Task 13 - Sponsor Requested FMEs (County)

Batch	Page	New Action Number	Old Action Number (To be removed)	Туре	Sponsor	Project	Notes	TC Rec (Y/N)	Tech Committee Rec Date	RFPG Rec (Y/N)	RFPG Rec Date
3	2	101000221		FME	Burnet County	Burnet County Lower Water Crossings	New FME	Yes	5/15/2023		
3	3	101000222		FME	Burnet County	Burnet County Modeling and Mapping Update	New FME	Yes	5/15/2023		
3	4	101000223		FME	Caldwell County	Caldwell County Flood Early Warning System	New FME	Yes	5/15/2023		
3	5	101000224		FME	Caldwell County	Lytton Springs Creek Near CR 174	New FME	Yes	5/15/2023		
3	6	101000225		FME	Caldwell County	CR175 @ Cedar Creek Trib 1	New FME	Yes	5/15/2023		
3	7	101000228		FME	Lee County	Cummins Creek WS SCS Site 1 Dam Flood Management Evaluation	New FME	Yes	5/15/2023		
3	8	101000240		FME	Wharton County	Town of Boling Drainage Master Plan	New FME	Yes	5/15/2023		
3	9	101000241		FME	Wharton County	Louise Drainage Master Plan	New FME	Yes	5/15/2023		
3	10	101000243		FME	Matagorda County Conservation Reclamation District	Colorado River Levee Gate Structure Improvements	New FME	Yes	5/15/2023		
3	11	101000244		FME	Wharton County	El Lobo Neighborhood Drainage Improvements	New FME	Yes	5/15/2023		
3	12	101000245		FME	Wharton County	Pecan Valley Phase 2 Preliminary Engineering Report	New FME	Yes	5/15/2023		

Title Burnet County Lower Water Crossing Assessment ID# 101000221

Sponsor (name of entity) Burnet (County) Commitment x Yes No

REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes

Emergency preparedness Floodplain modeling, mapping and risk assessment

Feasibility study

Preliminary project engineering

Other

Problem Area

City Bastrop County Burnet

Watershed name(s) Pedernales

County Burnet

Burnet

County Burnet

Public Bastrop County Burnet

Public Bastrop County Burnet

Tributary(ies) Multiple

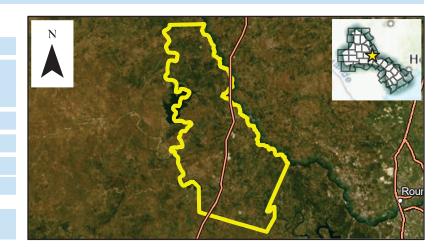
UC# 12090205,12090201 Stream miles (est.) 1.45

Drainage area: square miles, est 533.64 or acreage, est. 341,530

Social vulnerability index 0.32

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

Burnet County is located in flash flood alley and is fairly rural in nature. In the Lower Colorado-Lavaca planning region, there are 59 low water crossings in Burnet County, however evaluation of all stream crossings likely results in a higher number of designated lower water crossings. This assessment should be conducted after the updated modeling and mapping utilizing Atlas 14 rainfall data is conducted in this portion of the County.

RFPG recommend X Yes No

Population at risk 6,359

Structures at risk 3,799

Critical facilities at risk 4

Farm/Ranch land impacted (acres) 16,335

Roadway(s) impacted (miles)

34.19

Scope of Study

The assessment of low water crossings includes the evaluation of existing condition level of service, average daily traffic, and emergency access routes to understand risk of each crossing. Following the assessment, low water crossings can be prioritized to support future implementation of improvements.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$150,000

Title Burnet County Modeling and Mapping Update ID# 101000222

Sponsor (name of entity) Burnet (County) Commitment x Yes No

REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes

Emergency preparedness Floodplain modeling, mapping and risk assessment

Feasibility study

Preliminary project engineering

Other

Problem Area

City Bastrop County Burnet

Watershed name(s)

