

VOLUME 2  
Appendix 5-C

# REGION 5 NECHES 2023 REGIONAL FLOOD PLAN

JULY 2023

DRAFT

PREPARED FOR THE  
REGION 5 NECHES FLOOD PLANNING GROUP

**DRAFT**

**APPENDIX 5-C  
FLOOD MANAGEMENT EVALUATIONS (FME), FLOOD MANAGEMENT  
STRATEGIES (FMS), AND FLOOD MITIGATION PROJECT ONE-PAGERS**

# Flood Management Strategy (FMS)

REGION 5



Title City of Diboll Ordinance and Regulation Update

ID# 052000061 Sponsor Diboll (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Angelina  
 Strategy description Update building code and subdivision ordinance to include restrictions on the distance a structure can be built from active streams and creeks.

- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.  
 Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.  
 Goal(s) Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 610 # of structures 118 Critical facilities 6  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 4  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

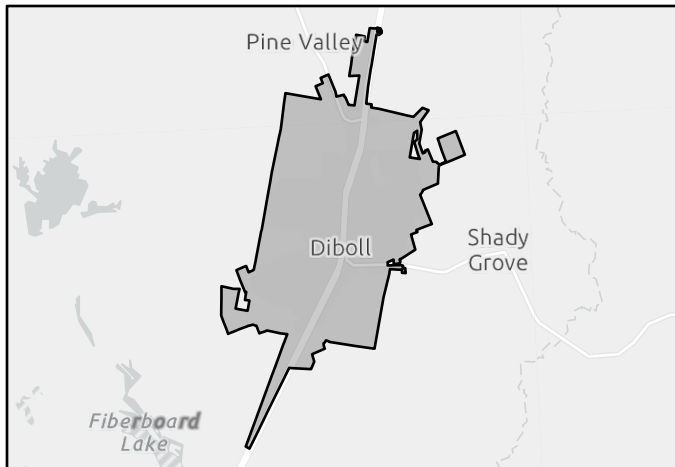
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

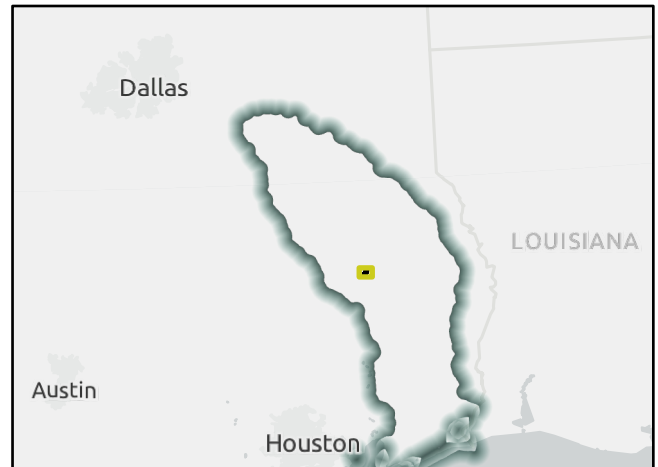
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$10,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Cuney Bridge and Culvert Inspection Program

ID# 052000062 Sponsor Cuney (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Cherokee  
 Strategy description Plan and implement a program to regularly inspect low-lying bridges and highway culverts, clear debris, and create safe pathways for excess water runoff, to avoid flooding.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.  
 Goal 3: Give notice to 100% of affected units of local government and solicit funding applications for improvement or removal of 25% of Low Water Crossings identified in the latest Regional Flood Plan.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 0 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

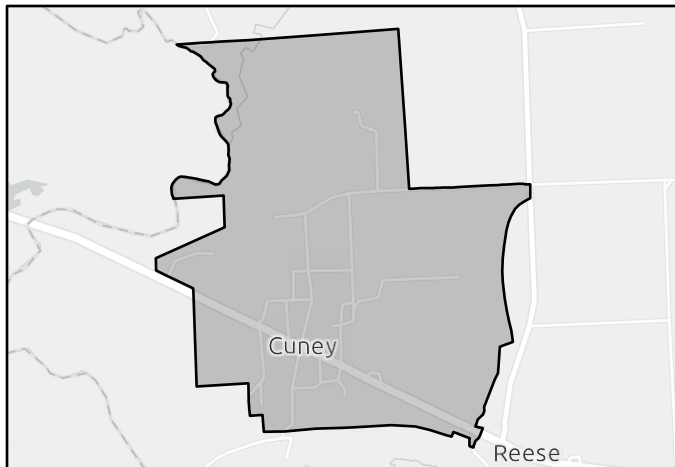
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

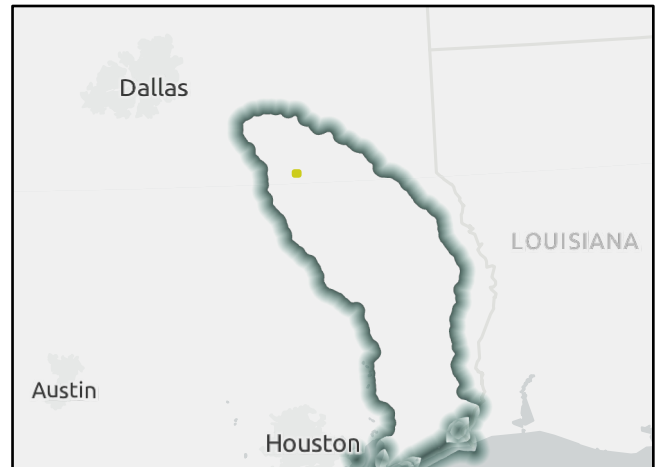
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$25,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Cuney Seek NFIP Participation

ID# 052000063 Sponsor Cuney (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Cherokee

Strategy description Pass appropriate Resolutions and Ordinances for participation in the National Flood Insurance Program.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 0 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

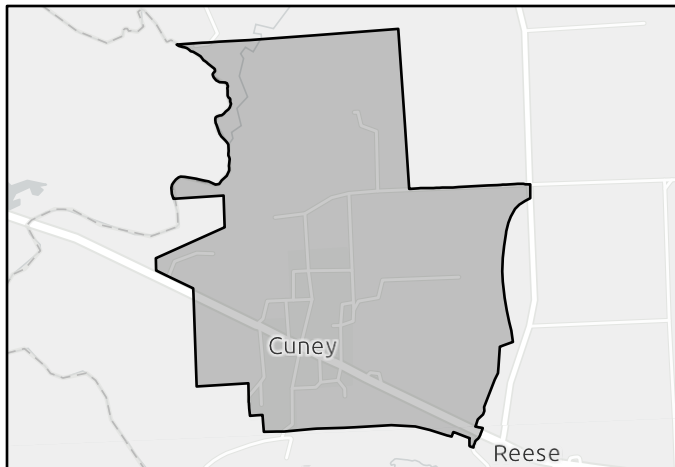
## Impacts

Negative impacts? No Negative impacts description -

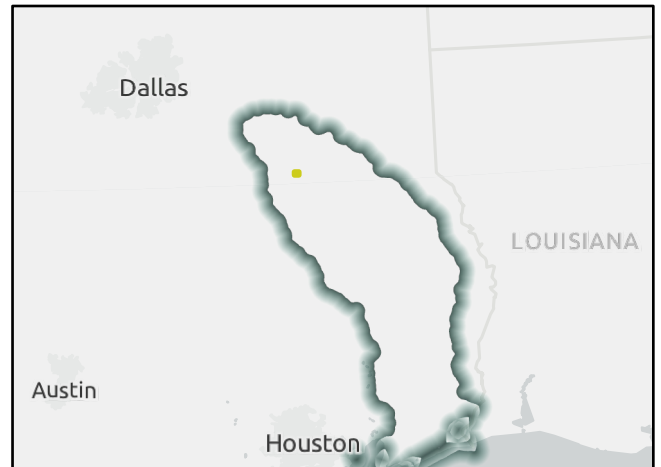
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$5,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Gallatin Multi-Jurisdiction Coordination

ID# 052000064 Sponsor Gallatin (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Cherokee

Strategy description Work with County or TXDOT to increase drainage capacity in sites that are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

## Existing 100-Year Flood Risk

Population at risk	0	# of structures	2	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	60	Roadway(s) impacted (miles)	1		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

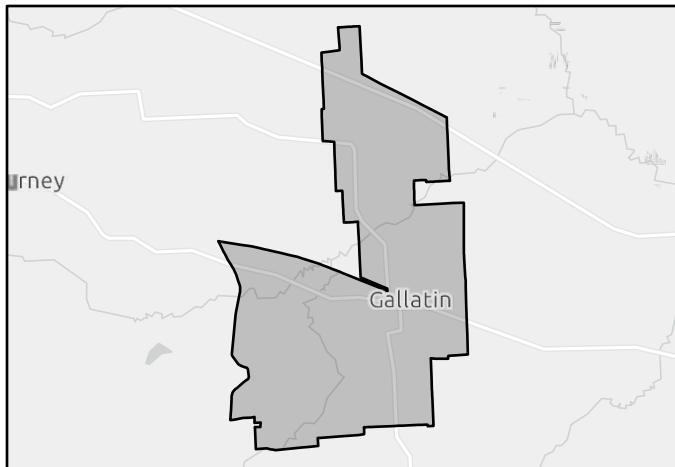
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

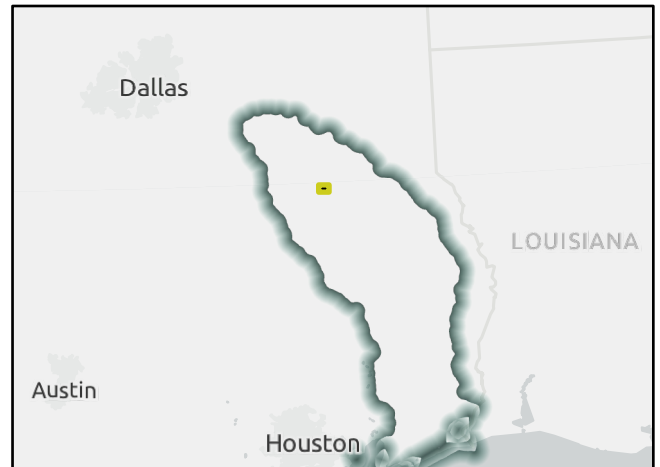
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$5,000	Amount of available funding	-	% Nature-Based	0
---------------	---------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Jacksonville Multi-Jurisdiction Coordination

ID# 052000065 Sponsor Jacksonville (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Cherokee

Strategy description Work with County or TXDOT to increase drainage capacity in sites that are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

## Existing 100-Year Flood Risk

Population at risk	606	# of structures	192	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	4	Roadway(s) impacted (miles)	4		
Number of low water crossings	7	Historical road closures	7		

## 100-Year Flood Risk Reduction

Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$10,000	Amount of available funding	-	% Nature-Based	0
---------------	----------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Reklaw Improved Enforcement of Ordinances

ID# 052000066 Sponsor Reklaw (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Cherokee

Strategy description Improve the long-range management and use of flood-prone areas by the adoption and enforcement of local ordinances to regulate new development within the floodplain. Review and revise ordinances, when needed.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 1 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

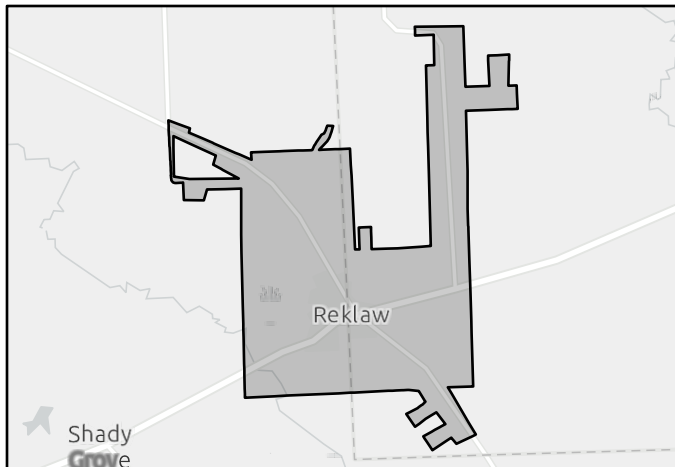
## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$10,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title City of Rusk Flood Maps Maintenance and Update

ID# 052000067 Sponsor Rusk (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Cherokee

Strategy description Work with state and federal agencies to maintain current flood maps.

- Goal 1: Increase the coverage of flood hazard data across the region by completing detailed studies that utilize consistent methodology in 75% of areas identified as having current gaps in flood mapping.
- Goal(s) Goal 2: Increase the coverage of flood hazard data across the region by completing detailed studies that utilize consistent methodology in 100% of areas identified as having current gaps in flood mapping.

