Title Drainage System Improvements ID# 101000001

Sponsor (name of entity) Smithville (Municipality) 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

RFPG recommend X Yes

Problem Area

City Smithville

Watershed Nillow Creek - Colorado River

Tributary(ies)

Unnamed Tributary

HUC# 12090301

Stream miles (est.) TBD

Drainage area: square miles, est 0.67 or acreage, est. 429

Social vulnerability index 0.61

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

Other Drainage system improvements - NE 7th, NE 8th, NE 5th, NE 2nd, SE 2nd, SE 4th



Flood Risk Description

The sponsor has indicated the existing stormwater infrastructure in the study area is undersized (less than 25-year capacity) 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 3,300 Structures at risk 1,200 Critical facilities at risk 0

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)

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 \$250,000

Title Shiloh Road Bridge West of State HWY 304 ID# 101000002

Sponsor (name of entity) Bastrop (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 Bastrop

Watershed Lower Colorado - Cummins name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) 1.20

Drainage area: square miles, est 1.74 or acreage, est. 1,114

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a multi-box (2) culvert. The proposed improvements include an upgrade to the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 917.

Population at risk 2

Structures at risk 1

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.15

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 Willie May Way in Precinct 4 at Trib ID# 101000003

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Floo

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 Bastrop

Watershed name(s)

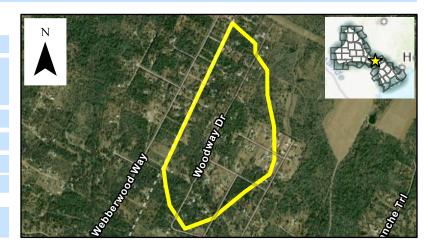
Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) 0.50

Drainage area: square miles, est 0.27 or acreage, est. 173

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 is a corrugated metal pipe crossing. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 341.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

0.10

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

Cost \$100,000

Title Gotier Trace Low Water Crossings ID# 101000004

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

778

RFPG recommend X Yes

Feasibility study

x Preliminary project engineering

Other

Problem Area

City N/A County Bastrop

Watershed Alum Creek, Gravelly Creek

Technical committee recommend X Yes

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301

Stream miles (est.) TBD

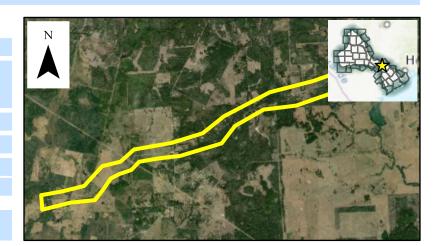
Drainage area: square miles, est 1.21

or acreage, est.

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements



Flood Risk Description

There are multiple low water crossings that are undersized. The proposed improvements include installing multiple box culverts at each crossing. The existing road is a 2-lane road with an average daily traffic count of 115. 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

Cost \$100,000

Title Lakeview Drive & Tuck Street ID# 101000005

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

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

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Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A County Bastrop

Watershed Greens Creek - Cedar Creek name(s)

Technical committee recommend X Yes

Tributary(ies) Greens Creek

HUC# 12090301

Stream miles (est.) TBD

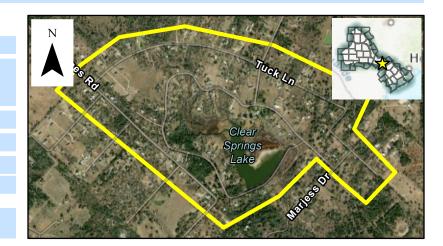
Drainage area: square miles, est 0.56

or acreage, est. 360

Social vulnerability index 0.61

(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 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 3

Structures at risk 47

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 62

Roadway(s) impacted (miles)

0.38

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. 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 Green Valley Drive in Precinct 1 ID# 101000006

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

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REGIONAL FLOOD
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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 N/A

County Bastrop

Watershed name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) 1.00

Drainage area: square miles, est 1.35 or acreage, est. 863

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 road is a low water crossing with no method of conveyance other than over topping at this location. The proposed improvements include a box culvert-bridge. The existing road is a 2-lane road with an average daily traffic count of 841.

