Title Frisch Auf Buyout ID# 101000119

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

Technical committee recommend x Yes No REPG recommend x Yes No

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Emergency preparedness F

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes No

x Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A

County Fayette

Watershed Lower Buckners Creek name(s)

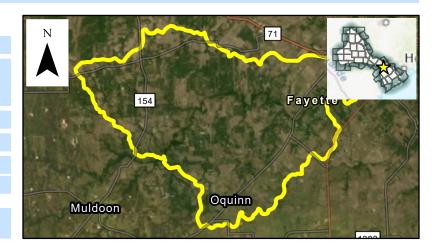
Tributary(ies) Unnamed Tributary

HUC# 12090301,12100102 Stream miles (est.) TBD

Drainage area: square miles, est 54.14 or acreage, est. 34,649

Social vulnerability index 0.11

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



Flood Risk Description

Other Voluntary buyout

There are multiple flood prone properties that are within the 100-year floodplain may be subject to repetitive loss.

Population at risk 92

Structures at risk 91

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 5,823

Roadway(s) impacted (miles)

4.00

Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners and if the properties should be elevated or removed.

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

Estimated Study Cost

Cost \$100,000

Title Flood Proof Wastewater Treatment Plants ID# 101000120

Sponsor (name of entity) Flatonia (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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 Flatonia County Fayette

Watershed Mulberry Creek - West Navidad River name(s)

. ,

Tributary(ies) Unnamed Tributary

HUC# 12100202,12100102 Stream miles (est.) TBD

Drainage area: square miles, est 1.67 or acreage, est. 1,071

Social vulnerability index 0.11

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

Other Local Plans & Regulations



Flood Risk Description

The wastewater treatment plant experiences flooding during low frequency rain events. The Sponsor has identified the need to floodproof the existing wastewater treatment plant. Study results will provide a more detailed assessment of existing flood and potential flood risk. Study will determine if flood proofing will provide mitigation required or if structural mitigation will be required.

Population at risk 1,500

Structures at risk 700

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 150

Roadway(s) impacted (miles)

Scope of Study

If structural flood mitigation, other than flood proofing, is required then the 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)

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

Estimated Study Cost

Cost \$50,000

Title Various Streets - Install Flood Early Warning Systems ID# 101000121

Sponsor (name of entity) Fort Bend (County) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

Floodplain modeling, mapping and risk assessment

564,943

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A County Fort Bend

Watershed Multiple Watersheds

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090401,12070104 St

Stream miles (est.) TBD

Drainage area: square miles, est 882.72 or acreage, est.

Social vulnerability index 0.09

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

Other Install Flood Early Waning System



Flood Risk Description

The city has identified multiple roadway crossings that overtop and where structural improvements are not feasible. Proposed study will identify priority crossings to receive flood warning systems or other safety improvements.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

26.03

Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes).

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 \$150,000

ID# 101000122 Carriage Hills Title Sponsor (name of entity) Fredericksburg (Municipality) Commitment x Yes Lower Colorado-Lavaca **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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Fredericksburg

County Gillespie

Watershed Barons Creek

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090206

Stream miles (est.) TBD

Drainage area: square miles, est 0.02

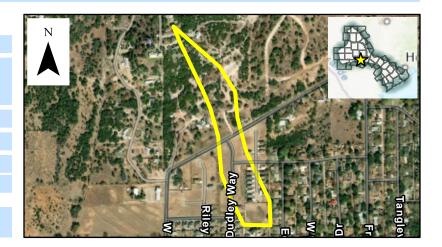
or acreage, est.

16

Social vulnerability index 0.1

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

Other Channel Improvements



Flood Risk Description

The area of concern lacks a storm drain system and stormwater is conveyed via streets. The area is subject to localized flooding and channel erosion. The city has identified local drainage improvements including adding curbs, constructing a new channel, increasing the capacity of an existing pond, and replacing the pond outlet structure. 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 40

Structures at risk 15

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

Scope of Study

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, rightof-way needs, and constructability).

Related Goal(s)

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

Estimated Study Cost

\$100,000

Title Post Oak Subdivision ID# 101000123

Sponsor (name of entity) Fredericksburg (Municipality) Commitment x Yes No

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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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Fredericksburg County Gillespie

Watershed Muesebach Creek - Pedernales River name(s)

Tributary(ies) Unnamed Tributary

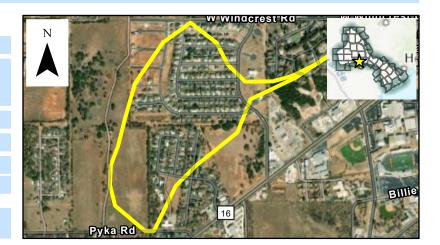
HUC# 12090206 Stream miles (est.) TBD

Drainage area: square miles, est 0.13 or acreage, est. 84

Social vulnerability index 0.1

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

Other Roadway/Crossing Improvements / Channel Improvements



Flood Risk Description

The existing crossing is undersized and overtops. The proposed improvements include improving the channel, raising the road, and adding multi-box (6) culvert. The existing road is a 2-lane road with an average daily traffic count of 265. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.50

Scope of Study

Conduct a study to evaluate the area. 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$150,000

Title Alum Creek - Tributary 8, Bowie Drive ID# 101000125

Sponsor (name of entity) Bastrop (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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City N/A

County Bastrop

Watershed Alum Creek
name(s)

Tributary(ies) Price Creek

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 0.67 or acreage, est. 428

Social vulnerability index 0.61
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Roadway/Crossing Improvements



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing consists of multiple corrugated metal pipes. The proposed improvements include replacing the pipes with a larger multi-box culvert. The existing road is a 2-lane road with an average daily traffic count of 320. 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.