## Existing 100-Year Flood Risk

Population at risk	462	# of structures	41	Critical facilities	0
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> No	Local? <input checked="" type="checkbox"/> Yes	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> No
Farm/Ranch land impacted (acres)	1	Roadway(s) impacted (miles)	2		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

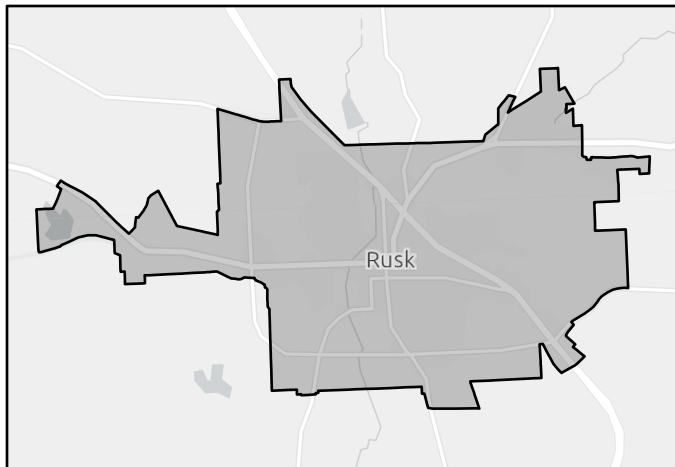
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	<input type="checkbox"/> No	Negative impacts description	-
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$10,000	Amount of available funding	-	% Nature-Based	0
---------------	----------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	<input type="text" value="10,528"/>	# of structures	<input type="text" value="3,678"/>	Critical facilities	<input type="text" value="25"/>
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> No	Local? <input type="checkbox"/> No	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> Yes
Farm/Ranch land impacted (acres)	<input type="text" value="743"/>	Roadway(s) impacted (miles)	<input type="text" value="136"/>		
Number of low water crossings	<input type="text" value="13"/>	Historical road closures	<input type="text" value="13"/>		

## 100-Year Flood Risk Reduction

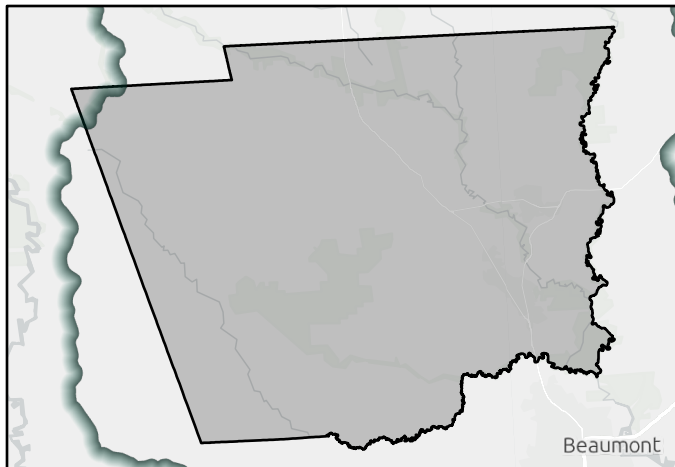
Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

## Impacts

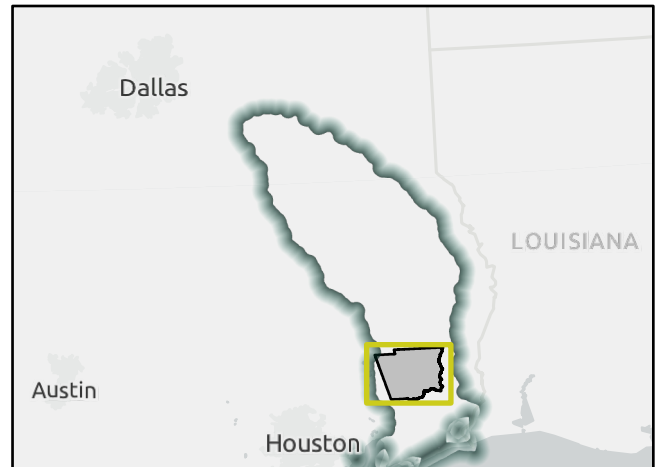
Negative impacts?	<input type="checkbox"/> No	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	<input type="text" value="-"/>

## Estimated Cost

Strategy Cost	<input type="text" value="\$80,000"/>	Amount of available funding	<input type="text" value="-"/>	% Nature-Based	<input type="text" value="0"/>
---------------	---------------------------------------	-----------------------------	--------------------------------	----------------	--------------------------------



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: 50% of the region's population is part of an entity that has a dedicated drainage charge, fee, or other continuous funding mechanism for the maintenance and/or restoration of flood infrastructure.

Goal(s) Goal 2: 75% of the region's population is part of an entity that has a dedicated drainage charge, fee, or other continuous funding mechanism for the maintenance and/or restoration of flood infrastructure.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  No Playa?  No Other?  Yes

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

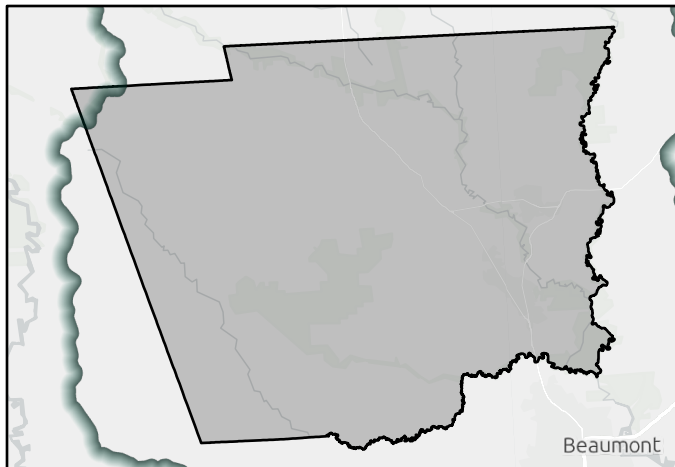
## Impacts

Negative impacts?  No Negative impacts description

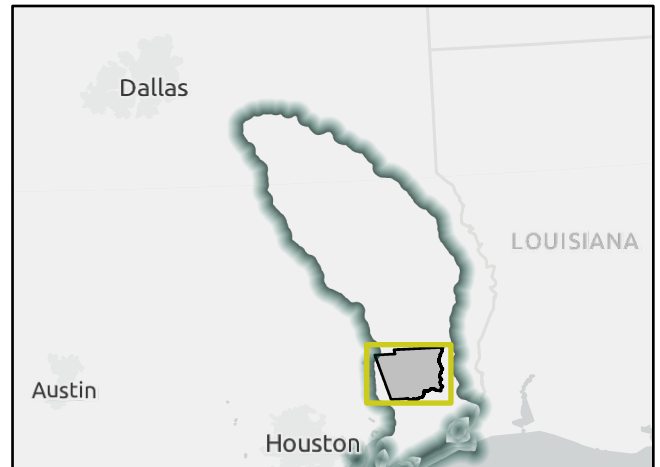
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Kountze Continued NFIP Participation

ID# 052000070 Sponsor Kountze (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Hardin

Strategy description Continue participation in the NFIP and initiate participation in CRS. Includes improvement of flood mapping and elevation data, mitigation for repetitive loss properties, and instituting higher regulatory standards for future floodplain development.

Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.

Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 2 # of structures 3 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 1

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

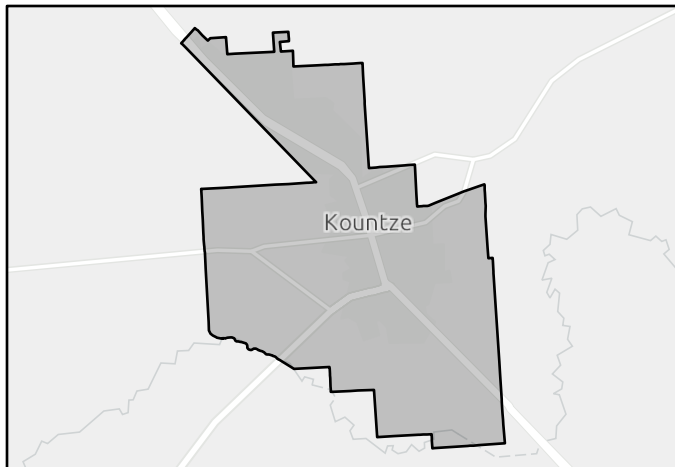
## Impacts

Negative impacts? No Negative impacts description -

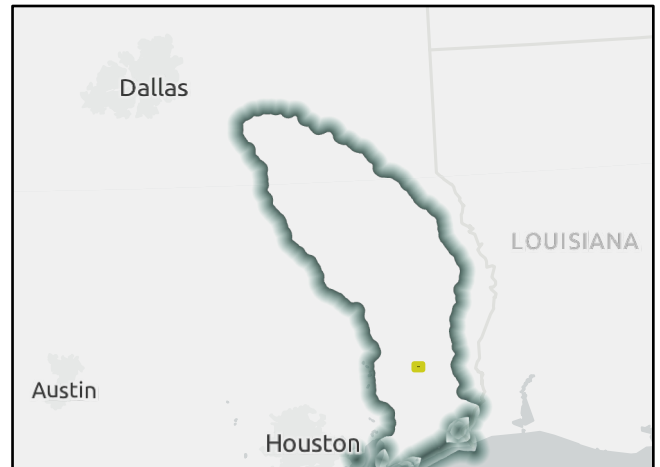
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$60,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Lumberton Continued NFIP Participation

ID# 052000071 Sponsor Lumberton (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Hardin  
 Strategy description Continue participation in the NFIP and initiate participation in CRS. Includes improvement of flood mapping and elevation data, mitigation for repetitive loss properties, and instituting higher regulatory standards for future floodplain development.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.  
 Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.  
 Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 658 # of structures 235 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 23 Roadway(s) impacted (miles) 4  
 Number of low water crossings 1 Historical road closures 1

## 100-Year Flood Risk Reduction

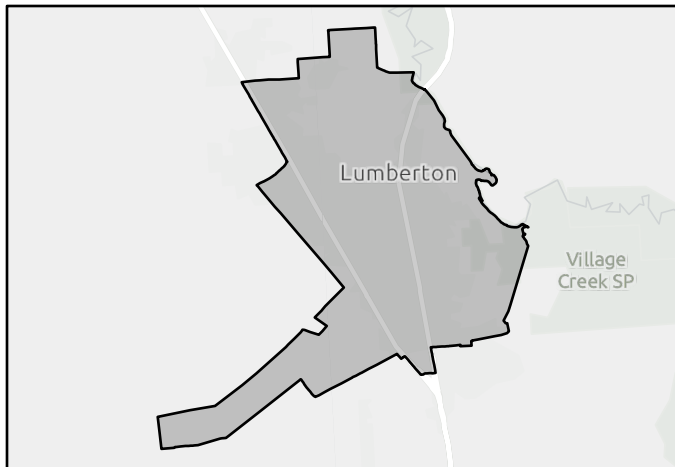
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$80,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Rose Hill Acres Continued NFIP Participation

ID# 052000072 Sponsor Rose Hill Acres (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Hardin

Strategy description Continue participation in the NFIP and initiate participation in CRS. Includes improvement of flood mapping and elevation data, mitigation for repetitive loss properties, and instituting higher regulatory standards for future floodplain development.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	278	# of structures	134	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? No	Playa? No	Other? No
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (miles)	2		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

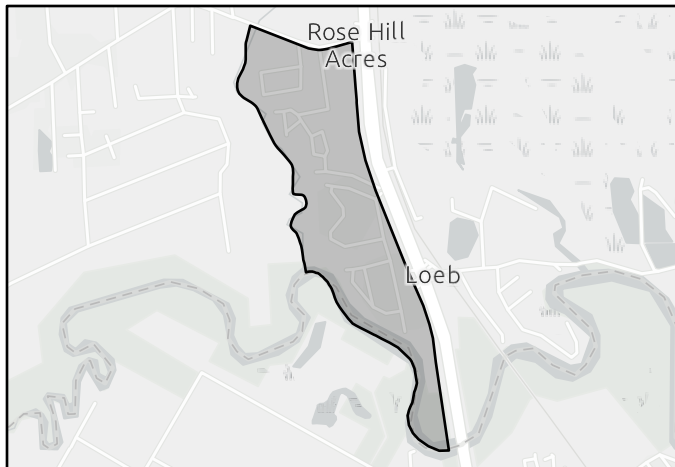
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

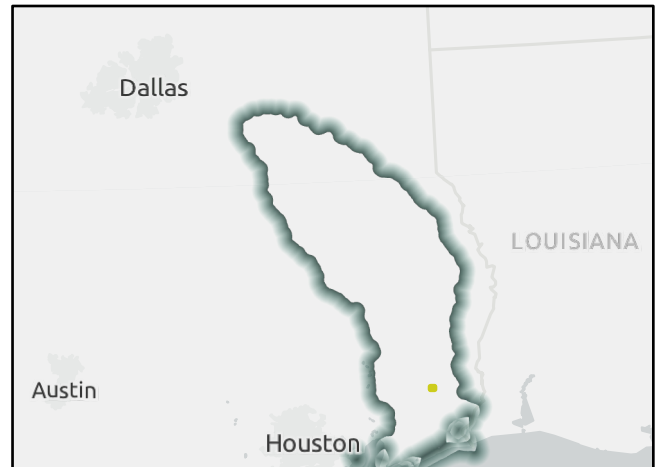
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$80,000	Amount of available funding	-	% Nature-Based	0
---------------	----------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Silsbee Continued NFIP Participation

ID# 052000073 Sponsor Silsbee (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Hardin  
 Strategy description Continue participation in the NFIP and initiate participation in CRS. Includes improvement of flood mapping and elevation data, mitigation for repetitive loss properties, and instituting higher regulatory standards for future floodplain development.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.  
 Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.  
 Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 780 # of structures 87 Critical facilities 2  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 2  
 Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