RFPG recommend X Yes

Population at risk 0

Structures at risk 38

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.33

Scope of Study

Conduct a study to evaluate the proposed 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 Old McDade Rd in Precinct 4 near Norwood Rd ID# 101000007

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

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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 Bastrop

Watershed Lower Colorado - Cummins name(s)

iiaiiie(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301

Stream miles (est.) 1.00

Drainage area: square miles, est 0.41

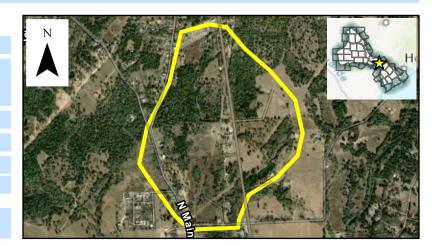
or acreage, est.

t. 259

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a box culvert replacement. The existing road is a 2-lane road with an average daily traffic count of 942.

Population at risk 0

Structures at risk 4

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.12

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

ID# 101000008 Title Clear Springs Lake Dam Sponsor (name of entity) Bastrop (County) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP**

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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

Problem Area

City N/A County Bastrop Watershed Greens Creek - Cedar Creek name(s) Tributary(ies) Clear Springs Lake HUC# 12090301 Stream miles (est.) 1.00 Drainage area: square miles, est 0.00 or acreage, est. 0 Social vulnerability index 0.61 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) Other Dam Improvements



Flood Risk Description

Clear Springs Lake is impounded by an earthen embankment dam with an earthen spillway. The spillway is eroding threatening downstream houses and potential breach. The dam does not appear to be regulated by the TCEQ due to size and volume and the existing flood risk is not well defined. 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 12

Structures at risk 2

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.17

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 Pecan Shores Subdivision ID# 101000009

Sponsor (name of entity) Bastrop (County) 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 N/A

County Bastrop

Watershed Willow Creek - Colorado River
name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 0.05 or acreage, est. 29

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

Other Voluntary buyout of homes in 100-year FP (48 homes)



Flood Risk Description

There are up to 48 flood prone properties on/near Pecan Shores Drive that are within the 100-year floodplain and subject to repetitive loss.

Population at risk 144

Structures at risk 48

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 18

Roadway(s) impacted (miles)

0.43

Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

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 \$150,000

ID# 101000010 Title **Hidden Shores Subdivision** Sponsor (name of entity) Bastrop (County) 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 N/A County Bastrop

Watershed Willow Creek - Colorado River, Little Piney Creek - Colorado name(s) River

Tributary(ies) Unnamed Tributary

HUC# 12090301

Stream miles (est.) TBD

Drainage area: square miles, est 0.14

or acreage, est. 89

Social vulnerability index 0.61

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

Other Voluntary buyout of homes in floodway (22 homes)



Flood Risk Description

There are up to 22 flood prone properties on/near Hidden Shores Loop that are within the 100-year floodplain and subject to repetitive loss.

Population at risk 39

Structures at risk 22

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 68

Roadway(s) impacted (miles)

Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

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

\$150,000

ID# 101000011 Waters Edge Terrace Subdivision Sponsor (name of entity) Bastrop (County) Commitment x Yes Lower Colorado-Lavaca **REGIONAL FLOOD** PLANNING GROUP

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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 N/A County Bastrop Watershed Coleman Branch - Colorado River name(s) Tributary(ies) Unnamed Tributary Stream miles (est.) TBD HUC# 12090301 Drainage area: square miles, est 0.05 or acreage, est. 34 Social vulnerability index 0.61 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) Other Voluntary buyout of homes in 100-year FP (12 homes)



Flood Risk Description

There are up to 12 flood prone properties on/near Waters Edge Terrace Drive that are within the 100-year floodplain and subject to repetitive loss.

RFPG recommend X Yes

Population at risk 36

Structures at risk 12

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 18

Roadway(s) impacted (miles)

Scope of Study

The study will include hydrologic and hydraulic modeling (with Atlas 14) to identify/verify eligible property owners.

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

\$100,000

Title Old Sayers Rd & Little Sandy Creek ID# 101000012

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

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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

HUC# 12090301

City N/A County Bastrop

Watershed name(s)

Tributary(ies) Big Sandy Creek

Drainage area: square miles, est 0.63 or acreage, est. 400

Stream miles (est.) 1.50

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a multiple box culvert. The proposed improvements include upgrades to the existing crossing. The existing road is a 2-lane road with an average daily traffic count of 115.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 105

Roadway(s) impacted (miles)

0.19

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 Paffen Rd & Grassy Creek Draw ID# 101000013

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

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REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes

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

RFPG recommend X Yes

Preliminary project engineering

Problem Area

City N/A

County Bastrop

Watershed name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) 1.25

Drainage area: square miles, est 1.01 or acreage, est. 647

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 24.