Piney Creek-Colorado River

Tributary(ies) Multiple

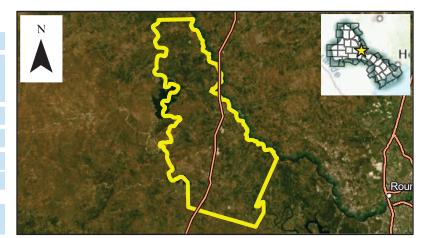
HUC# 12090205,12090201 Stream miles (est.) 1.45

Drainage area: square miles, est 533.64 or acreage, est. 341,530

Social vulnerability index 0.32

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

Burnet County is located in flash flood alley and is fairly rural innature. In the Lower Colorado-Lavaca planning region, there are approximately 1,450 riverine stream miles that need updated analysis utilizing the best available science (software, Atlas14 rainfall) and data (topography) to identify flood exposure.

RFPG recommend X Yes No

Population at risk 6,359

Structures at risk 3,799

Critical facilities at risk 4

Farm/Ranch land impacted (acres) 16,335

Roadway(s) impacted (miles)

34.19

Scope of Study

The study should include the development of updated hydrologic and hydraulic models utilizing the best available science and data. Updated floodplain maps can then be used for regulation and update of outdated FEMA maps in this portion of Burnet County.

Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$4,000,000

Title Caldwell County Flood Early Warning System ID# 101000223

Sponsor (name of entity) Caldwell (County) Commitment x Yes No

REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes

x Emergency preparedness
 Difference of the properties
 Floodplain modeling, mapping and risk assessment
 Feasibility study
 Preliminary project engineering

RFPG recommend x Yes

Problem Area

City N/A

County Caldwell

Watershed name(s) River, and Lower San Marcos River

Tributary(ies) TBD

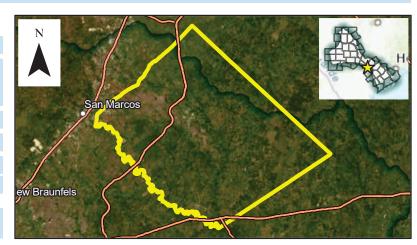
HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 544.69 or acreage, est. 348,604

Social vulnerability index 0.83

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

Caldwell County and other local participating entities should review existing flood early warning system equipment, procedures, and training to ensure that emergency responders can meet residents' needs in an efficient, safe, and timely manner during a flood event.

Population at risk 113 Structures at risk 99 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 4,279 Roadway(s) impacted (miles) 3.62

Scope of Study

Review of existing gages and flood early warning system equipment. Evaluate software and hardware required to develop and/or improve flood early warning system effectiveness. Coordinate with local participating communities to develop a set of flood early warning system development/improvement goals. Develop a budget to develop/upgrade the flood early warning system. Develop a budget and strategy to ensure long term future funding of the flood early warning system.

Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$50,000 Potential funding source(s) TBD

ID# 101000224 Title Lytton Springs Creek Near CR 174 Sponsor (name of entity) Caldwell (County) Commitment x Yes Technical committee recommend X Yes

Lower Colorado-Lavaca **REGIONAL FLOOD** PLANNING GROUP

Study Type

Floodplain modeling, mapping and risk assessment Feasibility study **Emergency preparedness** Preliminary project engineering Other

RFPG recommend x Yes

Problem Area

County Caldwell City Dale Watershed Lytton Springs Creek name(s) Tributary(ies) TBD 12090301 HUC# Stream miles (est.) 1.10 70 Drainage area: square miles, est 0.11 or acreage, est. Social vulnerability index 0.83 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) Other



Flood Risk Description

Based on hydraulic modeling of existing conditions, approximately 14 residential and agricultural structures lie within the 1% AEP floodplain on the south side of CR 174 at the downstream end of Lytton Springs Creek.