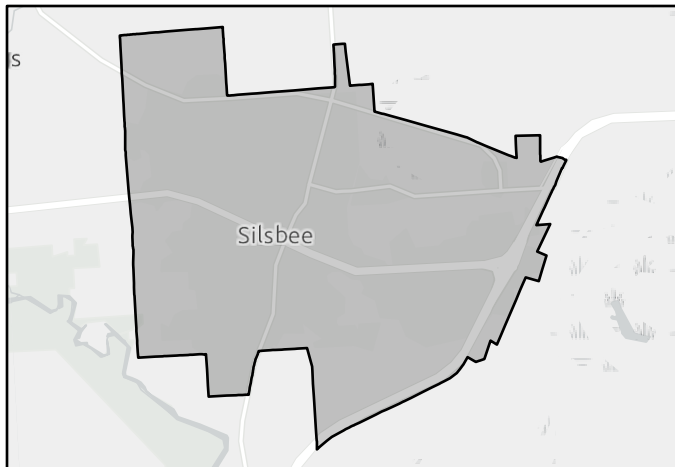
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$50,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Sour Lake Continued NFIP Participation

ID# 052000074 Sponsor Sour Lake (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Hardin  
 Strategy description Continue participation in the NFIP and initiate participation in CRS. Includes improvement of flood mapping and elevation data, mitigation for repetitive loss properties, and instituting higher regulatory standards for future floodplain development.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.  
 Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.  
 Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 1,687 # of structures 435 Critical facilities 7  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 7 Roadway(s) impacted (miles) 8  
 Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

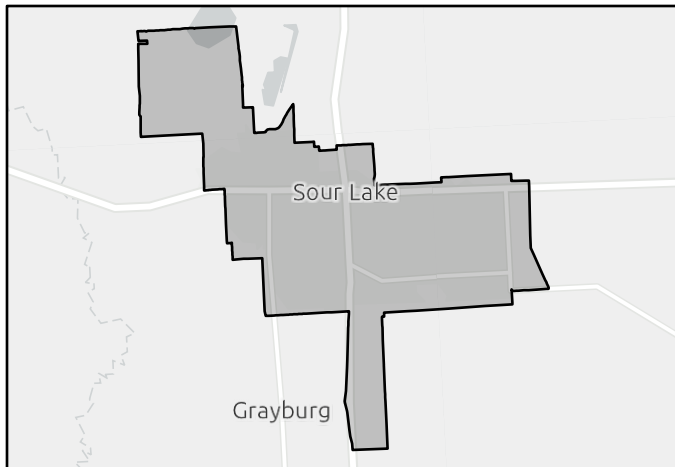
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

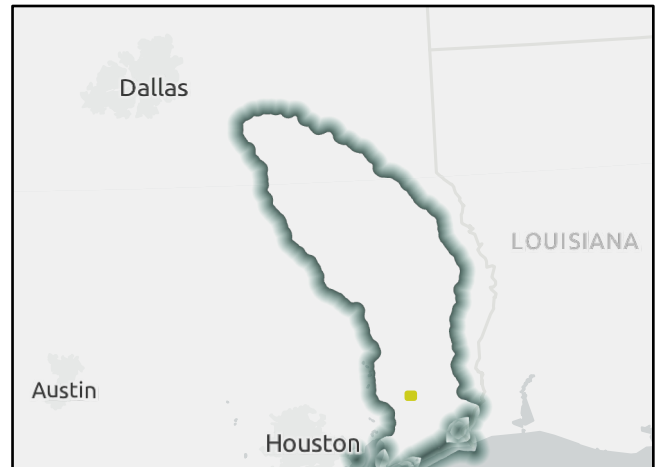
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$60,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal(s) Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  Yes

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

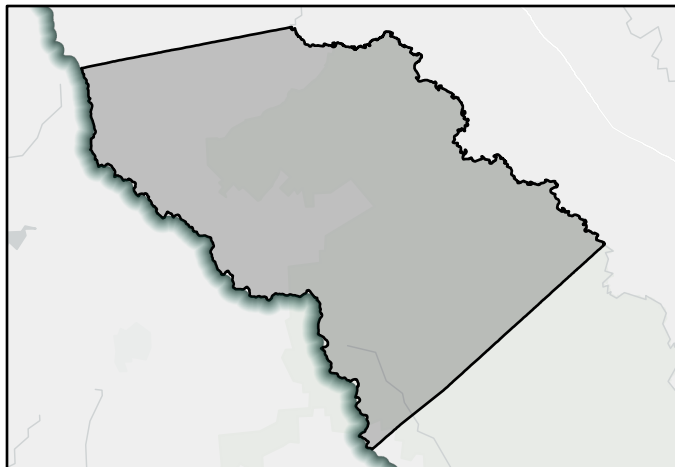
## Impacts

Negative impacts?  Negative impacts description

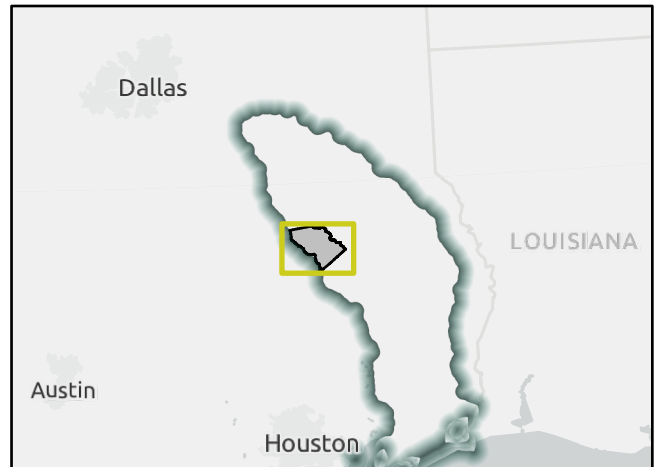
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title JCDD6 Multi-Jurisdiction Coordination

ID# 052000076 Sponsor Jefferson County Drainage District 6

RFPG recommend?  Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Jefferson

Strategy description Increase coordination with the City and County regarding flood predictions and post event recovery.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

## Existing 100-Year Flood Risk

Population at risk 20,772 # of structures 6,491 Critical facilities 30

Flood risk type: Riverine?  Yes Coastal?  Yes Local?  No Playa?  No Other?  Yes

Farm/Ranch land impacted (acres) 20,945 Roadway(s) impacted (miles) 215

Number of low water crossings 16 Historical road closures 16

## 100-Year Flood Risk Reduction

Population removed from 100-yr 286 # of structures removed from 100-yr 101

Critical facilities removed from 100-yr 4 Farm/Ranch land removed from 100-yr (acres) 45

Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0

Other benefits - Reduction in # of road closures over 10 years -

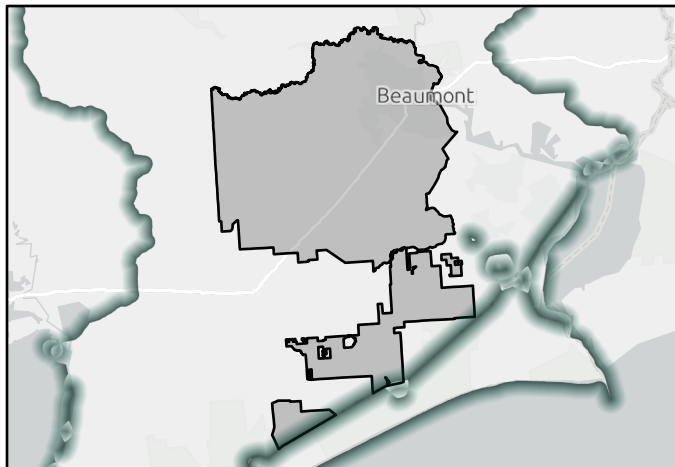
## Impacts

Negative impacts?  No Negative impacts description -

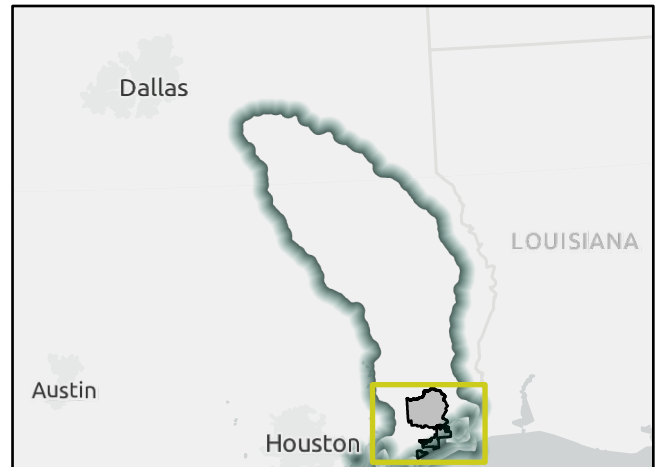
Water supply contributions?  No Water supply contribution description -

## Estimated Cost

Strategy Cost \$20,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title JCDD6 Severe Weather Action Plan

ID# 052000077 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Jefferson

Strategy description Create severe weather action plan, conduct drills, identify and promulgate evacuation and sheltering options.

Goal 1: 100% of counties to perform public education and awareness campaigns to better inform the public of flood-related risks on an annual basis.

Goal(s) Goal 2: Maintain 100% participation of counties performing public education and awareness campaigns to better inform the public of flood-related risks on an annual basis.

## Existing 100-Year Flood Risk

Population at risk	20,772	# of structures	6,491	Critical facilities	30
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> Yes	Local? <input type="checkbox"/> No	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> Yes
Farm/Ranch land impacted (acres)	20,945	Roadway(s) impacted (miles)	215		
Number of low water crossings	16	Historical road closures	16		

## 100-Year Flood Risk Reduction

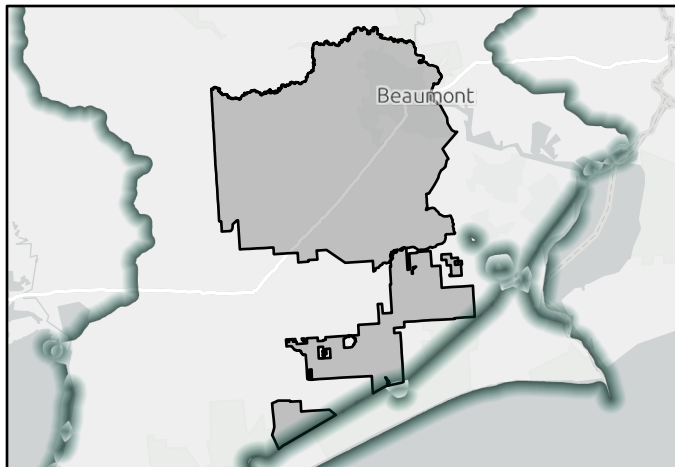
Population removed from 100-yr	286	# of structures removed from 100-yr	101
Critical facilities removed from 100-yr	4	Farm/Ranch land removed from 100-yr (acres)	45
Road removed from 100-yr (miles)	0	Low water crossings removed from 100-yr	0
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

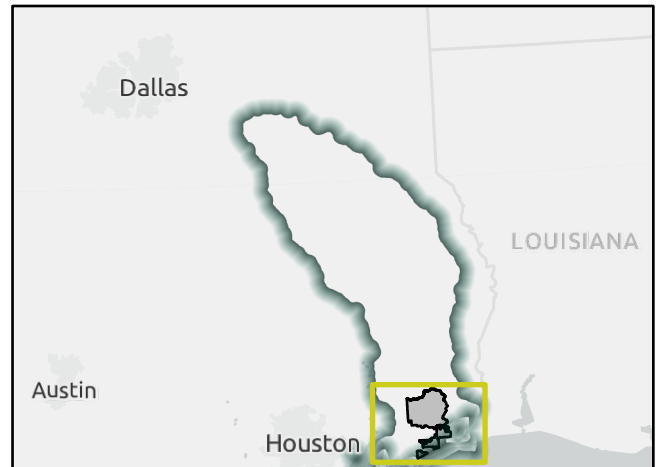
Negative impacts?	<input type="checkbox"/> No	Negative impacts description	-
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$60,000	Amount of available funding	-	% Nature-Based	0
---------------	----------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal(s)
- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
  - Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
  - Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
  - Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk	<input type="text" value="17,575"/>	# of structures	<input type="text" value="4,705"/>	Critical facilities	<input type="text" value="82"/>
Flood risk type:	Riverine? <input type="text" value="Yes"/>	Coastal? <input type="text" value="Yes"/>	Local? <input type="text" value="No"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="Yes"/>
Farm/Ranch land impacted (acres)	<input type="text" value="876"/>	Roadway(s) impacted (miles)	<input type="text" value="95"/>		
Number of low water crossings	<input type="text" value="3"/>	Historical road closures	<input type="text" value="3"/>		