RFPG recommend X Yes No

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 6

Roadway(s) impacted (miles)

0.02

Scope of Study

Conduct a study to evaluate upsizing the existing low water 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

Title Flood Proofing Repetitive Loss Structures ID# 101000126

Sponsor (name of entity) Mountain City (Municipality) Commitment x Yes No

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

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Mountain City

County Hays

Watershed Mustang Branch - Onion Creek

Technical committee recommend X Yes

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090205,12100203

Stream miles (est.) TBD

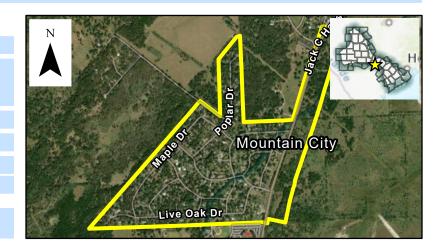
Drainage area: square miles, est 0.42

or acreage, est. 268

Social vulnerability index 0.17

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

Other Local Plans & Regulations



Flood Risk Description

The project area is adjacent to the 100-year floodplain and contains multiple repetitive loss structures. The Sponsor has identified the need to flood proof repetitive loss structures (unspecified number and type) to prevent additional/future flood loss.

Population at risk 150

Structures at risk 50

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.00

Scope of Study

Study will develop project costs and repetitive loss structures. The study will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

Estimated Study Cost

Cost \$50,000

ID# 101000127 Wastewater Treatment Plant Floodproofing Sponsor (name of entity) Edna (Municipality) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes No

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Edna County Jackson Watershed Post Oak Branch - Dry Creek name(s) Tributary(ies) Dry Creek, Post Oak Branch 12100101,12100102 Stream miles (est.) TBD Drainage area: square miles, est 4.06 or acreage, est. 2,601 Social vulnerability index 0.51 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)



Flood Risk Description

Other Local Plans & Regulations

The wastewater treatment plant experiences flooding during low frequency rain events. The Sponsor has identified the need to floodproof the existing wastewater treatment plant. Study results will provide a more detailed assessment of existing flood and potential flood risk. Study will determine if flood proofing will provide mitigation required or if structural mitigation will be required.

Population at risk 0

Structures at risk 0

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

Scope of Study

If structural flood mitigation, other than flood proofing, is required then the 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

Estimated Study Cost

\$200,000

Title City Hall Hardening and Safe Room ID# 101000128

Sponsor (name of entity) Ganado (Municipality) Commitment x Yes No

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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 Ganado

Watershed Devers Creek - Mustang Creek name(s)

Tributary(ies) Unnamed Tributary

HUC# 12100102 Stream miles (est.) TBD

Drainage area: square miles, est 0.00 or acreage, est. 0

Social vulnerability index 0.51 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Local Plans & Regulations



Flood Risk Description

The current facility is located adjacent to the 100-year floodplain. The study will investigate the cost level of effort for hardening and the addition of a safe room.

Population at risk 0

Structures at risk 0

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.00

Scope of Study

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)

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. 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation.

Estimated Study Cost

Cost \$100,000

Title Palmetto Bend Spillway ID# 101000129

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

Lower Colorado-Lavaca
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 County Jackson

Watershed Chicolete Creek - Navidad River name(s)

Tributary(ies) Navidad River

HUC# 12100102 Stream miles (est.) 0.00

Drainage area: square miles, est 0.12 or acreage, est. 79

Social vulnerability index 0.51

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

Other Dam Improvements



Flood Risk Description

Lake Texana is a large earthen embankment dam with a multiple-gate concreate spillway that is traversed by FM 3131. The dam has limited ability to quickly deploy/install stop-logs in front of the gates in an emergency and has identified the need to develop an emergency stop log deployment system. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 150

Structures at risk 50

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 13

Roadway(s) impacted (miles)

0.10

Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to determine how stop log installation could impact dam operations, 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)

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

Estimated Study Cost

Cost \$250,000

Title Relocate Fire Department Building ID# 101000130

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

Lower Colorado-Lavaca
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 County Llano

Watershed Peters Creek - Lake Lyndon B Johnson name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090201

Stream miles (est.) TBD

Drainage area: square miles, est 0.00

or acreage, est.

Social vulnerability index 0.19

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

Other Local Plans & Regulations



Flood Risk Description

The Kingsland Volunteer Fire Department is located within the 100-year floodplain. The study will investigate possible sites and cost for relocation and may include the need to extend floodplain models upstream to verify the new location is outside the floodplain.

Population at risk 0

Structures at risk 0

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.06

Scope of Study

The siting study will focus on finding a suitable location for the new facility. Depending on the location the study may 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$250,000

Title Police Station Relocation and Safe Room ID# 101000131

Sponsor (name of entity) Palacios (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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 Palacios County Matagorda

Watershed Tres Palacios River - Frontal Tres Palacios Bay name(s)

Tributary(ies) Unnamed Tributary

HUC# 12100401

Stream miles (est.) TBD

Drainage area: square miles, est 0.00

or acreage, est. 1

Social vulnerability index 0.84

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

Other Local Plans & Regulations



Flood Risk Description

The police station is located within the 100-year floodplain. The study will investigate possible sites and cost for relocation and addition of a safe room and may include the need to extend floodplain models upstream to verify the new location is outside the floodplain.