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 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 Meduna Rd & Barton Oaks Draw 1 ID# 101000014

Sponsor (name of entity) Bastrop (County) 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 N/A County Bastrop

Watershed Lower Colorado - Cummins

Technical committee recommend X Yes

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301

Stream miles (est.) 0.38

Drainage area: square miles, est 0.44

or acreage, est. 283

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. There does not appear to be an existing culvert or bridge. The proposed improvements include upgrades to the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 65.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.06

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 Pine Canyon Dr & Wet Weather Creek ID# 101000015

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

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REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes No

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

RFPG recommend X Yes No

Problem Area

City	N/A		Coun	ty Bastrop				
Watershed Lower Colorado - Cummins name(s)								
Tributary(ies) Unnamed Tributary								
HUC# 12090301		Stream miles (est.) 0.66						
Drainage area: square miles, est 0.20 or acreage, est. 126								
Social vulnerability index 0.61 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)								
Other Roadway/Crossing Improvements & Storm Drainage System								



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 230.

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

Scope of Study

Farm/Ranch land impacted (acres) 0

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).

Roadway(s) impacted (miles)

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 Hall Rd & Young's Branch ID# 101000016

Sponsor (name of entity) Bastrop (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 Bastrop

Watershed name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090301 Stream miles (est.) 0.65

Drainage area: square miles, est 0.59 or acreage, est. 380

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a multiple box culvert. The proposed improvements include an upgrade of the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 11.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 2

Roadway(s) impacted (miles)

0.05

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 Friendship Rd & Turner Creek A and B ID# 101000017

Sponsor (name of entity) Bastrop (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

name(s)

City N/A County Bastrop
Watershed Lower Colorado - Cummins

Tributary(ies) Unnamed Tributary

HUC# 12070102,12090301 Stream miles (est.) 2.70

Drainage area: square miles, est 2.47 or acreage, est. 1,580

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a single box culvert. The proposed improvements include a multi-box (3) culvert. The existing road is a 2-lane road with an average daily traffic count of 38.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 209

Roadway(s) impacted (miles)

0.14

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 Patterson Rd & Barton's Creek ID# 101000018

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 x Feasibility study Preliminary project engineering

Other

RFPG recommend X Yes

Problem Area

City N/A County Bastrop

Watershed Lower Colorado - Cummins
name(s)

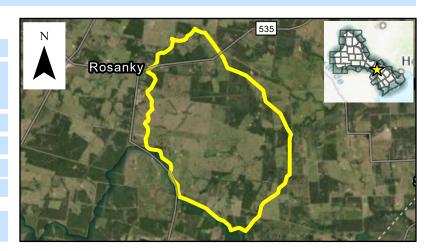
Tributary(ies) Barton's Creek

HUC# 12100202,12090301 Stream miles (est.) 1.00

Drainage area: square miles, est 6.82 or acreage, est. 4,363

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a wooden bridge. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 39.

Population at risk 0

Structures at risk 1

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 480

Roadway(s) impacted (miles)

0.11

Scope of Study

Conduct a study to evaluate upsizing the existing bridge. 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# 101000019 Upper Elgin River Rd & Cotton Creek Title Sponsor (name of entity) Bastrop (County) 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

Problem Area

City N/A County Bastrop Watershed Lower Colorado - Cummins name(s) Tributary(ies) Unnamed Tributary HUC# 12090301 Stream miles (est.) 0.50 Drainage area: square miles, est 1.12 or acreage, est. 714 Social vulnerability index 0.61 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 398.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 32

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 Old Sayers Rd & Big Sandy Creek ID# 101000020

Sponsor (name of entity) Bastrop (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 Bastrop

Watershed name(s)

Tributary(ies) Little Sandy Creek

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 19.50 or acreage, est. 12,482

Social vulnerability index 0.61

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a multi-box (2) culvert-bridge. The existing road is a 2-lane road with an average daily traffic count of 251.