## 100-Year Flood Risk Reduction

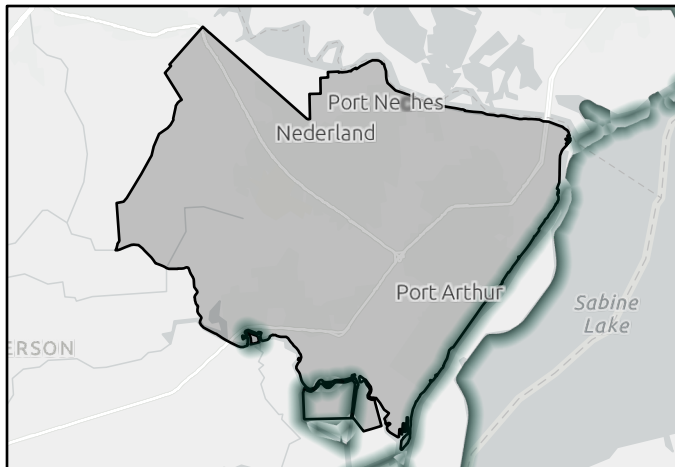
Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

## Impacts

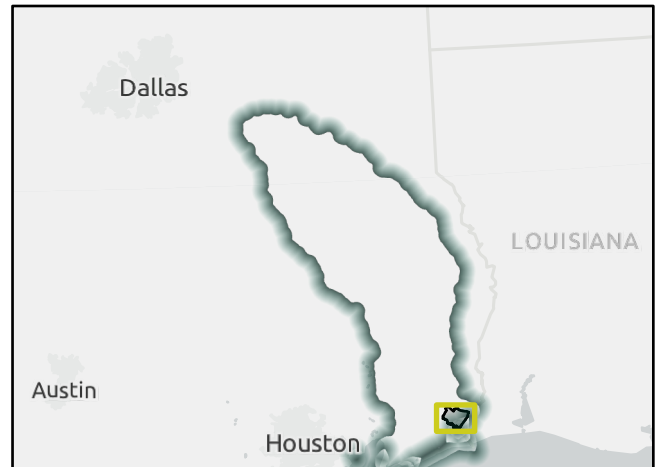
Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

## Estimated Cost

Strategy Cost	<input type="text" value="\$50,000"/>	Amount of available funding	<input type="text" value="-"/>	% Nature-Based	<input type="text" value="0"/>
---------------	---------------------------------------	-----------------------------	--------------------------------	----------------	--------------------------------



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Daisetta Property Construction Ordinance

ID# 052000079 Sponsor Daisetta (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Liberty  
 Strategy description The city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 0 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

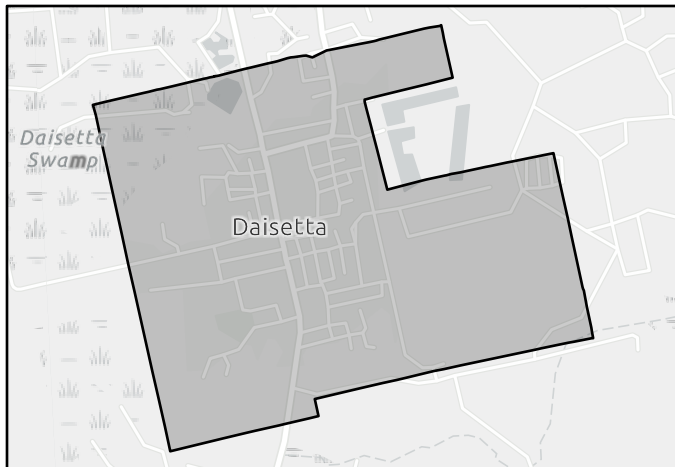
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

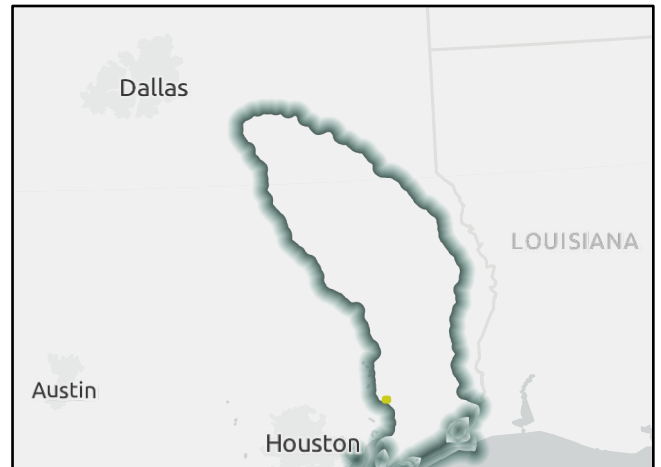
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$10,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Daisetta Property Elevation Ordinance

ID# 052000080 Sponsor Daisetta (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Liberty

Strategy description The city shall adopt a land use ordinance which requires any structure within the 100-year floodplain to be elevated 2 feet above base flood elevation.

Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 0 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

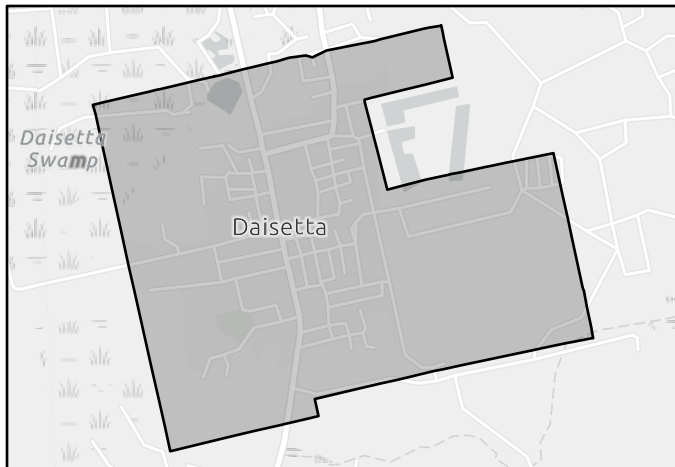
## Impacts

Negative impacts? No Negative impacts description -

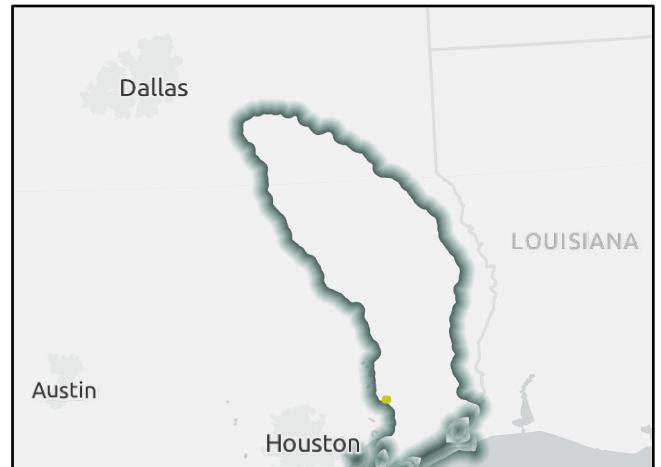
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$5,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Hardin Subdivision Ordinance Implementation

ID# 052000081 Sponsor Hardin (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Liberty

Strategy description Implement subdivision ordinance regulations concerning building in flood-prone areas.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 1 # of structures 1 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

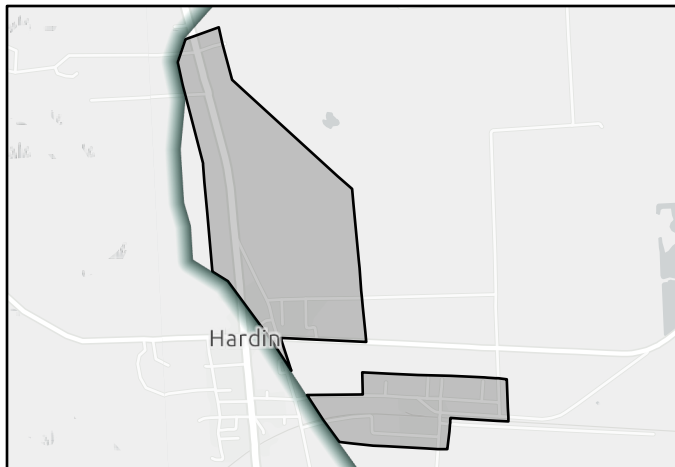
## Impacts

Negative impacts? No Negative impacts description -

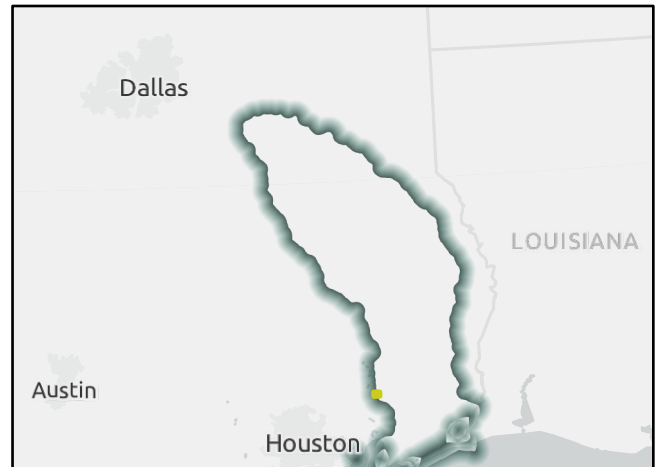
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$10,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Nacogdoches Stormwater Drainage Fee Implementation

ID# 052000082 Sponsor Nacogdoches (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Nacogdoches  
 Strategy description Implement stormwater drainage fee to assist funding of flood mitigation infrastructure projects

- Goal 1: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 50% of communities.  
 Goal(s) Goal 2: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 75% of communities.  
 Goal 3: 50% of the region's population is part of an entity that has a dedicated drainage charge, fee, or other continuous funding mechanism for the maintenance and/or restoration of flood infrastructure.

## Existing 100-Year Flood Risk

Population at risk 5,331 # of structures 446 Critical facilities 1  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 4 Roadway(s) impacted (miles) 14  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

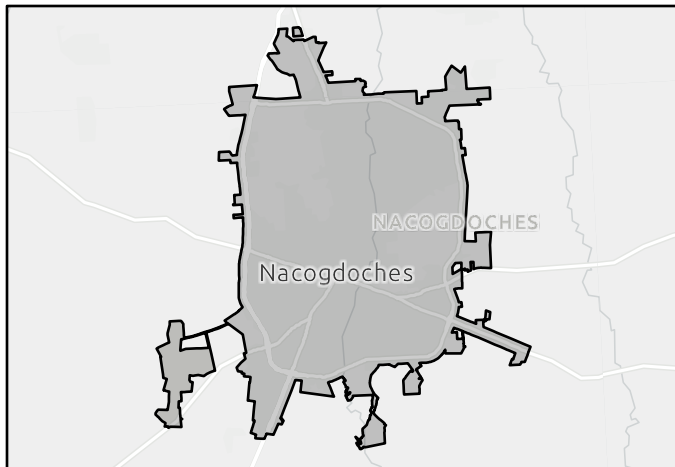
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

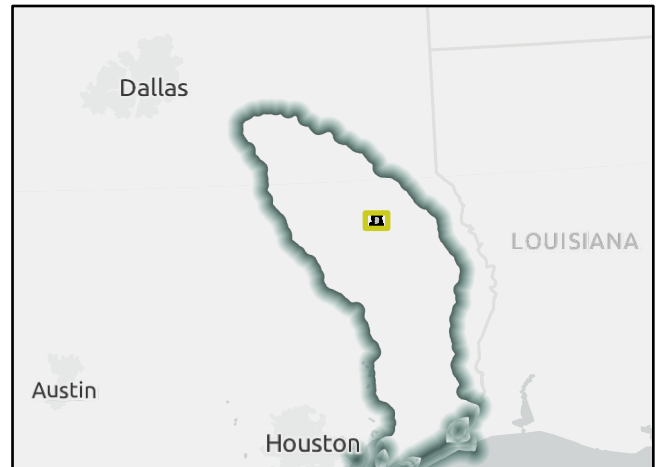
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$40,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title City of Nacogdoches Codes and Ordinances Update

ID# 052000083 Sponsor Nacogdoches (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Nacogdoches

Strategy description Review and update, if necessary, all City codes and ordinances pertaining to floodplain management to ensure their compliance with state and federal laws and to achieve cohesion with the mitigation strategies contained herein.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 5,331 # of structures 446 Critical facilities 1

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 4 Roadway(s) impacted (miles) 14

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

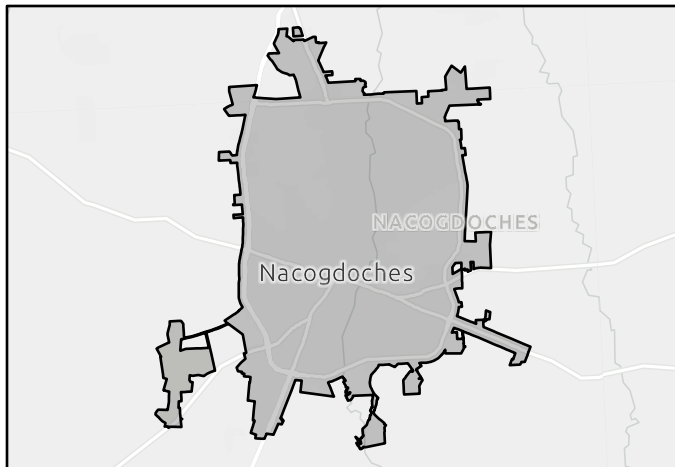
## Impacts

Negative impacts? No Negative impacts description -

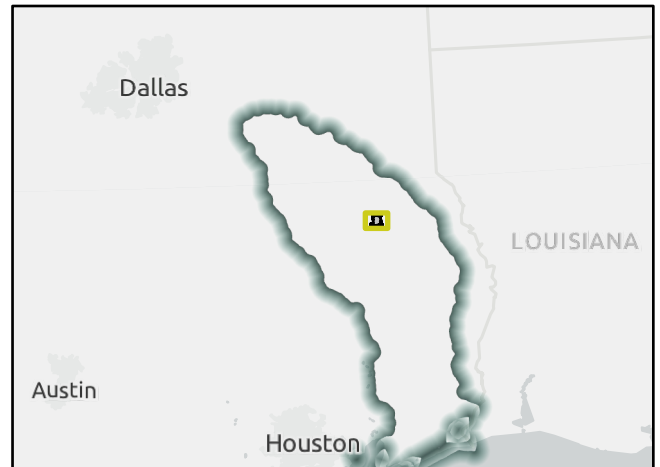
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$30,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title OCDD Drainage Criteria Manual and Regulations Enforcement

ID# 052000084 Sponsor Orange County Drainage District

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Orange

Strategy description Implement and enforce the Drainage Criteria Manual and Regulations for regulation of the effects of new developments and stormwater runoff.

Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 11,929 # of structures 5,007 Critical facilities 36

Flood risk type: Riverine? Yes Coastal? Yes Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 346 Roadway(s) impacted (miles) 136

Number of low water crossings 20 Historical road closures 20

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

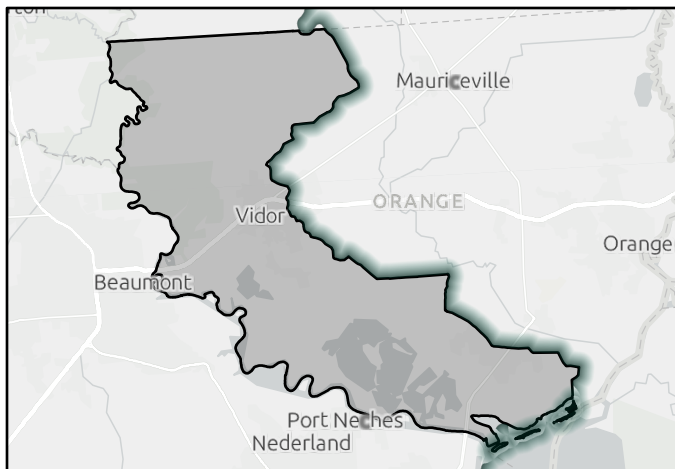
## Impacts

Negative impacts? No Negative impacts description -

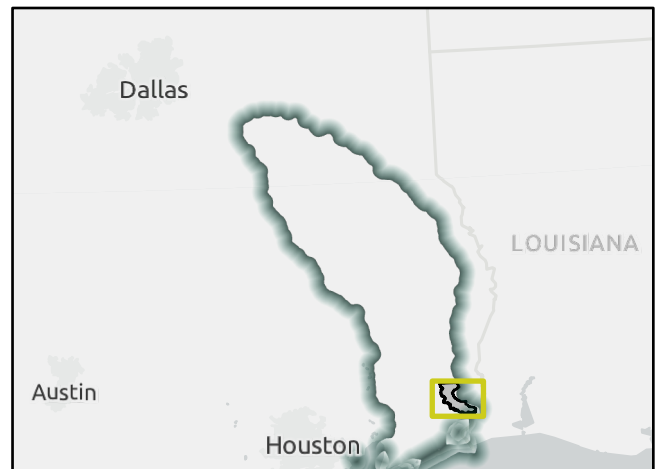
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$20,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title OCDD Support/Create Stricter Floodplain Ordinances

ID# 052000085 Sponsor Orange County Drainage District

RFPG recommend?  Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Orange

Strategy description Work with Communities to support ordinances or create ordinances that help to protect new structures from being built in the floodplain or floodway

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 11,929 # of structures 5,007 Critical facilities 36

Flood risk type: Riverine?  Yes Coastal?  Yes Local?  No Playa?  No Other?  Yes

Farm/Ranch land impacted (acres) 346 Roadway(s) impacted (miles) 136

Number of low water crossings 20 Historical road closures 20

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

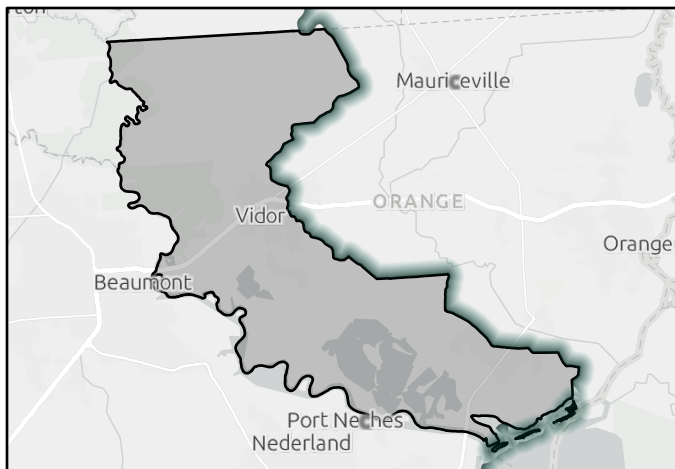
## Impacts

Negative impacts?  No Negative impacts description -

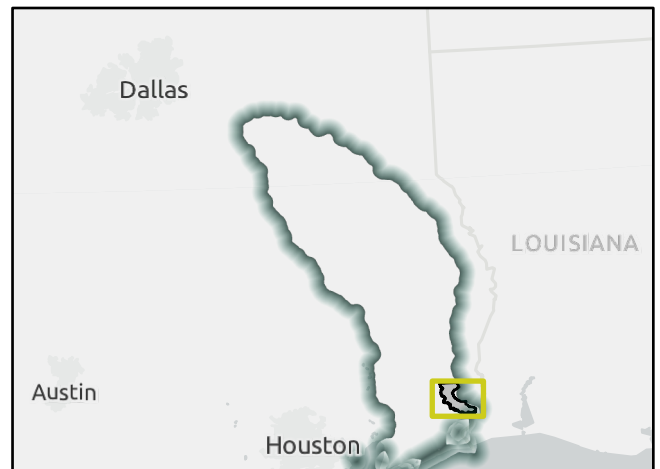
Water supply contributions?  No Water supply contribution description -

## Estimated Cost

Strategy Cost \$40,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title San Augustine County Continue NFIP Participation

ID# 052000086 Sponsor San Augustine (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County San Augustine  
 Strategy description Continue participation in the National Flood Insurance Program (NFIP) and expand administration and monitoring capabilities

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 146 # of structures 64 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 42 Roadway(s) impacted (miles) 13  
 Number of low water crossings 2 Historical road closures 2

## 100-Year Flood Risk Reduction

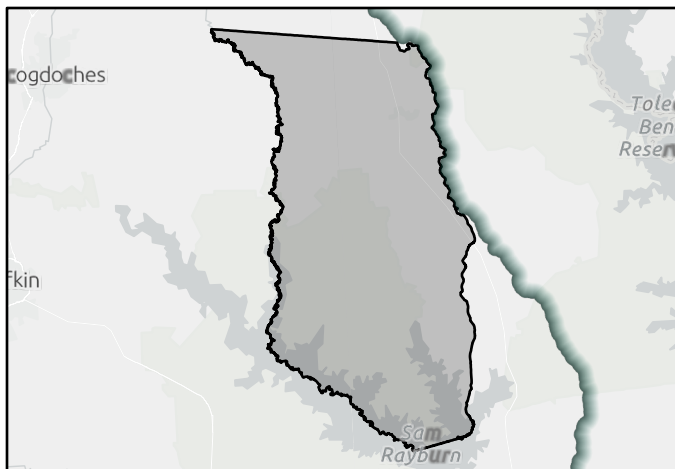
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$53,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Lindale Natural Runoff Policies Implementation

ID# 052000087 Sponsor Lindale (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Smith

Strategy description Incorporate "natural run-off" policies. Calculate cumulative effect of development, increase capacity of storm water drainage systems, institute regular drain system maintenance.

Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.

## Existing 100-Year Flood Risk

Population at risk 69 # of structures 17 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

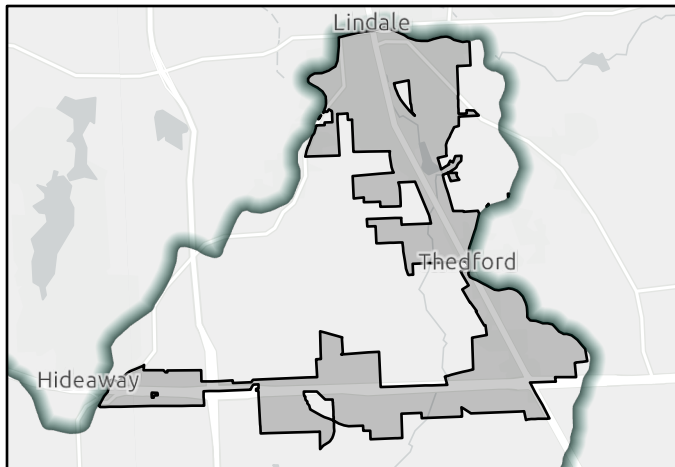
## Impacts

Negative impacts? No Negative impacts description -

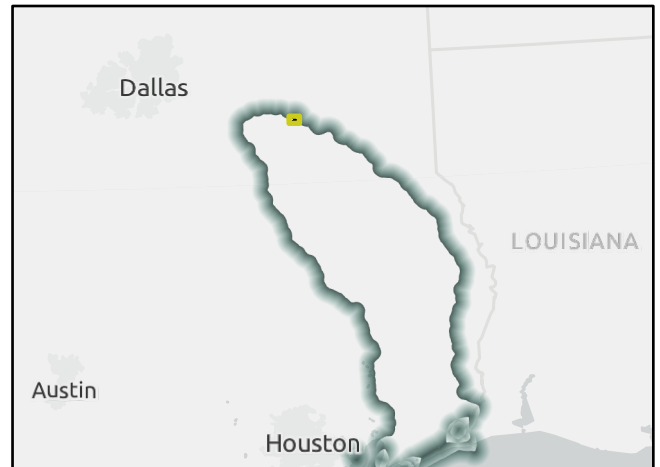
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$30,000 Amount of available funding - % Nature-Based 100



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title City of Lindale No Adverse Impact Implementation

ID# 052000088 Sponsor Lindale (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Smith

Strategy description Incorporate "no adverse impact" design requirements in community development. Provide awareness to stakeholders and design engineers; building code adoption and plan approval process.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: 100% of counties to perform public education and awareness campaigns to better inform the public of flood-related risks on an annual basis.

## Existing 100-Year Flood Risk

Population at risk	69	# of structures	17	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	1	Roadway(s) impacted (miles)	0		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

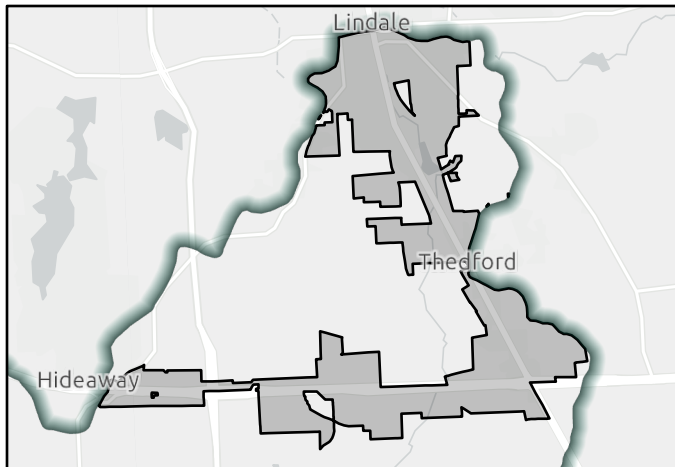
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

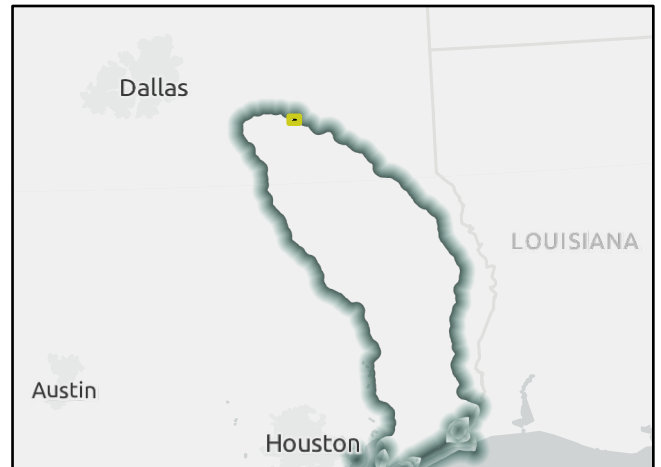
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$60,000	Amount of available funding	-	% Nature-Based	0
---------------	----------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Troup Floodplain Ordinance Update

ID# 052000089 Sponsor Troup (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Smith

Strategy description Adopt and enforce a stricter floodplain ordinance that no new structures are allowed in the 100-year floodway. Adopted by City Council action.