Population at risk 0

Structures at risk 0

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.00

Scope of Study

The siting study will focus on finding a suitable location for the new facility. Depending on the location the study may 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$250,000

Title Highway 36 ID# 101000136

Sponsor (name of entity) Jones Creek (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Jones Creek

Watershed Mound Creek, Bell Creek
name(s)

Tributary(ies) Unnamed Tributary

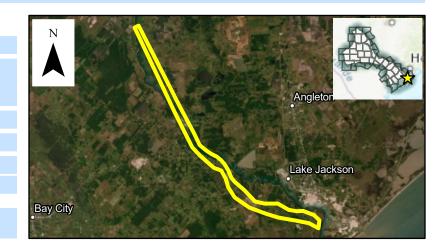
HUC# 12090401,12070104 Stream miles (est.) TBD

Drainage area: square miles, est 34.20 or acreage, est. 21,890

Social vulnerability index 0.21

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

Other Roadway/Crossing Improvements / Channel Improvements



Flood Risk Description

The existing crossings are undersized and overtop. The proposed improvements include widening roadside ditches and upsizing the existing cross culverts. The existing road is a 4-lane highway with an average daily traffic count of 18,407. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

23.10

Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossings. 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

Title CR257 at Pecan Bayou (Tenmile Crossing) ID# 101000137

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

Floodplain modeling, mapping and risk assessment

x Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A County Brown

Watershed Double Creek - Pecan Bayou name(s)

Tributary(ies) Pecan Bayou

HUC# 12090107 Stream miles (est.) TBD

Drainage area: square miles, est 0.00 or acreage, est. 0

Social vulnerability index 0.28 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Roadway/Crossing Improvements / Channel Improvements



Flood Risk Description

The existing bridge is undersized and overtops. The proposed improvements will upgrade the bridge based on the Texas Department of Transportation Hydraulic Design Manual. The existing road is a 2-lane road with an average daily traffic count of 175. 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.

RFPG recommend X Yes No

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.05

Scope of Study

Conduct a study to evaluate the 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

Title Dam Emergency Action Plan ID# 101000138

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

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

RFPG recommend X Yes

Other

Problem Area

City Burnet County Burnet

Watershed Clear Creek - Inks Lake, Headwaters Hamilton Creek name(s)

Tributary(ies) Unnamed Tributary

Technical committee recommend x Yes

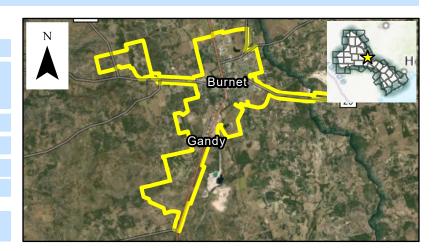
HUC# 12090201,12090205 Stream miles (est.) TBD

Drainage area: square miles, est 10.79 or acreage, est. 6,906

Social vulnerability index 0.19

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

Other Local Plans & Regulations



Flood Risk Description

The Sponsor has identified the need to develop/update an emergency action plan for the safety of the community.

Population at risk 807

Structures at risk 187

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 589

Roadway(s) impacted (miles)

4.18

Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes).

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.

Estimated Study Cost

Cost \$50,000

Title City of Buda Garlic Creek Culvert ID# 101000153

Sponsor (name of entity) Buda (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Buda County Hays

Watershed Mustang Branch - Onion Creek name(s)

Technical committee recommend X Yes

Tributary(ies) Garlic Creek

HUC# 12090205 Stre

Stream miles (est.) TBD

Drainage area: square miles, est 4.42 or acreage, est. 2,831

Social vulnerability index 0.17

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing culvert on RM967 near Garlic Creek is undersized and the roadway overtops. The existing box culvert was not upgraded when the road was reconstructed. The study will evaluate the crossing for possible upsizing of the culvert. The existing road is a 2-lane road with an average daily traffic count of 17,400. 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 450

Structures at risk 150

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.38

Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossings. 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)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 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 \$100,000

Title Taylor Lane Drainage Improvements ID# 101000155

Sponsor (name of entity) Elgin (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Elgin County Bastrop

Technical committee recommend X Yes No

Watershed Elm Creek - Dry Creek, Little Sandy Creek, Little Sandy Creek - name(s) Big Sandy Creek

Tributary(ies) Burlson Creek

HUC# 12090301

Stream miles (est.) TBD

Drainage area: square miles, est 2.09 or acreage, est. 1,340

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The sponsor has indicated the existing stormwater infrastructure in the study area (northeastern part of the City) is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 50

Structures at risk 14

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 112

Roadway(s) impacted (miles)

0.18

Scope of Study

Conduct a study to evaluate the study area. 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)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 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 \$100,000

Title Storm Water Detention at Morris Park ID# 101000156

Sponsor (name of entity) Elgin (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes No

Emergency preparedness Floodplain modeling, mapping and risk assessment

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Elgin

Watershed Little Sandy Creek name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 0.17 or acreage, est. 107

Social vulnerability index 0.61 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Regional Detention



Flood Risk Description

The City has identified the need for additional stormwater storage to reduce the flood risk to the surrounding areas. The sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

RFPG recommend X Yes

Population at risk 375

Structures at risk 125

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.00

Scope of Study

Conduct a study to evaluate the area. 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)

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

Estimated Study Cost

Cost \$150,000

Title Citywide Storm Drain Infrastructure Modeling ID# 101000158

Sponsor (name of entity) Austin (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness x Flood

Technical committee recommend X Yes

x Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City Austin County Travis

Watershed name(s)

Tributary(ies) Unnamed Tributary

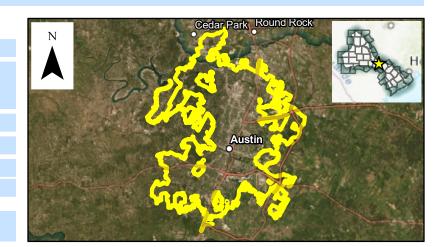
HUC# 12090205,12070205 Stream miles (est.) TBD

Drainage area: square miles, est 279.33 or acreage, est. 178,771

Social vulnerability index 0.15

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

Other Drainage System Improvements



Flood Risk Description

1D and 2D models are needed for the entire City to evaluate and design upgrades to the existing storm drain systems. The study will update existing 1D models based on new drainage criteria and data, perform QA/QC on previously completed storm drain models, develop new 1D storm drain models for previously unstudied systems, develop 2D system models for unstudied watersheds, and update 2D system models for previously completed 2D model studies.