Population at risk 0

Structures at risk 90

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

2.32

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# 101000021 Caldwell Rd & Wet Weather Creek Sponsor (name of entity) Bastrop (County) 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 **Emergency preparedness**

x Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A County Bastrop Watershed Lower Colorado - Cummins name(s) Tributary(ies) Cedar Creek HUC# 12090301 Stream miles (est.) 0.50 Drainage area: square miles, est 0.33 or acreage, est. 210 Social vulnerability index 0.61 (SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.) Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe. The proposed improvements include a multi-box (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 411.

RFPG recommend X Yes

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 7

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 Farm Street, Pine Street, Chestnut Road, MLK Drive ID# 101000022

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Floodp

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 Bastrop

Watershed Lower Colorado - Cummins
name(s)

Tributary(ies) Gill's Branch and Unnamed Tributaries

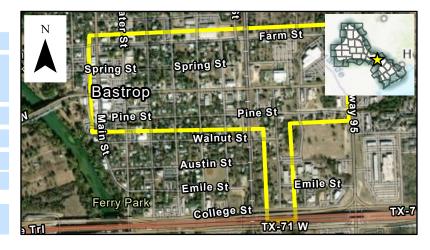
HUC# 12090301 Stream miles (est.) 2.30

Drainage area: square miles, est 0.24 or acreage, est. 156

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 existing crossings are undersized and overtop. The existing crossing is multiple box culverts and other bridge openings. The proposed improvements include upgrades to the subject crossings along with channel modifications. The existing main stem road is a 2-lane road with an average daily traffic count of 8.488.

Population at risk 0

Structures at risk 179

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

2.76

Scope of Study

Conduct a study to evaluate upsizing the existing low water crossings and channel modifications. 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 \$250,000

ID# 101000023 Title Gills Branch Sponsor (name of entity) Bastrop (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 Bastrop County Bastrop Watershed Copperas Creek - Colorado River name(s)

Tributary(ies) Gills Branch

HUC# 12090301

Stream miles (est.) 0.50

Drainage area: square miles, est 0.03

21

or acreage, est.

Social vulnerability index 0.61

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

Other Drainage System Improvements



Flood Risk Description

Gills Branch Creek watershed has undersized stormwater infrastructure including the creek, bridges/culverts, and the associated drainage system. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion. The existing flood 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 234

Structures at risk 14

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 2

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)

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

\$100,000

Title Smithville Recreation Center Expansion ID# 101000026

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness Floodplain modeling, n

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 Smithville County Bastrop

Watershed name(s)

County Bastrop

River

Tributary(ies) Unnamed Tributary

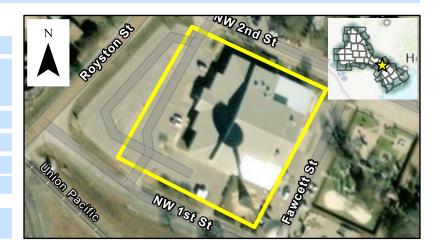
HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 0.00 or acreage, est. 2

Social vulnerability index 0.61

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

Other Structure/Infrastructure



Flood Risk Description

Sponsor has indicated the desire to expand and improve the shelter-in-place capability of the Center.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.00

Scope of Study

Evaluate the existing building and determine feasibility and costs associated with providing expanded capacity.

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 \$100,000

ID# 101000027 FM 812 at Little Alum Creek Sponsor (name of entity) Bastrop (County) 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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City N/A County Bastrop Watershed Alum Creek - Walnut Creek name(s)

Tributary(ies) Little Alum Creek

Technical committee recommend X Yes

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 1.88 or acreage, est. 1,201

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 existing crossing is undersized and overtops. The existing crossing is a bridge. The proposed improvements include construction of a 200 foot bridge and 2,200 feet of channel modifications. The existing main stem road is a 2-lane road with an average daily traffic count of 9,088. 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 75

Structures at risk 25

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 60

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate upsizing the existing low water crossings and channel modifications. 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 benefitcost-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

\$100,000

ID# 101000028 FM 812 at Alum Creek South Title Sponsor (name of entity) Bastrop (County) 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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City N/A County Bastrop

Watershed Alum Creek - Walnut Creek

name(s)

Tributary(ies) Alum Creek

HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 1.21

or acreage, est.