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	17	# of structures	1	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (miles)	0		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

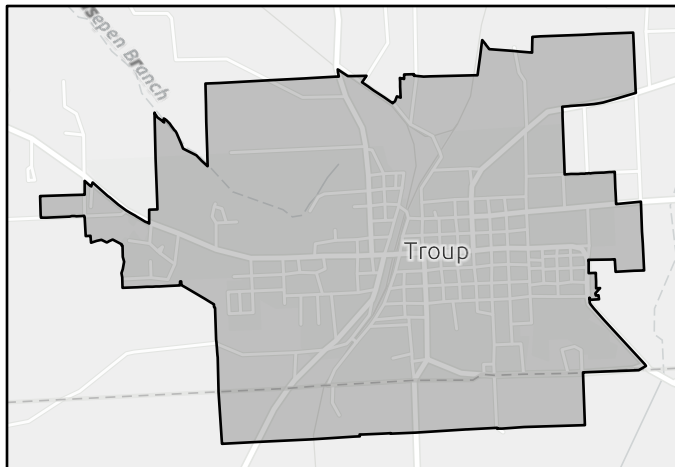
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$40,000	Amount of available funding	-	% Nature-Based	0
---------------	----------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title Trinity County Dam/Levee Failure Data Collection

ID# 052000090 Sponsor Trinity (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Regulatory and Guidance County Trinity  
 Strategy description Develop and implement standard operating procedures for collecting and sharing data to provide extent of dam/levee failure

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.  
 Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 15 # of structures 32 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 68 Roadway(s) impacted (miles) 22  
 Number of low water crossings 1 Historical road closures 1

## 100-Year Flood Risk Reduction

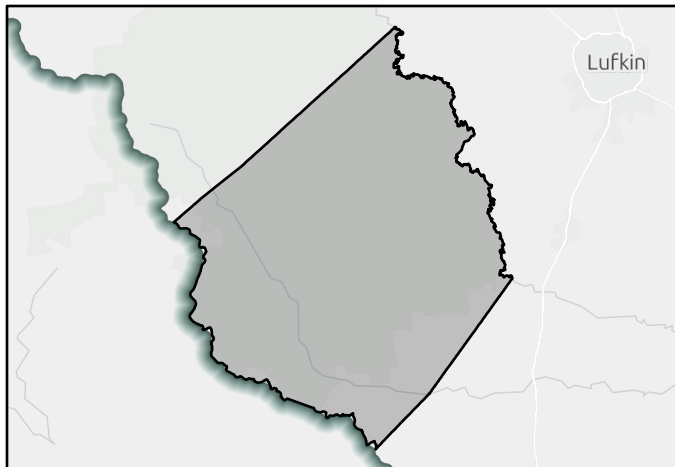
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

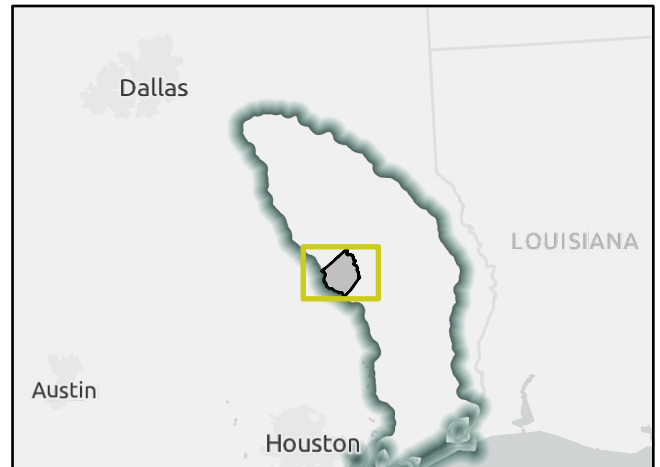
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$30,600 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.
- Goal(s) Goal 2: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 25% of their new flood risk reduction projects between 2033 - 2053.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	<input type="text" value="233"/>	# of structures	<input type="text" value="217"/>	Critical facilities	<input type="text" value="0"/>
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> No	Local? <input checked="" type="checkbox"/> Yes	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> Yes
Farm/Ranch land impacted (acres)	<input type="text" value="232"/>	Roadway(s) impacted (miles)	<input type="text" value="13"/>		
Number of low water crossings	<input type="text" value="0"/>	Historical road closures	<input type="text" value="0"/>		

## 100-Year Flood Risk Reduction

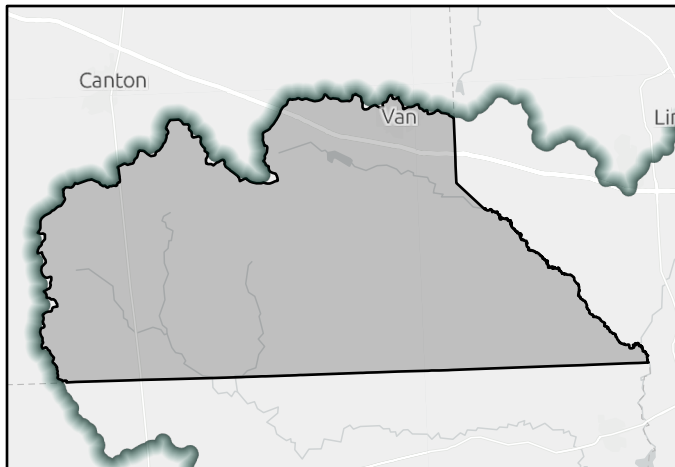
Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

## Impacts

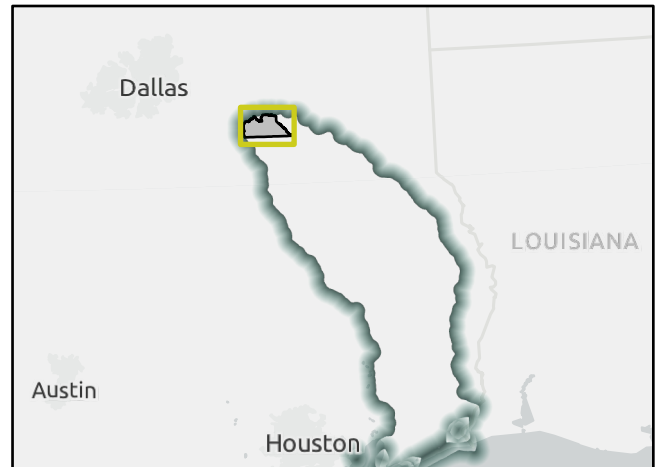
Negative impacts?	<input type="checkbox"/> No	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	<input type="text" value="-"/>

## Estimated Cost

Strategy Cost	<input type="text" value="\$30,000"/>	Amount of available funding	<input type="text" value="-"/>	% Nature-Based	<input type="text" value="0"/>
---------------	---------------------------------------	-----------------------------	--------------------------------	----------------	--------------------------------



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title Anderson County Culvert Improvements

ID# 052000092 Sponsor Anderson (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Anderson

Strategy description Widen culverts to mitigate against future drainage issues that lead to flooding.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 73 # of structures 69 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 348 Roadway(s) impacted (miles) 22

Number of low water crossings 2 Historical road closures 2

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

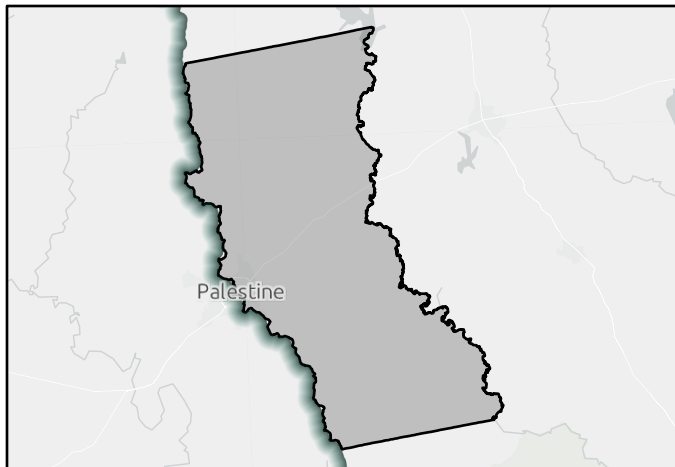
## Impacts

Negative impacts? No Negative impacts description -

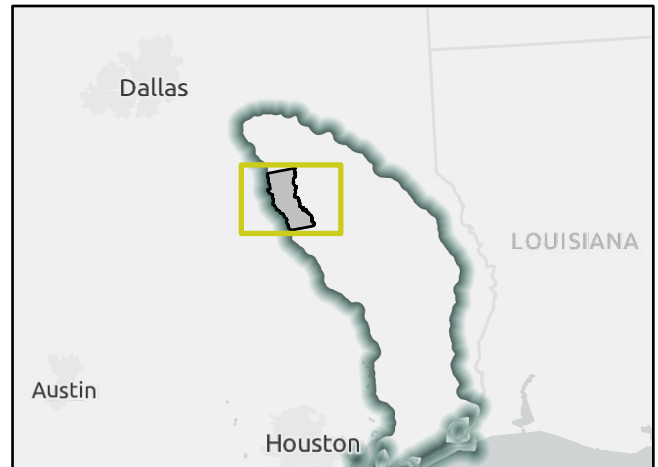
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$3,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 50% of communities.

Goal(s) Goal 2: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 75% of communities.

Goal 3: 50% of the region's population is part of an entity that has a dedicated drainage charge, fee, or other continuous funding mechanism for the maintenance and/or restoration of flood infrastructure.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  No

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

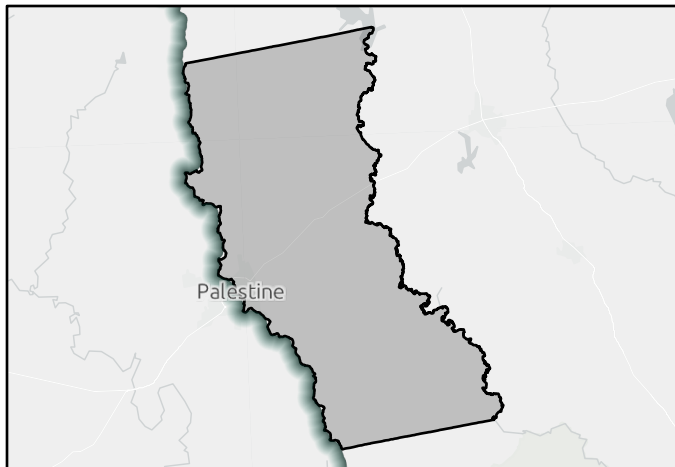
## Impacts

Negative impacts?  No Negative impacts description

Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Frankston Culvert Improvements

ID# 052000094 Sponsor Frankston (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Anderson

Strategy description Develop plan to increase drainage capacity in sites that are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 0 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

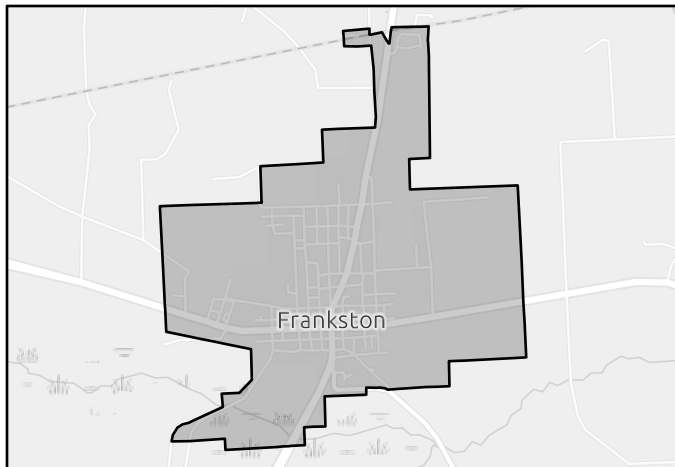
## Impacts

Negative impacts? No Negative impacts description -

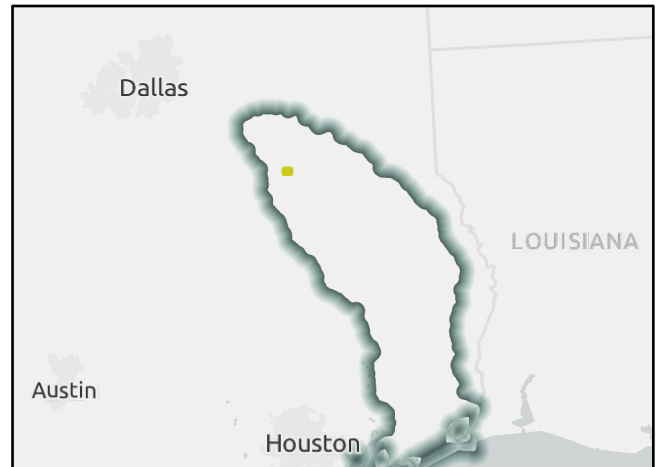
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Palestine Drainage System Expansion and Maintenance

ID# 052000095 Sponsor Palestine (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Anderson

Strategy description Establish plan and necessary standards to increase the capacity of drainage ditches along all city streets and roads

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	42	# of structures	14	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	2	Roadway(s) impacted (miles)	2		
Number of low water crossings	2	Historical road closures	2		