Population at risk 62,070

Structures at risk 5,696

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 7,306

Roadway(s) impacted (miles)

111.76

Scope of Study

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)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$12,600,000

ID# 101000159 Wastewater Treatment Plant Flood Study Sponsor (name of entity) Burnet (Municipality) Commitment x Yes Lower Colorado-Lavaca **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 Burnet County Burnet Watershed Headwaters Hamilton Creek name(s) Tributary(ies) Hamilton Creek

HUC# 12090205

Stream miles (est.) TBD

Drainage area: square miles, est 0.06

or acreage, est. 37

Social vulnerability index 0.19

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

Other Watershed Study



Flood Risk Description

The plant is located within, and may be impacted by, the 100-year floodplain of Hamilton Creek and/or Headwaters of Hamilton Creek. The area has existing local drainage problems and has experienced excessive flow depth and velocity. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 3

Structures at risk 3

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 12

Roadway(s) impacted (miles)

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, 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)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

\$150,000

Title Delaware Creek Flood Study ID# 101000160

Sponsor (name of entity) Brownwood (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

x Floodplain modeling, mapping and risk assessment

6,718

RFPG recommend X Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City Brownwood County Brown

Watershed Delaware Creek - Pecan Bayou name(s)

name(s)

Tributary(ies) Delaware Creek

HUC# 12090107

2090107 Stream miles (est.) TBD

Drainage area: square miles, est 10.50 or acreage, est.

Social vulnerability index 0.28

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

Other Watershed Study



Flood Risk Description

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 85

Structures at risk 54

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 760

Roadway(s) impacted (miles)

2.21

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, 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$150,000

ID# 101000161 VFW Flood Study Title Sponsor (name of entity) Burnet (Municipality) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Burnet County Burnet

Watershed Headwaters Hamilton Creek

Technical committee recommend X Yes

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090205

Social vulnerability index 0.19

Stream miles (est.) TBD

Drainage area: square miles, est 0.00

or acreage, est.

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

Other Watershed Study



Flood Risk Description

The area has local drainage problems and is at risk of flooding. The building is located adjacent to the 100-year floodplain and has experienced flooding. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 0

Structures at risk 1

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

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, 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)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

\$100,000

Title Citywide Floodplain Map Update ID# 101000162

Sponsor (name of entity) East Bernard (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend x Yes

x Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes No

Feasibility study

Preliminary project engineering

Other

Problem Area

City East Bernard County Wharton

Watershed Boone Branch - San Bernard River name(s)

Tributary(ies) Britt Branch, San Bernard River

HUC# 12090401 Stream miles (est.) TBD

Drainage area: square miles, est 3.78 or acreage, est. 2,419

Social vulnerability index 0.81

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

Other Watershed Study



Flood Risk Description

The existing floodplain maps are outdated and do not reflect current flood risk.

Population at risk 203

Structures at risk 158

Critical facilities at risk 0

4.14

Farm/Ranch land impacted (acres) 253

Roadway(s) impacted (miles)

Scope of Study

The Citywide flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and will develop new floodplain maps that reflect current flood risk.

Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

Estimated Study Cost

Cost \$250,000

Title Jones Brothers Park Flooding ID# 101000163

Sponsor (name of entity) Jonestown (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Floodplain modeling, m

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 Jonestown

County Travis

Watershed Big Sandy Creek
name(s)

Tributary(ies) Big Sandy Creek

HUC# 12090205,12070205 Stream miles (est.) TBD

Drainage area: square miles, est 53.07 or acreage, est. 33,962

Social vulnerability index 0.15
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Drainage System Improvements



Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk during large storm events. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles. Sponsor has indicated targeted buyouts are also a potential outcome.

Population at risk 290

Structures at risk 297

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 1,595

Roadway(s) impacted (miles)

3.91

Scope of Study

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)

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

Estimated Study Cost

Cost \$100,000

ID# 101000164 East Reed Park Road Flooding Title Sponsor (name of entity) Jonestown (Municipality) Commitment x Yes Lower Colorado-Lavaca **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 Jonestown County Travis Watershed Hurst Creek - Lake Travis name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090205

Stream miles (est.) TBD

Drainage area: square miles, est 2.82

or acreage, est.

1,805

Social vulnerability index 0.15

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing crossing is undersized and overtops. There are multiple houses upstream of the crossing that appear to be impacted by backwater flooding. The existing crossing consists of multiple corrugated metal pipes. The proposed improvements include upsizing the crossing with a bridge. The existing road is a 2-lane road with an average daily traffic count of 504. 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 1

Structures at risk 2

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 45

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate upsizing the existing low water 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

\$100,000

Title Whitman Branch Regional Detention Pond ID# 101000165

Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Marble Falls County Burnet

Watershed Backbone Creek

name(s)

Tributary(ies) Whitman Branch

HUC# 12090205

Stream miles (est.) TBD

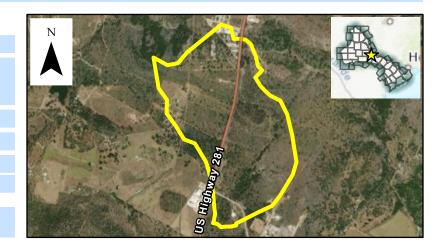
Drainage area: square miles, est 0.67

or acreage, est. 431

Social vulnerability index 0.19

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

Other Regional Detention



Flood Risk Description

The area of concern along Whitman Branch has insufficient channel capacity and undersized bridge/culvert crossings. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 60