772

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 existing crossings are undersized and overtop. The existing crossing is a bridge. The proposed improvements include construction of a 100 foot bridge and 1,700 feet of channel modifications. The existing main stem road is a 2-lane road with an average daily traffic count of 9,088. 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 2

Structures at risk 1

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 28

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate upsizing the existing low water crossings and channel modifications. 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 benefitcost-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 Magnolia St ID# 101000029

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

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Brownwood County Brown

Watershed name(s)

Tributary(ies) Willis Creek

HUC# 12090107 Stream miles (est.) TBD

Drainage area: square miles, est 0.07 or acreage, est. 48

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 roadside ditch and culvert are undersized resulting in localized flooding and roadway overtopping. Proposed improvements include improvements to the ditch and culvert. The existing main stem road is a 2-lane road with an average daily traffic count of 5,804. 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 273

Structures at risk 91

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 7

Roadway(s) impacted (miles)

0.66

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)

6.2 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 County Road 328 at Cow Creek ID# 101000031

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Technical committee recommend X Yes

Emergency preparedness Floodplain modeling, mapping and risk assessment

x Feasibility study

Preliminary project engineering

Other

Problem Area

City N/A

Watershed name(s)

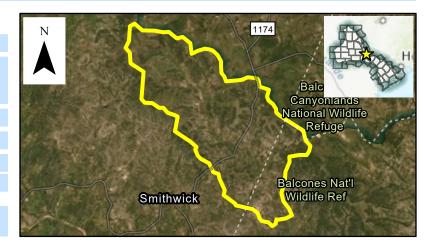
Tributary(ies) Cow Creek

HUC# 12090205,12070205 Stream miles (est.) 1.00

Drainage area: square miles, est 27.08 or acreage, est. 17,329

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. The existing crossing is a multiple (4) corrugated pipe culvert. The proposed improvements include structural flood damage repair. The existing road is a 2-lane road with an average daily traffic count of 109.

RFPG recommend X Yes

Population at risk 0

Structures at risk 1

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 307

Roadway(s) impacted (miles)

Scope of Study

Conduct a study to evaluate upsizing the existing 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 Mission Hills Street ID# 101000032

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 miles (est.) TBD

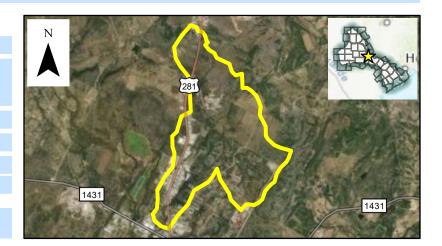
Drainage area: square miles, est 4.21 or

or acreage, est. 2,693

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 proposed improvements include building a multi-span bridge crossing. The existing main stem 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 745

Structures at risk 60

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 147

Roadway(s) impacted (miles)

0.81

Scope of Study

Conduct a study to evaluate upsizing the existing 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 Lum Rd, Hilltop Rd, FM 2919 N ID# 101000034

Sponsor (name of entity) Kendleton (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

name(s)

City Kendleton County Fort Bend Watershed Boone Branch - San Bernard River

Tributary(ies) Brooks Branch

HUC# 12090401

Stream miles (est.) TBD

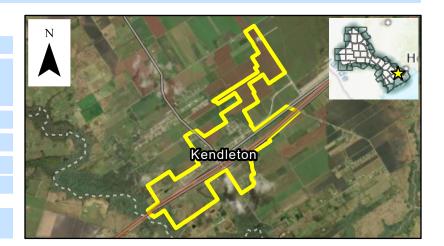
Drainage area: square miles, est 1.41

or acreage, est. 905

Social vulnerability index 0.1

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

Other Roadway/Crossing Improvements



Flood Risk Description

The existing crossings are undersized and overtop. The proposed improvements include upsizing the existing crossings. 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 risk and assess potential future projects.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.85

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# 101000035 Drainage Improvements to Crawford Outlet Right-of-Way Sponsor (name of entity) Kendleton (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

City Kendleton County Fort Bend

Watershed Boone Branch - San Bernard River

name(s)

Tributary(ies) Brooks Branch

HUC# 12090401

Stream miles (est.) TBD

Drainage area: square miles, est 1.41

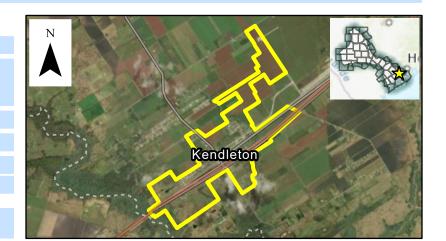
or acreage, est.