## 100-Year Flood Risk Reduction

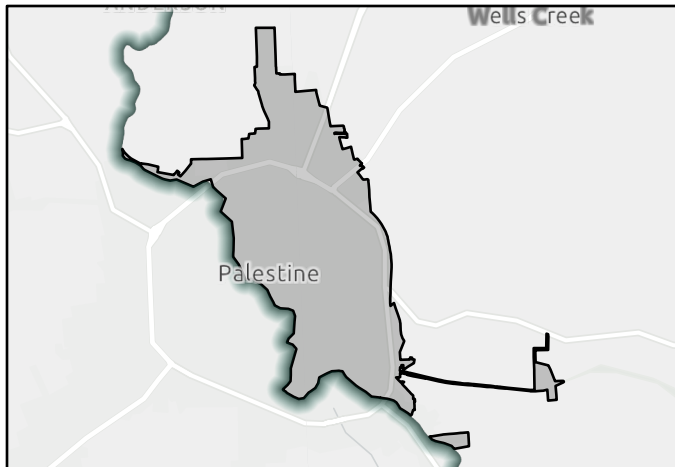
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

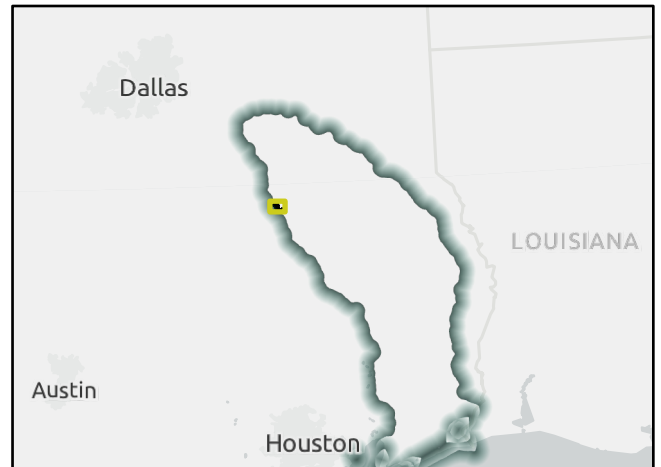
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$2,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title Angelina County Culvert Improvements

ID# 052000096 Sponsor Angelina (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Angelina

Strategy description Develop plan to upgrade major culvert areas which are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	8,420	# of structures	1,201	Critical facilities	11
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> No	Local? <input checked="" type="checkbox"/> Yes	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> Yes
Farm/Ranch land impacted (acres)	165	Roadway(s) impacted (miles)	66		
Number of low water crossings	19	Historical road closures	19		

## 100-Year Flood Risk Reduction

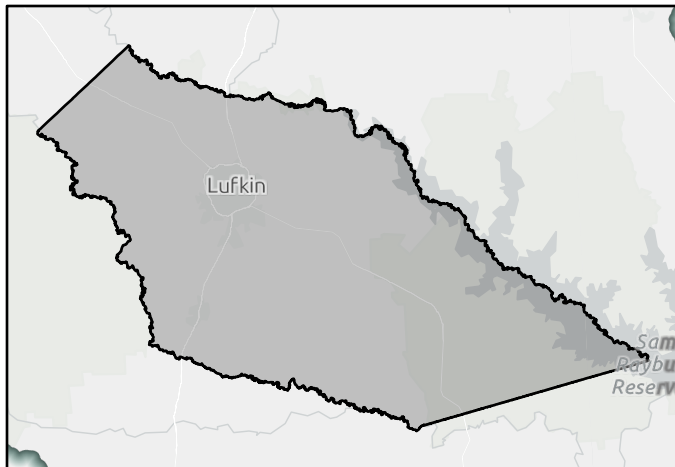
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	<input type="checkbox"/> No	Negative impacts description	-
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$2,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Burke Drainage Ditch Capacity Upgrades

ID# 052000097 Sponsor Burke (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Angelina

Strategy description Establish a plan and necessary standards to increase the capacity of drainage ditches along all city streets and roads

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 1 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

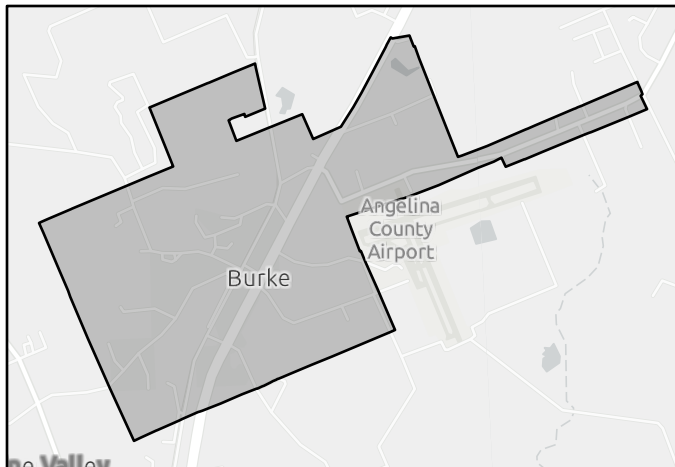
## Impacts

Negative impacts? No Negative impacts description -

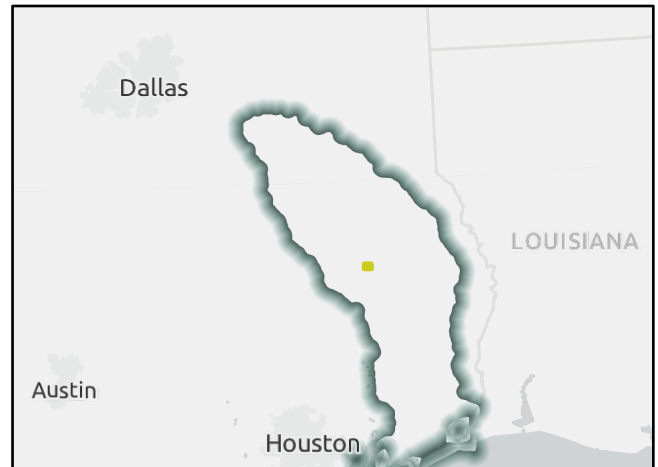
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$500,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title Chambers County Property Protection

ID# 052000098 Sponsor Chambers (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Chambers  
 Strategy description Project will clear obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding throughout all participating jurisdictions

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 1,431 # of structures 1,175 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? Yes Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 36,933 Roadway(s) impacted (miles) 162  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

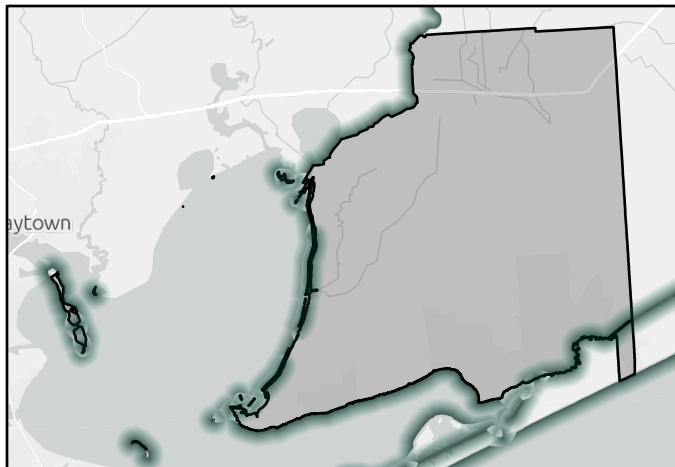
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

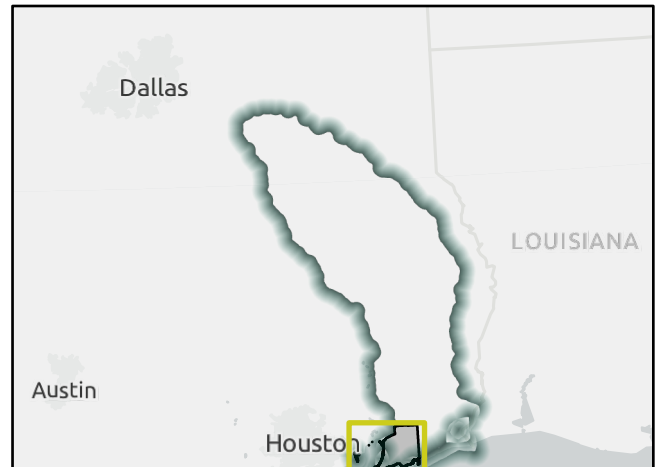
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title Cherokee County Culvert Upgrades

ID# 052000099 Sponsor Cherokee (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Cherokee  
 Strategy description Develop plan to upgrade major culvert areas which are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 1,382 # of structures 672 Critical facilities 1  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 920 Roadway(s) impacted (miles) 49  
 Number of low water crossings 10 Historical road closures 10

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

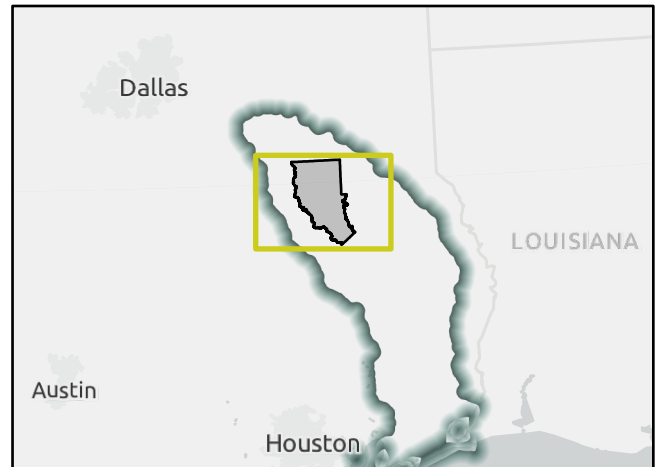
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$2,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Alto Culvert Improvements

ID# 052000100 Sponsor Alto (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Cherokee

Strategy description Develop plan to increase drainage capacity in sites that are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	2	# of structures	11	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (miles)	0		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

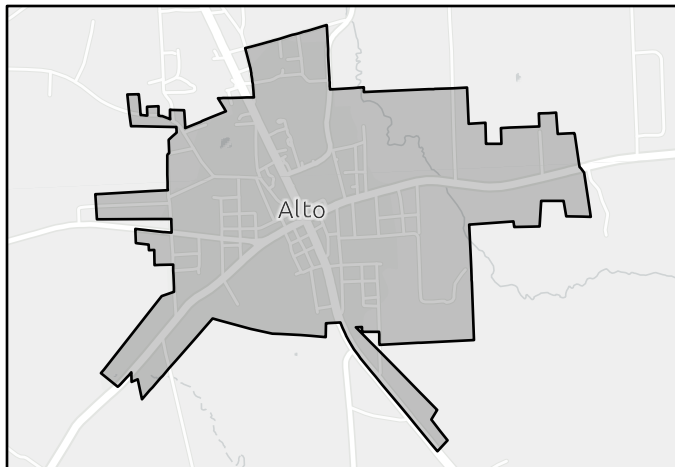
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$1,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Reklaw Drainage System Upgrades

ID# 052000101 Sponsor Reklaw (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Cherokee

Strategy description Establish plan to increase drainage capacity in sites that are prone to flooding.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 1 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

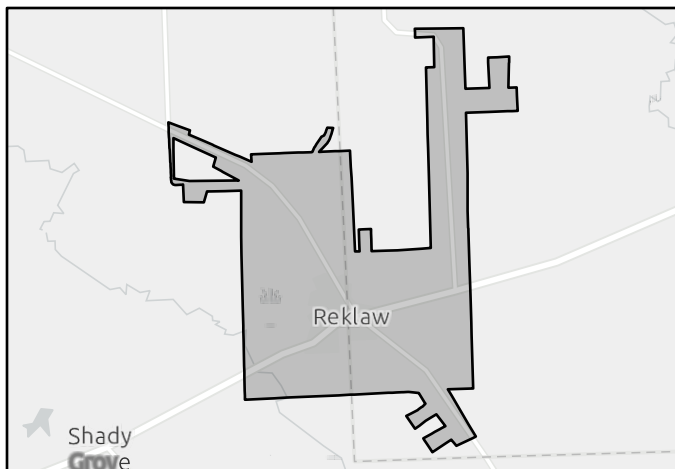
## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Rusk Culvert Improvements

ID# 052000102 Sponsor Rusk (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Cherokee

Strategy description Establish plan to increase drainage capacity in sites that are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk	462	# of structures	41	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	1	Roadway(s) impacted (miles)	2		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

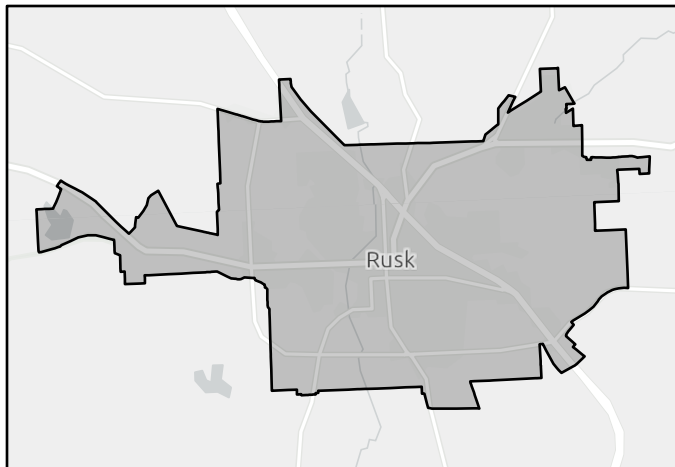
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$1,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Wells Culvert Improvements

ID# 052000103 Sponsor Wells (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Cherokee

Strategy description Establish plan to increase drainage capacity in sites that are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 1 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

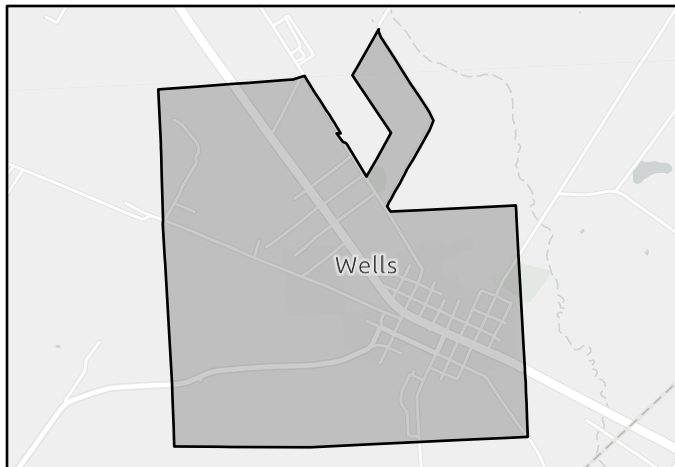
## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Coastal?  Local?  Playa?  Other?