Structures at risk 20

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 23

Roadway(s) impacted (miles)

0.18

Scope of Study

The study will build upon and update previously conducted flood risk reduction studies. Study will include hydrologic and hydraulic modeling, 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)

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

Estimated Study Cost

Cost \$150,000

Title Ave J Bridge Replacement ID# 101000166

Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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 Marble Falls

Watershed name(s)

Backbone Creek

name(s)

Tributary(ies) Unnamed Tributary

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

Drainage area: square miles, est 40.20 or acreage, est. 25,726

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



Flood Risk Description

Social vulnerability index 0.19

Other Roadway/Crossing Improvements

The existing bridge overtops. The proposed improvements include improvements/replacement of the existing bridge. The existing bridge is a 2-lane road with an average daily traffic count of 2,447. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.50

Scope of Study

Conduct a study to evaluate upsizing the existing low water 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

itle Broadway Street at Whitman Branch Low Water Crossing ID# 101000167

REGIONAL FLOOD PLANNING GROUP

Lower Colorado-Lavaca

REGION 10

Preliminary project engineering

Sponsor (name of entity) Marble Falls (Municipality)

....

Commitment x Yes

RFPG recommend X Yes

Floodplain modeling, mapping and risk assessment

'es No

Other

City Marble Falls

Study Type

Problem Area

County Burnet

Watershed Hamilton Creek - Lake Travis

Technical committee recommend X Yes

Emergency preparedness

name(s)

Tributary(ies) Whitman Branch

HUC# 12090205

Stream miles (est.) TBD

Drainage area: square miles, est 5.65

or acreage, est.

st. 3,617

Social vulnerability index 0.19

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

Other Roadway/Crossing Improvements & Channel Improvements



x Feasibility study

Flood Risk Description

The existing culvert crossing is undersized and overtops. The proposed improvements include enlarging the existing culverts. The existing road is a 2-lane road with an average daily traffic count of 2,220. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.20

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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

Title 1431/281 Detention ID# 101000168

Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

Floodplain modeling, mapping and risk assessment

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Marble Falls

Watershed name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090205 Stream miles (est.) TBD

Drainage area: square miles, est 1.20 or acreage, est. 768

Social vulnerability index 0.19
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)



Flood Risk Description

Other Regional Detention

The area of concern between Whitman Branch and Hamilton Creek has insufficient channel capacity and undersized bridge/culvert crossings. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

RFPG recommend X Yes No

Population at risk 18

Structures at risk 5

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 18

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate the area. 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)

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

Estimated Study Cost

Cost \$150,000

ID# 101000169 **Backbone Branch Detention Pond** Title Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

REGION 10

Study Type

Technical committee recommend X Yes

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

RFPG recommend X Yes

Problem Area

City Marble Falls County Burnet Watershed Backbone Creek name(s) Tributary(ies) Unnamed Tributary 12090201,12090205 Stream miles (est.) TBD Drainage area: square miles, est 30.04 or acreage, est. 19,228 Social vulnerability index 0.19 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) Other Regional Detention



Flood Risk Description

The area of concern along Backbone Creek has insufficient channel capacity and undersized bridge/culvert crossings. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 150

Structures at risk 172

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 1,646

Roadway(s) impacted (miles)

4.11

Scope of Study

Conduct a study to evaluate the area. 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)

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

Estimated Study Cost

\$150,000

Title Marble Falls Creek Walk ID# 101000170

Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Marble Falls County Burnet

Watershed Hamilton Creek - Lake Travis

Technical committee recommend X Yes

name(s)

Tributary(ies) Whitman Branch

HUC# 12090205

Stream miles (est.) TBD

Drainage area: square miles, est 5.80

or acreage, est. 3,713

Social vulnerability index 0.19

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing pedestrian access ways/trails overtop. The proposed improvements include upgrading the low water crossing, and channel modifications. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 820

Structures at risk 80

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 166

Roadway(s) impacted (miles)

2.04

Scope of Study

Conduct a study to evaluate the area. 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

Title Citywide Floodplain Remapping ID# 101000171

Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

x Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City Marble Falls County Burnet

Watershed Lake Marble Falls, Flatrock Creek - Lake Travis name(s)

Tributary(ies) Little Flatrock Creek, Flatrock Creek

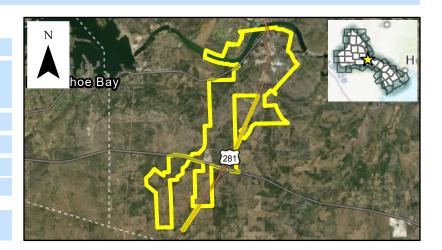
HUC# 12090205 Stream miles (est.) TBD

Drainage area: square miles, est 7.13 or acreage, est. 4,565

Social vulnerability index 0.19

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

Other Watershed Study



Flood Risk Description

The existing floodplain maps are outdated and do not reflect current flood risk.

Population at risk 322

Structures at risk 158

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 329

Roadway(s) impacted (miles)

Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and will develop new floodplain maps that reflect current flood risk.

Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

Estimated Study Cost

Cost \$250,000

Title 2nd Street at Backbone Creek Low Water Crossing ID# 101000172

Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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 Marble Falls

Watershed name(s)

Backbone Creek

Tributary(ies) Whitman Branch

HUC# 12090205 Stream miles (est.) TBD

Drainage area: square miles, est 2.28 or acreage, est. 1,458

Social vulnerability index 0.19

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing crossing is undersized and overtops. The crossing floods during smaller rainfall events and is an emergency vehicle response route. The existing crossing consists of four (4) reinforced concrete pipes. The proposed improvements include upsizing the crossing. The existing road is a 2-lane road with an average daily traffic count of 3,263. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.25

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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

Title Ave L at Whitman Creek Low Water Crossing ID# 101000173

Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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 Marble Falls County Burnet

Watershed Backbone Creek name(s)

Tributary(ies) Whitman Branch

HUC# 12090205 Stream mi

Stream miles (est.) TBD

Drainage area: square miles, est 2.33 or acreage, est. 1,490

Social vulnerability index 0.19

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing bridge overtops. The proposed improvements include improvements/replacement of the existing bridge. The existing bridge is a 2-lane road with an average daily traffic count of 668. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.20

Scope of Study

Conduct a study to evaluate upsizing the existing low water 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

ID# 101000174 Broadway at Backbone Creek Low Water Crossing Sponsor (name of entity) Marble Falls (Municipality) Commitment x Yes Lower Colorado-Lavaca **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

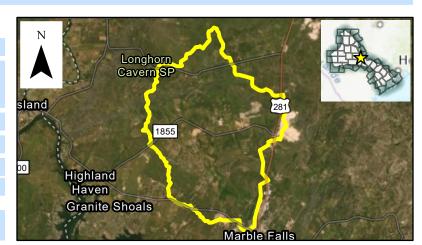
x Feasibility study

Preliminary project engineering

Other

Problem Area

City Marble Falls County Burnet Watershed Backbone Creek name(s) Tributary(ies) Unnamed Tributary 12090201,12090205 Stream miles (est.) TBD Drainage area: square miles, est 31.97 or acreage, est. 20,460 Social vulnerability index 0.19 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing culvert crossing is undersized and overtops. The proposed improvements include enlarging the existing culverts. The existing road is a 2-lane road with an average daily traffic count of 2,220. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

\$100,000

ID# 101000175 102 Beach Dr Low Water Crossing Title Sponsor (name of entity) Sunrise Beach Village (Municipality) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

320

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Sunrise Beach Village County Llano

Technical committee recommend X Yes

Watershed Sandy Creek - Lake Lyndon B Johnson

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090201

Stream miles (est.) TBD

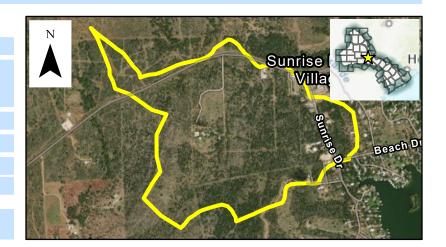
Drainage area: square miles, est 0.50

or acreage, est.

Social vulnerability index 0.19

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing consists of two (2) corrugated metal pipes. The proposed improvements include upsizing the pipes. The average daily traffic count is unknown. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate upsizing the existing low water 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

\$100,000

ID# 101000176 124 Sunrise Drive Low Water Crossing Sponsor (name of entity) Sunrise Beach Village (Municipality) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Sunrise Beach Village

County Llano

Watershed Sandy Creek - Lake Lyndon B Johnson

Technical committee recommend X Yes No

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090201 Stream miles (est.) TBD

Drainage area: square miles, est 0.44

or acreage, est. 279

Social vulnerability index 0.19

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing consists of two (2) corrugated metal pipes. The proposed improvements include upsizing the pipes. The average daily traffic count is unknown. 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 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate upsizing the existing low water 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

\$100,000

Title Countywide Floodplain Map Update ID# 101000177

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness x Floodpl

Technical committee recommend x Yes

x Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A County Gillespie

Watershed Multiple Watersheds name(s)

Tributary(ies) Multiple Tributaries

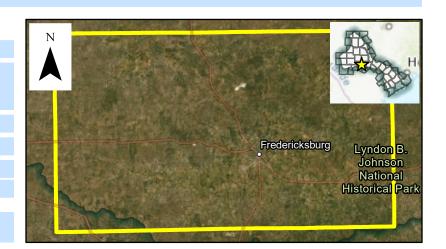
HUC# 12090201,12090204 Stream miles (est.) TBD

Drainage area: square miles, est 1,057.22 or acreage, est. 676,621

Social vulnerability index 0.1

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

Other Watershed Study



Flood Risk Description

The existing floodplain maps are outdated and do not reflect current flood risk.

Population at risk 1,313

Structures at risk 863

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 71,867

Roadway(s) impacted (miles)

102.20

Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and will develop new floodplain maps that reflect current flood risk.

Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

Estimated Study Cost

Cost \$250,000

Title Low Water Crossing's at 4 locations ID# 101000178

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

Lower Colorado-Lavaca
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 County Gillespie

Watershed Multiple Watersheds
name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090201,12090204 Stream miles (est.) TBD

Drainage area: square miles, est 1,057.22 or acreage, est. 676,621

Social vulnerability index 0.1

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

Other Roadway/Crossing Improvements & Channel Improvements



Flood Risk Description

The existing 4 crossings are undersized and overtop. The proposed improvements include replacing the low water crossing with bridges. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.61

Scope of Study

Conduct a study to evaluate the area. 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 (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$200,000

Title Various Streets - Install Flood Early Warning System ID# 101000179

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

Lower Colorado-Lavaca
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 County Kendall

Watershed Bear Creek - Pedernales River, South Grape Creek, Williams name(s) Creek - Pedernales River

Tributary(ies) Unnamed Tributary

HUC# 12090206,12100201 Stream miles (est.) TBD

Drainage area: square miles, est 660.51 or acreage, est. 422,724

Social vulnerability index 0.04

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

Other Install Flood Early Waning System



Flood Risk Description

The county has identified multiple roadway/crossings that overtop and where structural improvements are not feasible. Proposed study will identify priority crossings to receive flood warning systems or other safety improvements.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