905

Social vulnerability index 0.1

(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 outlet/right-of-way stormwater infrastructure is undersized and the area is at risk of localized 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 No

Population at risk 12

Structures at risk 11

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 69

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. 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

\$50,000

Title Gene and Church Streets ID# 101000037

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Floodplain modeling, mapping and risk assessment

104

x Feasibility study

Preliminary project engineering

Other

Problem Area

City Needville County Fort Bend
Watershed Cedar Creek
name(s)

Technical committee recommend X Yes

Tributary(ies) Unnamed Tributary

HUC# 12090401,12070104

104 Stream miles (est.) TBD

Drainage area: square miles, est 0.16 or acreage, est.

Social vulnerability index 0.1

(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 proposed improvements include installation of culverts. The existing road is a 2-lane road with an average daily traffic count of 321. 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)

0.10

Scope of Study

Conduct a study to evaluate the proposed 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 \$50,000

Title 800 Block W San Antonio ID# 101000038

Sponsor (name of entity) Fredericksburg (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 Fredericksburg County Gillespie

Watershed name(s)

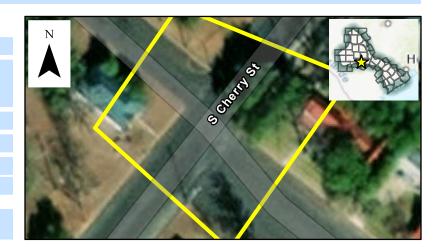
Tributary(ies) Unnamed Tributary

HUC# 12090206 Stream miles (est.) TBD

Drainage area: square miles, est 0.00 or acreage, est. 1

Social vulnerability index (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 is a multi-box (2) crossing. The proposed improvements include channels and drop structures. The existing road is a 2-lane road with an average daily traffic count of 510. 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)

0.15

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 \$50,000

Title South End of Acorn Street ID# 101000039

Sponsor (name of entity) Fredericksburg (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 Fredericksburg

County Gillespie

Watershed Barons Creek

name(s)

Tributary(ies) Barons Creek

HUC# 12090206

Stream miles (est.) 0.10

Drainage area: square miles, est 0.00

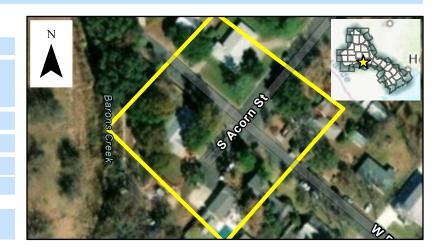
or acreage, est.

2

Social vulnerability index 0.1

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

Other Channel Improvements



Flood Risk Description

There is a lack of conveyance from Acorn Street to Barons Creek. Stormwater runs off public right-of-way through private property and is creating local flooding issues as well as eroding the left bank of the Creek. The existing risk indicators are based on available data and will be better defined as part of the study. Study results would 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)

0.10

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 \$50,000

Title Bowie & Peach Street ID# 101000042

Sponsor (name of entity) Fredericksburg (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 Fredericksburg

Watershed name(s)

Tributary(ies) Barons Creek

HUC# 12090206

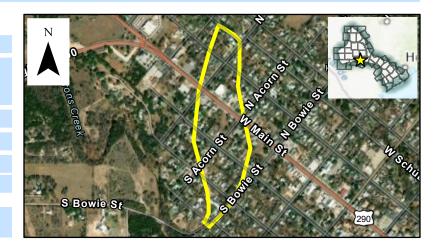
Stream miles (est.) TBD

Drainage area: square miles, est 0.06 or acreage, est. 36

Social vulnerability index 0.1

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

Other Drainage System Improvements



Flood Risk Description

The storm sewer system and curb inlets need to be upgraded to include two 36" RCPs. 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 250

Structures at risk 90

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

1.08

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. 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 Edison & Creek Street ID# 101000043

Sponsor (name of entity) Fredericksburg (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 Fredericksburg County Gillespie

Watershed name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090206 Stream miles (est.) 0.25

Drainage area: square miles, est 0.05 or acreage, est. 32

Social vulnerability index 0.1

(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 is a multi-box (2) culvert. The proposed improvements include upgrades to the subject crossing. The existing road is a 2-lane road with an average daily traffic count of 117.

