: Future Condition Flood Hazard - Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas (Exhibit C 2.2.B.1)	2B	Exhibit C Task 4B Item c	
23. Completed feature class: FutFldExpPol. This feature class includes future condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, 10%, 1.0%, and 0.2% annual chance flood event. Feature class should conform to the Exhibit D Table 18.	2B	Exhibit D Table 1	
24. Completed feature class: FutFldExpLn. This feature class includes future condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, 10%, 1.0%, and 0.2% annual chance flood event. Feature class should conform to the Exhibit D Table 19.	2B	Exhibit D Table 1	

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
25. Completed feature class: FutFldExpPt. This feature class includes future condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, 10%, 1.0%, and 0.2% annual chance flood event. Feature class should conform to the Exhibit D Table 20.	2B	Exhibit D Table 1	
26. Completed feature class: FutFldExpAll. This feature class combines the future exposure Polygon, Line, and Point data into a single layer, identifies whether the exposure is a critical facility, and provides the Social Vulnerability Index for each attribute. Feature class should conform to Exhibit D Table 21.	2B	Exhibit D Table 1	
27. Map 11: Future Condition Flood Exposure (Exhibit C 2.2.B.2)	2B	Exhibit C Task 4B Item c	
28. Map 12: Future Condition Vulnerability and Critical Infrastructure (Exhibit C 2.2.B.3)	2B	Exhibit C Task 4B Item c	
29. Completed feature class: ExFldMng. This polygon should identify areas with existing floodplain management practices, identify common and compare contrasting practices within the region, and acknowledge locations that may lack floodplain management. Feature class should conform to Exhibit D Table 22.	3A	Exhibit D Table 1	
30. General description and summary of those areas in the FPR that the RFPG considers having the greatest flood mitigation and flood risk study needs including, but not limited to, areas most prone to flooding that threatens life and property, areas identified flood-prone that don't have adequate inundation maps or H&H models, and areas with an emergency need.	3B	Exhibit C Task 4B Item f	

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
31. Map 14: Model Coverage (Exhibit C 2.3.B)	3B	Exhibit C Task 4B Item f	
32. Map 15: Greatest Gaps in Flood Risk Information (Exhibit C 2.3.B)	3B	Exhibit C Task 4B Item f	
33. Map 16: Greatest Flood Risk (Exhibit C 2.3.B)	3B	Exhibit C Task 4B Item f	
34. Completed feature class: Goals. Feature class should conform to Exhibit D Table 23.	3C	Exhibit D Table 1	
35. Table 11: Goals. Summary table of specific and achievable flood mitigation and floodplain management goals adopted by the RFPG per §361.36.	3C	Exhibit C Task 4B Item g	
36. The documented process used by the RFPG to identify potentially feasible FMSs and FMPs.	4A	Exhibit C Task 4B Item h	
37. Completed feature class: Streams. Stream features should be included for all identified FMEs, FMPs and FMSs, as applicable. Feature class should conform to Exhibit D Table 24.	4A	Exhibit D Table 1	
38. A written list of potential FMEs identified by the RFPG, if any. This information should be included in limited field Exhibit C Table 12 Identified flood management evaluations. The information should be generated from the limited fields feature class: FME.	4A	Exhibit C Task 4B Item i	
39. Limited fields feature class: FME. This feature class should show flood management evaluations identifying areas requiring flood risk evaluation. Feature class should conform to Exhibit D Table 25.	4A	Exhibit D Table 1	
40. A written list of potentially feasible FMPs identified by the RFPG, if any. This information should be included in limited field Exhibit C Table 13 Identified flood mitigation projects. The information should be generated from the limited fields feature class: FMP.	4A	Exhibit C Task 4B Item i	

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
41. Limited fields feature class: FMP. This feature class should show service areas of identified flood risk mitigation projects. Feature class should conform to Exhibit D Table 26.	4A	Exhibit D Table 1	
42. A written list of potentially feasible FMSs identified by the RFPG, if any. This information should be included in limited field Exhibit C Table 14 Identified flood management solutions. The information should be generated from the limited fields feature class: FMS.	4A	Exhibit C Task 4B Item i	
43. Limited fields feature class: FMS. Not all FMS need to be included in this feature class. When an FMS points to a specific area, as opposed to being a general strategy for an entire entity’s jurisdiction, the target area should be represented by a polygon. Feature class should conform to Exhibit D Table 28.	4A	Exhibit D Table 1	
44. A list of FMSs and FMPs that were identified but determined by the RFPG to be infeasible, including the primary reason for it being infeasible.	4B	Exhibit C Task 4B Item j	
45. Complete feature class: Model Coverage. This polygon feature class should show the boundaries of where existing hydrologic and hydraulic models needed to evaluate FMSs and FMPs are available. It should conform to Exhibit D Table 29.	4B	Exhibit D Table 1	
46. A written list of available flood-related models that the RFPG considers of most value in developing its plan.	4B	Exhibit C Task 4B Item e.	
47. A list of previous and ongoing flood studies considered by the RFPG to be relevant to development of the RFP.	4B	Exhibit C Task 4B Item b	

Deliverable Name & Description	SOW Task	Requirement Reference	Submission Notes (If any)
<p>48. Written documentation that the RFPG approved submittal of the Technical Memorandum to TWDB at a RFPG meeting subject to notice requirements in accordance with 31 TAC §361.21(h) (signed meeting minutes would satisfy this requirement). The Technical Memorandum must be submitted to TWDB in accordance with Section I Article I of the contract.</p>	4B	Contract	