Population at risk 13 Critical facilities at risk 0 Structures at risk 12

Farm/Ranch land impacted (acres) 51 Roadway(s) impacted (miles) 0.02

Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

\$40,000

Title CR175 @ Cedar Creek Trib 1 ID# 101000225

Sponsor (name of entity) Caldwell (County) Commitment x Yes No

Technical committee recommend x Yes No RFPG recommend x Yes No

REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Emergency preparedness	Floodplain modeling, mapping and risk assessment	Feasibility study	Preliminary project engineering
Other			

Problem Area

City	Dale		Coun	ty Caldwell				
,				Calatten				
	ershe ame(s	d Cedar Creek						
Tributary(ies) TBD								
HUC	# 1	2090301	Stream miles (est.) 0.81					
Drainage area: square miles, est 0.14 or acreage, est. 88								
Social vulnerability index 0.83								
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)								
Othe	r							



Flood Risk Description

CR 175 (Tomahawk Trail) has been identified by Caldwell County as a priority crossing in need of upgrade. The crossing remained closed for 2 days during Hurricane Harvey and is inundated by the 1% AEP storm event. Existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of the potential risk and potential flood risk reduction to be used in evaluating the project.

Population at risk 0 Structures at risk 0 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 59 Roadway(s) impacted (miles) 0.21

Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$40,000

tle Cummins Creek WS SCS Site 1 Dam Flood Management Evaluation ID# 101000228

Commitment x Yes

Technical committee recommend x Yes No RFPG recommend x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Flo

Sponsor (name of entity) Lee (County)

Floodplain modeling, mapping and risk assessment

Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A County Lee
Watershed Onion Creek-Colorado River
name(s)

Tributary(ies) TBD

HUC# 12090301

Stream miles (est.) 4.26

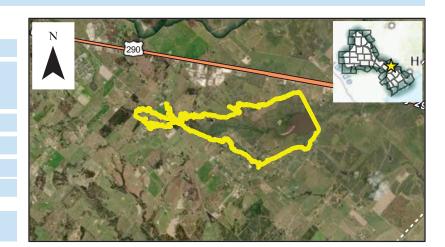
Drainage area: square miles, est 1.16 or a

or acreage, est. 742

Social vulnerability index 0.255374363217598

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

During major flood events on Cummins Creek the backwater created by the subject dam floods approximately 25 to 50 homes. The backwater flooding also cuts access to the area due to inundation of County Roads 233 and 226. Backwater flooding in this area is also likely aggravated by sedimentation behind the dam. The most extreme of these recent flood events was Hurricane Harvey in 2017, but the area also flooded in 2015 and 2016. Prior flooding has led to implementation of two separate buyout programs, one for the 2016 floods and a separate one for Hurricane Harvey. The flood risk area is currently the focus of several ongoing grants and other efforts to improve the situation, including an effort to raise the elevation of CR 226 and construct a new bridge to allow evacuation of residents. One potential flood risk reduction effort that has not previously been evaluated is to reduce the backwater area by lowering the elevation of the dam spillway or other modifications.

Population at risk 44 Structures at risk 47 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 579 Roadway(s) impacted (miles) 1.19

Scope of Study

The scope of the study would include: 1) hydrology and hydraulic modeling to confirm and further assess and quantify flood risk and exposure; 2) a preliminary assessment of the technical feasibility of modifying the dam; 3) development of preliminary construction and O&M costs to modify the dam; 4) conduct of a cost/benefit analysis; 5) evaluation of potential constraints to implementation of alternatives (e.g., environmental, water rights, regulatory, dam safety, constructability; and 6) comparative analysis of other flood reduction measures (e.g., additional property buyouts, raise elevation of affected roadways). The results of the study will be documented in a report with recommendations.

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$100,000

Title Town of Boling Drainage Master Plan ID# 101000240

Sponsor (name of entity) Wharton (County) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes

Emergency preparedness Floodplain modeling, mapping and risk assessment x Feasibility study Preliminary project engineering Other

RFPG recommend x Yes

Problem Area

City Boling County Wharton

Watershed name(s)

Tributary(ies) TBD

HUC# 12090402 Stream miles (est.) TBD

Drainage area: square miles, est 0.94 or acreage, est. 602

Social vulnerability index 0.76
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

Town of Boling floods frequently due to poor existing drainage infrastructure. Known concerns include undersized roadside ditch sizes, and an undersized storm drain system. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk 42 Structures at risk 14 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 37 Roadway(s) impacted (miles) 0.09

Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructibility), and will include InfoWorks ICM and RAS 2D analysis of the urban center of Boling. It will also include a regional evaluation of flooding from Caney Creek.