Population at risk 0

Structures at risk 0

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 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)

6.1 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# 101000044 Title 112 W Park 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.) 0.10

Drainage area: square miles, est 0.00

or acreage, est. 0

Social vulnerability index 0.1

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

Other Channel Improvements



Flood Risk Description

There is a lack of conveyance from Park Street to Barons Creek. Stormwater runs off public right-of-way through private property and is creating local flooding issues as well as eroding the left bank of the Creek. 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)

0.10

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

\$50,000

ID# 101000047 **Downtown Fredericksburg Storm Drainage Improvements** Sponsor (name of entity) Fredericksburg (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

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Fredericksburg

County Gillespie

Watershed Headwaters Pedernales River

Technical committee recommend X Yes

name(s)

Tributary(ies) Town Creek

HUC# 12090206

Stream miles (est.) TBD

Drainage area: square miles, est 0.38

or acreage, est.

240

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 Sponsor has indicated the existing stormwater infrastructure in the study area is undersized (less than 2-year capacity) 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 1,450

Structures at risk 530

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 4

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. 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

\$1,500,000

Title Trailmoor near Llano Hwy ID# 101000048

Sponsor (name of entity) Fredericksburg (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

168

RFPG recommend X Yes

Feasibility study

x Preliminary project engineering

Other

Problem Area

City Fredericksburg

County Gillespie

Watershed Barons Creek

name(s)

Tributary(ies) Town Creek

HUC# 12090206

Stream miles (est.) TBD

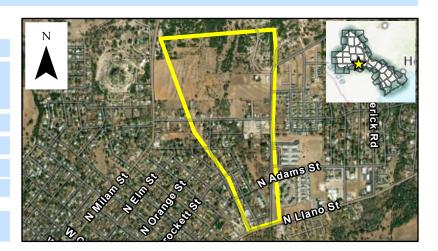
Drainage area: square miles, est 0.26

or acreage, est.

or a

Social vulnerability index 0.1 (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 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 209

Structures at risk 11

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 12

Roadway(s) impacted (miles)

0.23

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. 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 \$250,000

Title Drainage Channel near EMS Building ID# 101000050

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

REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

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.) 0.50

Drainage area: square miles, est 0.00

or acreage, est.

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Social vulnerability index 0.1

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

Other Channel Improvements/erosion protection



Flood Risk Description

There is existing erosion along the Pedernales River Tributary 2 near the City's Emergency Management System building that is threatening utilities servicing the building and nearby residential structures. 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 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)

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 Bob White Trail ID# 101000051

Sponsor (name of entity) Fredericksburg (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 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 0.01

or acreage, est.

Social vulnerability index 0.1

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

Other Roadway/Crossing Improvements & Storm Drainage System



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-pipe (2) 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)

0.10

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 \$50,000

Title N Edison Low Water Crossing ID# 101000053

Sponsor (name of entity) Fredericksburg (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 Fredericksburg

County Gillespie

Watershed Barons Creek
name(s)

Tributary(ies) Town Creek

HUC# 12090206

Stream miles (est.) TBD

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

Social vulnerability index 0.1
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Roadway/Crossing Improvements and Install Flood Early Waning



Flood Risk Description

The existing crossing is undersized and overtops. The existing crossing is a single pipe culvert. The proposed improvements include redesigning the intersection and installing FEWS. 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)

0.02

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)

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 Schubert Low Water Crossing ID# 101000054

Sponsor (name of entity) Fredericksburg (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 Fredericksburg County Gillespie

Watershed Barons Creek
name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090206 Stream miles (est.) TBD

Drainage area: square miles, est 2.43 or acreage, est. 1,556

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 existing crossing consists of a single pipe culvert. The proposed improvements include lowering the channel and adding drop structures and installing five 9'x5' box culverts. The existing road is a 2-lane road with an average daily traffic count of 269. 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)

0.10

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 \$50,000

Title 200 Block N Orange ID# 101000055

Sponsor (name of entity) Fredericksburg (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 Fredericksburg

County Gillespie

Watershed name(s)

Barons Creek

Tributary(ies) Town Creek

HUC# 12090206

Stream miles (est.) 0.50

Drainage area: square miles, est 0.02 or acreage, est. 14

Social vulnerability index 0.1

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

Other Channel Improvements/erosion protection



Flood Risk Description

Town Creek is eroding on the downstream side of Orange Street. Localized scour is occurring at the outfall and along this steeper section of the channel threatening existing utilities. 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 60