0.21

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

away(3) iiiipacteu (iiii

Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

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 \$15,000

Title Countywide Floodplain Map Update ID# 101000180

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

x Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A
Watershed Multiple Watersheds

County Menard

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090109,12090110

Stream miles (est.) TBD

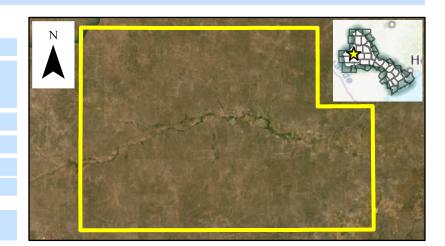
Drainage area: square miles, est 898.47

or acreage, est. 575,019

Social vulnerability index 0.36

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

Other Watershed Study



Flood Risk Description

The existing floodplain maps are outdated and do not reflect the current flood risk.

Population at risk 1,284

Structures at risk 896

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 93,035

Roadway(s) impacted (miles)

pacted (miles) 62.48

Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and will develop new floodplain maps that reflect current flood risk.

Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

Estimated Study Cost

Cost \$250,000

Title Harris Hollow Neighborhood Flooding ID# 101000181

Sponsor (name of entity) Menard (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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 Menard County Menard

Watershed Menard Irrigation Company Canal - San Saba River name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090109

Stream miles (est.) TBD

Drainage area: square miles, est 0.13

or acreage, est. 83

Social vulnerability index 0.36

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

Other Drainage System Improvements



Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area and numerous houses are located in the 100-year floodplain. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 83

Structures at risk 107

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 25

Roadway(s) impacted (miles)

2.51

Scope of Study

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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 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 \$100,000

Title South Polk Street Study ID# 101000183

Sponsor (name of entity) Giddings (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
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 Giddings

County Lee

Watershed Upper Rabbs Creek
name(s)

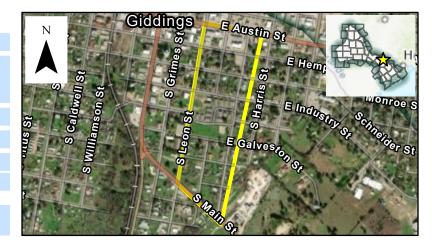
Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 0.08 or acreage, est. 49

Social vulnerability index 0.42
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Watershed Study



Flood Risk Description

The Sponsor has indicated the existing stormwater infrastructure in the study area is undersized and the area is at risk of street flooding, property flooding, and potential structural flooding. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 25

Structures at risk 17

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.32

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, 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$150,000

ID# 101000184 City-wide Flood Warning Systems Title Sponsor (name of entity) Wharton (Municipality) Commitment x Yes Lower Colorado-Lavaca **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 Wharton County Wharton Watershed Multiple Watersheds name(s) Tributary(ies) Unnamed Tributary

12090402,12090302 Stream miles (est.) TBD

Drainage area: square miles, est 7.50 or acreage, est. 4,799

Social vulnerability index 0.81

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

Other Install Flood Early Warning System



Flood Risk Description

The county has identified multiple roadway/crossings that overtop and where structural improvements are not feasible. Proposed study will identify priority crossings to receive flood warning systems or other safety improvements.

Population at risk 3,900

Structures at risk 1,300

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 1,118

Roadway(s) impacted (miles)

28.20

Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

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

\$250,000

Title City-wide Drainage Master Plan ID# 101000185

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Floodplain modeling,

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 Wharton County Wharton

Watershed name(s)

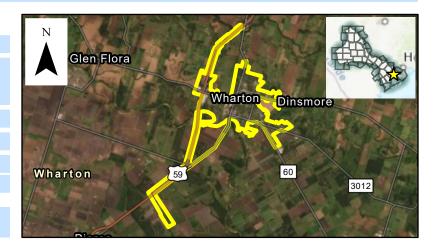
Tributary(ies) Unnamed Tributary

HUC# 12090402,12090302 Stream miles (est.) TBD

Drainage area: square miles, est 7.50 or acreage, est. 4,799

Social vulnerability index 0.81

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



Flood Risk Description

Other Watershed Study

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 3,900

Structures at risk 1,300

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 1,118

Roadway(s) impacted (miles)

28.20

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, 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$250,000

Title City-wide Drainage Master Plan (integrate with Dry Creek Study) ID# 101000188

Sponsor (name of entity) Edna (Municipality) Commitment x Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness F

Technical committee recommend X Yes No

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Edna County Jackson

Watershed name(s)

Post Oak Branch - Dry Creek

Tributary(ies) Dry Creek

HUC# 12100101,12100102 Stream miles (est.) TBD

Drainage area: square miles, est 4.06 or acreage, est. 2,601

Social vulnerability index 0.51
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Watershed Study



Flood Risk Description

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 2,700

Structures at risk 900

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 137

Roadway(s) impacted (miles)

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, 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$250,000

Title Wastewater Treatment Plant Floodproofing ID# 101000189

Sponsor (name of entity) Edna (Municipality) Commitment x Yes No

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

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes No

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Edna County Jackson

Watershed name(s)

Tributary(ies) Post Oak Branch

HUC# 12100101 Stream miles (est.) TBD

Drainage area: square miles, est 0.05 or acreage, est. 31

Social vulnerability index 0.51
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Watershed Study



Flood Risk Description

The plant is located within, and may be impacted by, the 100-year floodplain of Post Oak Branch. The area has existing local drainage problems and has experienced excessive flow depth and velocity. The existing risk indicators are based on available data and will be better defined as part of the study. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

Population at risk 3

Structures at risk 1

Critical facilities at risk 1

Farm/Ranch land impacted (acres) 7

Roadway(s) impacted (miles)

0.16

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, 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)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