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$150,000 Potential

Title Louise Drainage Master Plan ID# 101000241

Sponsor (name of entity) Wharton (County) Commitment x Yes No

REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Floodplain modeling, mapping and risk assessment

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Louise County Wharton

Watershed East Mustang Creek and Middle Mustang Creek name(s)

Tributary(ies) TBD

HUC# 12100102

Stream miles (est.) TBD

Drainage area: square miles, est 8.27

Technical committee recommend X Yes

or acreage, est.

t. 5,295

RFPG recommend x Yes

Social vulnerability index 0.49

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

Flood Risk from Middle Mustang Creek and East Mustang Creek, Local drainage flood risk.

Population at risk 63

Structures at risk 50

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 1,123

Roadway(s) impacted (miles)

5.15

Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructibility).

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$150,000

Title Colorado River Levee Gate Structure Improvements ID# 101000243

Sponsor (name of entity) Commitment x Yes No

Technical committee recommend x Yes No RFPG recommend x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Floodplain

Floodplain modeling, mapping and risk assessment

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Bay City County Wharton

Watershed name(s)

Tributary(ies) TBD

HUC# 12090302 Stream miles (est.) TBD

Drainage area: square miles, est 361.18 or acreage, est. 231,153

Social vulnerability index 0.82

(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

City of Bay City is protected by the Colorado River East Levee. Many of the culverts under this levee have need of a gate structure or improved gate structure to protect the City from an extreme flood along the Colorado River.

Population at risk 6,869

Structures at risk 3,531

Critical facilities at risk 4

Farm/Ranch land impacted (acres) 83,083

Roadway(s) impacted (miles)

152.56

Scope of Study

Conduct a study to evaluate benefit-costs and define construction cost for new gate structures along the Eastern Colorado River Levee near Bay City, TX. The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructibility).

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$100,000

Title El Lobo Neighborhood Drainage Improvements ID# 101000244

Sponsor (name of entity) Wharton (County) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes

Emergency preparedness	Floodplain modeling, mapping and risk assessment	x Feasibility study	Preliminary project engineering
Other			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

RFPG recommend x Yes

Problem Area

City	N/	I/A County Wharton						
Watershed San Bernard River name(s)								
Tributary(ies) TBD								
HUC	#	12090401 Stream miles (est.) TBD						
Drainage area: square miles, est 1.97 or acreage, est. 1,262								
Social vulnerability index 0.81 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)								
Othe	er							



Flood Risk Description

Flood risk from the San Bernard River exceeds local drainage capacity resulting in localized flooding in the El Lobo subdivision. Unsafe conditions limit neighborhood ingress/egress. The existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk 223 Structures at risk 136 Critical facilities at risk 0

Farm/Ranch land impacted (acres) 562 Roadway(s) impacted (miles) 5.68

Scope of Study

Conduct a study to evaluate benefit-costs and define construction cost for levee improvements, channel improvements, and drainage improvements. Study will include hydro modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cos! evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructibility),

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways.

Estimated Study Cost

Cost \$50,000 Potential

Title Pecan Valley Phase 2 Preliminary Engineering Report ID# 101000245

Sponsor (name of entity) Wharton (County) Commitment x Yes No

REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend x Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A

Watershed Colorado River name(s)

Tributary(ies) TBD

HUC# 12090302 Stream miles (est.) TBD

Drainage area: square miles, est 2.29 or acreage, est. 1,466

Social vulnerability index 0.79 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other



Flood Risk Description

Flood Risk from local drainage as well as overflows from the Colorado River inundate county roads causing unsafe conditions for motorists using the roads for neighborhood ingress/egress. The existing risk factors are based on available data and will be better defined as part of the study. Study results will include detailed assessments of existing flood risk and potential flood risk reduction to be used in evaluating projects for future funding cycles.

Population at risk 141

Structures at risk 86

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 1,320

Roadway(s) impacted (miles)

4.67

Scope of Study

Conduct a study to evaluate benefit-costs and define construction cost for levee improvements, channel improvements, and drainage improvements. Study will include hydro modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cos! evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructibility),

Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$100,000