Structures at risk 20

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.10

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 \$50,000

Title Crockett Street South of Travis ID# 101000056

Sponsor (name of entity) Fredericksburg (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 Fredericksburg County Gillespie

Watershed name(s)

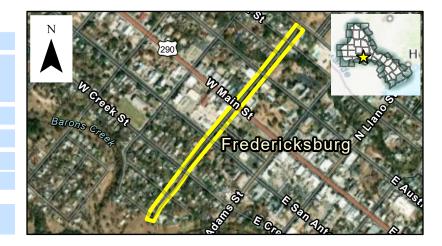
Tributary(ies) Barons Creek

HUC# 12090206 Stream miles (est.) TBD

Drainage area: square miles, est 0.01 or acreage, est. 7

Social vulnerability index 0.1

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



Flood Risk Description

Other Drainage System Improvements

The storm sewer system needs to be created to capture flow with curb/drop inlets to mitigate flows. 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 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 130

Structures at risk 44

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

1.05

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. 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 Cross Mountain West ID# 101000057

Sponsor (name of entity) Fredericksburg (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 Fredericksburg County Gillespie

Watershed name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090206 Stream miles (est.) TBD

Drainage area: square miles, est 0.01 or acreage, est. 8

Social vulnerability index 0.1

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



Flood Risk Description

Other Drainage System Improvements

Drainage system along Cross Mountain West is undersized and 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 60

Structures at risk 24

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.57

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. 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 N Milam at West Travis ID# 101000058

Sponsor (name of entity) Fredericksburg (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 Fredericksburg

County Gillespie

Watershed Barons Creek

name(s)

Tributary(ies) Town Creek

HUC# 12090206

Stream miles (est.) TBD

Drainage area: square miles, est 0.01

or acreage, est.

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Social vulnerability index 0.1

(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 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 30

Structures at risk 12

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.44

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. 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# 101000059 Title Repair of Little Barton Creek Dam Sponsor (name of entity) Dripping Springs (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 Dripping Springs

County Hays

Watershed Headwaters Barton Creek

name(s)

Tributary(ies) Little Barton Creek

HUC# 12090205 Stream miles (est.) 0.50

Drainage area: square miles, est 0.00

or acreage, est. 2

Social vulnerability index 0.17

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

Other Dam Improvements



Flood Risk Description

Dripping Springs Park Dam is a small earthen embankment dam with earthen spillway upstream of HWY 12. The dam does not appear to be regulated by the TCEQ due to size and volume and the existing flood risk is not well defined. 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. The Sponsor has identified the need to work with FEMA to evaluate and remediate the dam.

Population at risk 30

Structures at risk 10

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 2

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 Floodplain/Floodway Audit ID# 101000060

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend X Yes No

x Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City Hays

Watershed Bear Creek name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090205 Stream miles (est.) TBD

Drainage area: square miles, est 0.21 or acreage, est. 135

Social vulnerability index 0.17

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



Flood Risk Description

Other Watershed Study

The tributary to Bear Creek runs through the southern and northern limits of the City and there are multiple houses adjacent to the 100-year floodplain that may be at risk of flooding. 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 1

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 4

Roadway(s) impacted (miles)

0.04

Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) and may 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 \$50,000

Title Prepare Evacuation Plan ID# 101000061

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

x Emergency preparedness

Technical committee recommend X Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend X Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City Mountain City

County Hays

Watershed Mustang Branch - Onion Creek

name(s)

Tributary(ies) Unnamed Tributary

HUC# 12090205,12100203

Stream miles (est.) TBD

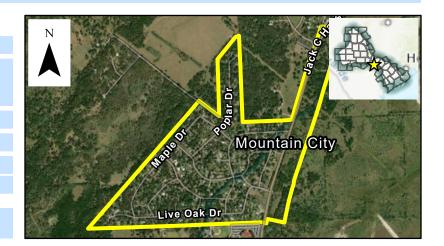
Drainage area: square miles, est 0.42

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 Sponsor's evacuation plan(s) are out of date and need to be updated to assist with emergency coordination during a flood event.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

0.00

Scope of Study

Coordinate with agencies and local governments as necessary to develop/update the evacuation plan.

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 \$25,000