FME Batch 2A 25-May-22

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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 Yes

Emergency preparedness Floodplain modeling, mapping and risk assessment

Feasibility study

X Preliminary project engineering

Other

Problem Area

City Smithville County Bastrop

Watershed Nillow Creek - Colorado River

Tributary(ies) Unnamed Tributary

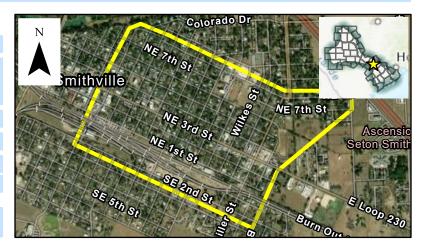
HUC# 12090301 Stream miles (est.) TBD

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 exact 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 Yes

Population at risk 3,300

Structures at risk 1,200

Critical facilities at risk 0

0.00

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, 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 roadway

Estimated Study Cost

Cost \$250,000

Potential funding source(s) TBD

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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

Technical committee recommend Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend Yes

Feasibility study

X Preliminary project engineering

Other

Problem Area

City N/A County Bastrop

Watershed Alum Creek, Gravelly Creek name(s)

Tributary(ies) Unnamed Tributary

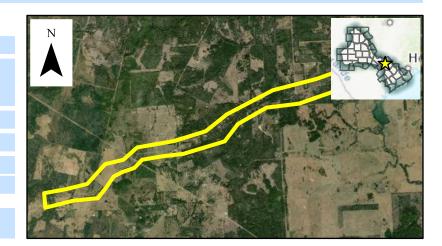
HUC# 12090301 Stream miles (est.) TBD

Drainage area: square miles, est 1.21 or acreage, est. 778

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.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (miles)

1.34

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

Potential funding source(s) TBD

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Title Lakeview Drive & Tuck Street ID# 101000005

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 Yes

Floodplain modeling, mapping and risk assessment

Feasibility study

X Preliminary project engineering

Other

Problem Area

City N/A County Bastrop

Watershed Greens Creek - Cedar Creek
name(s)

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.)



Flood Risk Description

Other Drainage system improvements

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 exact 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 Yes No

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 roadway

Estimated Study Cost

Cost \$100,000

Potential funding source(s) TBD

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Title Clear Springs Lake Dam ID# 101000008

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 Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend Yes

Feasibility study

X 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 beach. The dam does not appear to be regulated by the TCEQ due to size and volume and the exact 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 0

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, 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

Potential funding source(s) TBD

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Title Gills Branch ID# 101000023

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

Technical committee recommend Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend Yes

Feasibility study

X Preliminary project engineering

Other

Problem Area

City Bastrop

Watershed name(s)

Copperas Creek - Colorado River

Tributary(ies) Gills Branch

HUC# 12090301 Stream miles (est.) 0.50

Drainage area: square miles, est 0.03 or acreage, est. 21

Social vulnerability index 0.61

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



Flood Risk Description

Other Drainage System Improvements

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. 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)

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)

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 roadway

Estimated Study Cost

Cost \$100,000

Potential funding source(s) TBD

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Title FM 812 at Little Alum Creek ID# 101000027

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

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Technical committee recommend Yes

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

RFPG recommend Yes

X Preliminary project engineering

Problem Area

City N/A County Bastrop

Watershed Alum Creek - Walnut Creek
name(s)

Tributary(ies) Little Alum Creek

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.

Population at risk 0

Structures at risk 25

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 60

Roadway(s) impacted (miles)

0.31

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)

6.1 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

Potential funding source(s) TBD

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Title FM 812 at Alum Creek South ID# 101000028

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 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

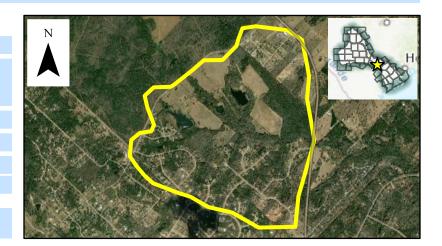
Stream miles (est.) TBD

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 bride 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.