Cost \$250,000

ID# 101000190 **Devers Creek Regional Detention and Channel Improvements** Sponsor (name of entity) Ganado (Municipality) Commitment x Yes Lower Colorado-Lavaca **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 Ganado County Jackson

Watershed Devers Creek-Mustang Creek

Technical committee recommend X Yes

name(s)

Tributary(ies) Devers Creek

12100102 HUC#

Stream miles (est.) TBD

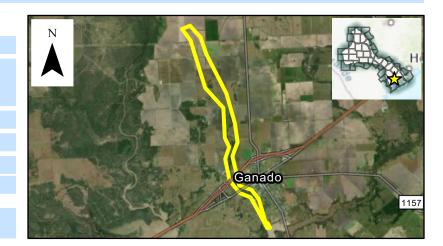
Drainage area: square miles, est 1.23

or acreage, est. 790

Social vulnerability index 0.51

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

Other Regional Detention



Flood Risk Description

The area of concern along Devers Creek has insufficient channel capacity and undersized bridge/culvert crossings. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

RFPG recommend X Yes No

Population at risk 600

Structures at risk 200

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 399

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate the area. 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)

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

Estimated Study Cost

\$250,000

ID# 101000192 Title City-wide Drainage Master Plan Sponsor (name of entity) Ganado (Municipality) Commitment x Yes 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

Problem Area

City Ganado County Jackson Watershed Devers Creek-Mustang Creek name(s) Tributary(ies) Devers Creek 12100102 HUC# Stream miles (est.) TBD or acreage, est. 717 Drainage area: square miles, est 1.12 Social vulnerability index 0.51

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



Flood Risk Description

Other Watershed Study

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

RFPG recommend X Yes No

Population at risk 600

Structures at risk 200

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 28

Roadway(s) impacted (miles)

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, 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

\$250,000

ID# 101000193 Title City-wide Drainage Master Plan Sponsor (name of entity) La Ward (Municipality) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

Floodplain modeling, mapping and risk assessment

x Feasibility study

Preliminary project engineering

Other

Problem Area

name(s)

City La Ward County Jackson Watershed Multiple Watersheds

Tributary(ies) Unnamed Tributary

12100401 HUC#

Stream miles (est.) TBD

Drainage area: square miles, est 0.85 or acreage, est. 547

Social vulnerability index 0.51

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

Other Watershed Study



Flood Risk Description

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood risk is not well defined, and the risk indicators are based on the study area. Study results will provide a more detailed assessment of existing flood and potential flood risk reduction that will be used to evaluate projects for future planning cycles.

RFPG recommend X Yes No

Population at risk 90

Structures at risk 30

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 134

Roadway(s) impacted (miles)

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, 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)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Estimated Study Cost

\$250,000

Identify and Assess Flood Risk and Potential Mitigation Solutions ID# 101000194 Sponsor (name of entity) Lower Colorado River Authority Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

REGION 10

Study Type

Technical committee recommend x Yes

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

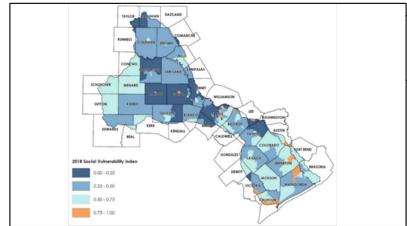
Other

Other TBD

Problem Area

County -City Multiple Watershed Multiple Watersheds name(s) Tributary(ies) TBD HUC# Stream miles (est.) TBD Drainage area: square miles, est 24,288.76 or acreage, est. 15,544,805 Social vulnerability index 0.75

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



Flood Risk Description

The Lower Colorado-Lavaca Regional Flood Planning Area has a large number of structures mapped to be at risk. Some of these areas are in socially vulnerable communities, which are disproportionately affected by flood impacts. Those with limited means are much more challenged to recover from flood losses and often cannot afford flood insurance to mitigate these losses. For a number of reasons, the residents of these communities may be less likely to notify their local authorities of the flooding problems and losses they have suffered. This means that many of these flood problem areas are under-reported and/or entirely unknown to their respective municipal and county governments. This combination of deeper vulnerability and lack of attention calls for an effort to proactively seek out these communities to more fully assess and document their flood risk, consider potential solutions, and lay out a path to implement feasible and appropriate solutions. Other RFPG goals (no room yet in Related Goals box below): 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation structural flood mitigation projects.

Population at risk 179,973 Critical facilities at risk 0 Structures at risk 67,825

Farm/Ranch land impacted (acres) 2,268,296 Roadway(s) impacted (miles) 3,091.00

Scope of Study

This FME will conduct a technical study to identify high-priority flood problem areas in high social vulnerability index (SVI) locations throughout the Lower Colorado-Lavaca Regional Flood Planning Area (Region 10). Potential study areas will be identified using available data, assessing flood risk, exposure, and vulnerability. Available data includes the "floodplain quilt" developed for this Regional Flood Plan along with other available geospatial data (e.g., building footprints and Social Vulnerability Index). The study would rank the resulting flood problem areas by severity and develop feasibility-level solutions for the highest priority areas, generally those with a combination of the greatest flood risk/exposure and solution feasibility. This information would be shared with the corresponding municipal and county governments to consider sponsor solution implementation. TWDB funds are scored on a needs-based scale, which would help these projects secure grant or low-interest loan funding, thus making the projects more feasible and this helping these vulnerable populations

Related Goal(s)

Regional and State Fllod Plan Guidance Principles ask that regional and state flood plans "focus on: identifying both current and future flood risks, including hazard, exposure, vulnerability and residual risks" and that they "consider protection of vulnerable populations." 5.1Rduce the number of structures and critical

Estimated Study Cost

\$150,000