RFPG recommend 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)

0.08

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 \$100,000

Potential funding source(s) TBD

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Title Piney Creek Benching ID# 101000102

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, map

Technical committee recommend Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend Yes

Feasibility study

X Preliminary project engineering

Other

Problem Area

City N/A County Bastrop

Watershed spicer Creek - Piney Creek
name(s)

Tributary(ies) Piney Creek

HUC# 12090301 Stream miles (est.) 1.50

Drainage area: square miles, est 0.12 or acreage, est. 78

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

Other Channel Improvements



Flood Risk Description

The existing channel from upstream of HWY 95 to the Colorado River is undersized threatening multiple road crossings as well as houses on Magnolia Street, Mesquite street, and in the Bastrop Estates Mobile Home Park. The city has identified channel benching (approx. 4,430 feet) to increase conveyance as a potential solution.

Population at risk 42

Structures at risk 9

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 37

Roadway(s) impacted (miles)

0.19

Scope of Study

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

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$200,000

Potential funding source(s) TBD

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ID# 101000103 Drainage System Improvements - JC Madison Addition 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 Yes

Floodplain modeling, mapping and risk assessment

RFPG recommend Yes

Feasibility study

X Preliminary project engineering

Other

Problem Area

City N/A

County Bastrop

Watershed Wilbarger Bend, Colorado River, Lower Wilbarger Creek, Big name(s) Sandy Creek - Colorado River

Tributary(ies) Wilbarger Creek

HUC# 12090301

Stream miles (est.) TBD

Drainage area: square miles, est 48.24

or acreage, est.

30,874

Social vulnerability index 0.61

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

Other Drainage System Improvements



Flood Risk Description

Additions to the watershed would require improvements to the existing undersized drainage system in the JC Madison Addition. 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 exact 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 61

Structures at risk 103

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 5,786

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

Potential funding source(s) TBD

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Title Citywide Drainage System Improvements ID# 101000104

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, mapping and risk assessment

Feasibility study

X Preliminary project engineering

Other

Problem Area

City Smithville County Bastrop

Watershed Willow Creek - Colorado River

Technical committee recommend Yes

name(s)

Tributary(ies) Gazley Creek, Willow Creek

HUC# 12090301

Stream miles (est.) TBD

Drainage area: square miles, est 4.02 or acreage, est. 2,570

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.

RFPG recommend Yes No

Population at risk 603

Structures at risk 84

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 335

Roadway(s) impacted (miles)

3.79

Scope of Study

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

Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$500,000

Potential funding source(s) TBD

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

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

Lower Colorado-Lavaca REGIONAL FLOOD PLANNING GROUP

REGION 10

Study Type

Technical committee recommend Yes

Emergency preparedness Floodplain modeling, mapping and risk assessment

Feasibility study

X Preliminary project engineering

Other

Problem Area

City N/A

County Bastrop

Watershed Alum Creek
name(s)

Tributary(ies) Price Creek

HUC# 12090301 Stream miles (est.) TBD

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

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

Other Roadway/Crossing Improvements



Flood Risk Description

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

RFPG recommend Yes No

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 6

Roadway(s) impacted (miles)

0.02

Scope of Study

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

Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

Estimated Study Cost

Cost \$100,000

Potential funding source(s) TBD

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Title Develop New/Updated Floodplain Maps ID# 101000108

Sponsor (name of entity) Johnson City (Municipality) Commitment X Yes No

Lower Colorado-Lavaca
REGIONAL FLOOD
PLANNING GROUP

REGION 10

Study Type

Emergency preparedness

X Floodplain modeling, mapping and risk assessment

RFPG recommend Yes

Feasibility study

Preliminary project engineering

Other

Problem Area

City Johnson City County Blanco

Technical committee recommend Yes No

Watershed Towhead Creek - Pedernales River, Cottonwood Creek - name(s) Pedernales River

Tributary(ies) Town Creek

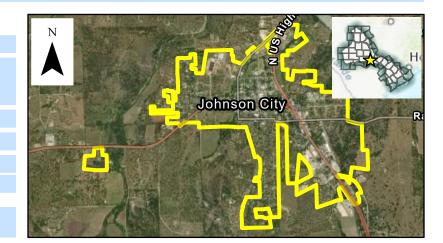
HUC# 12090206 Stream miles (est.) TBD

Drainage area: square miles, est 1.80 or acreage, est. 1,151

Social vulnerability index 0.07

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

Other Watershed Study



Flood Risk Description

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

Population at risk 408

Structures at risk 47

Critical facilities at risk 0

2.06

Farm/Ranch land impacted (acres) 67

Roadway(s) impacted (miles)

Scope of Study

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

Related Goal(s)

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

Estimated Study Cost

Cost \$250,000

Potential funding source(s) TBD

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