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

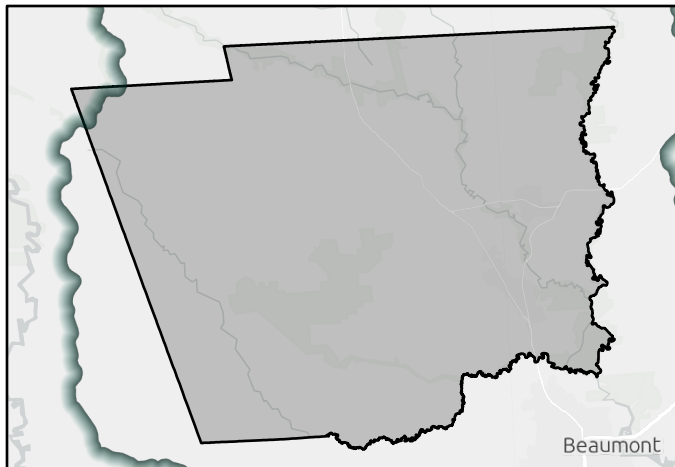
## Impacts

Negative impacts?  Negative impacts description

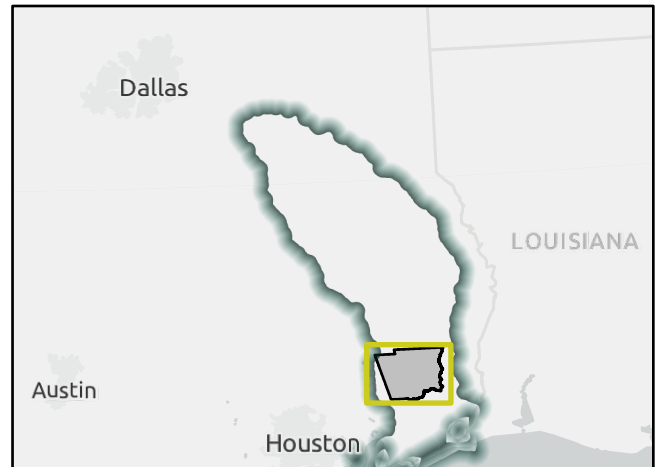
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Coastal?  Local?  Playa?  Other?

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

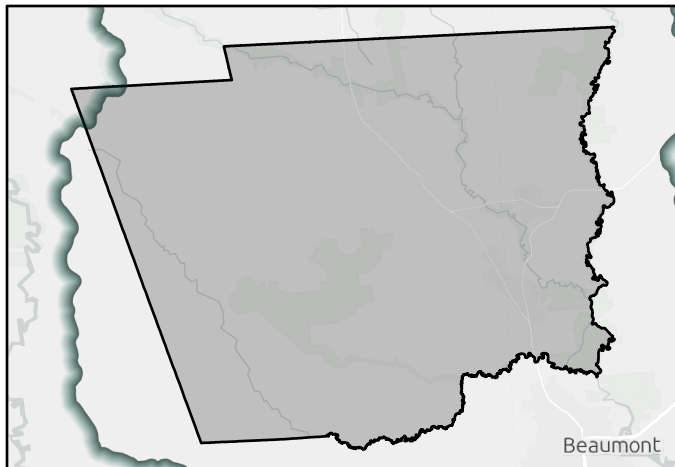
## Impacts

Negative impacts?  Negative impacts description

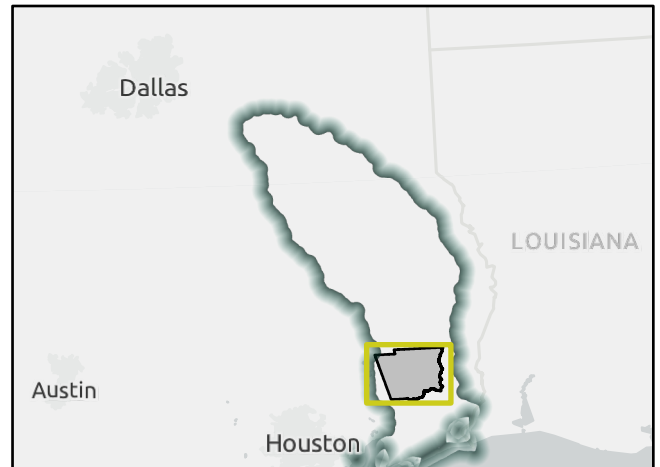
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal(s)
- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
  - Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
  - Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
  - Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Coastal?  Local?  Playa?  Other?

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

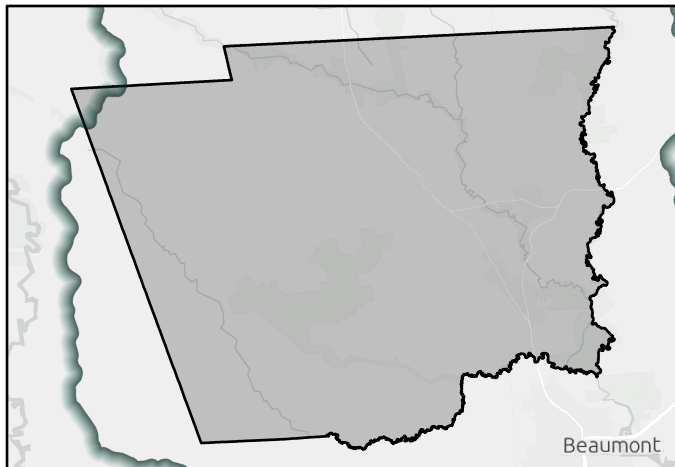
## Impacts

Negative impacts?  Negative impacts description

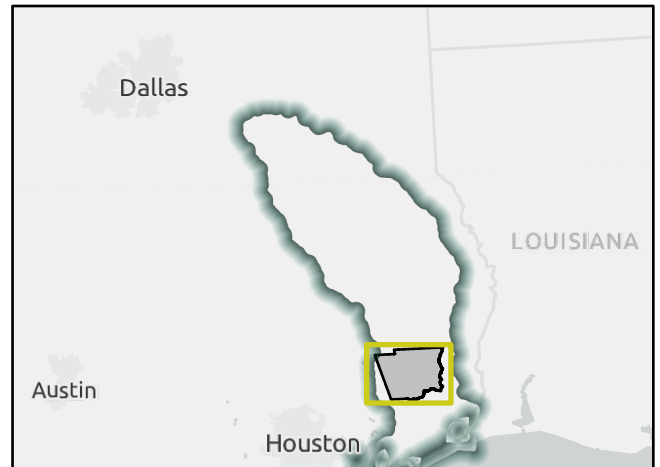
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title City of Kountze Culverts and Ditches

ID# 052000107 Sponsor Kountze (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin

Strategy description Develop plan to increase drainage capacity in sites that are prone to flooding.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 2 # of structures 3 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 1

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

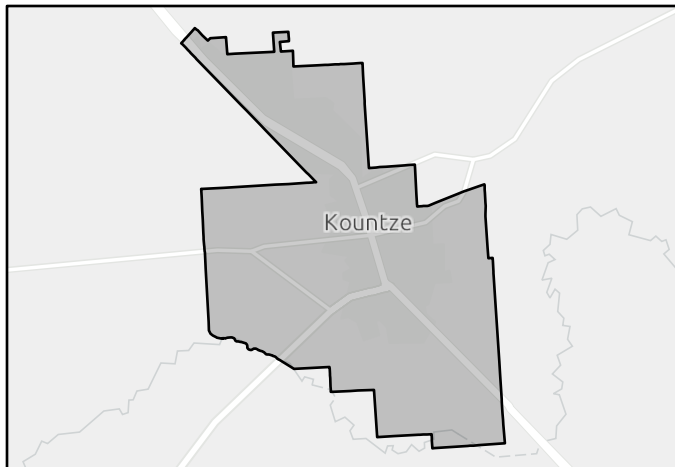
## Impacts

Negative impacts? No Negative impacts description -

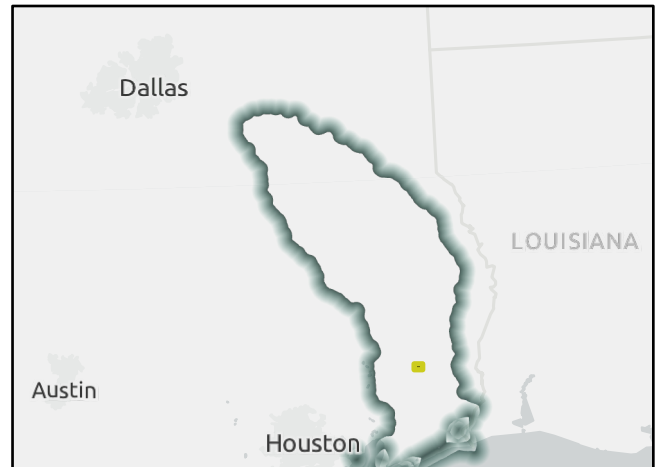
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$3,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Kountze Elevate Roads and Bridges

ID# 052000108 Sponsor Kountze (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin

Strategy description Develop a program to elevate roads and bridges including installing, upsizing culverts and headwalls, and bridge upgrades.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk	2	# of structures	3	Critical facilities	0
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> No	Local? <input type="checkbox"/> No	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> Yes
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (miles)	1		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

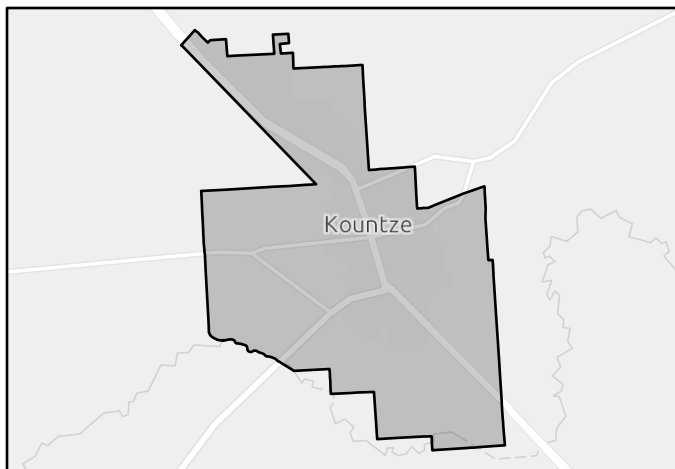
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	<input type="checkbox"/> No	Negative impacts description	-
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$2,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title City of Kountze General Drainage Improvements

ID# 052000109 Sponsor Kountze (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin  
 Strategy description Increase drainage capacity; add stormwater detention basins and stormwater pumping stations where gravity flow is not feasible.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.  
 Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 2 # of structures 3 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 1  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

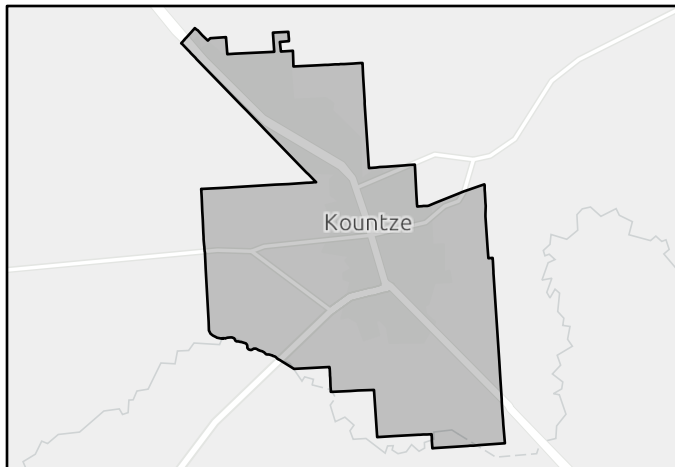
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

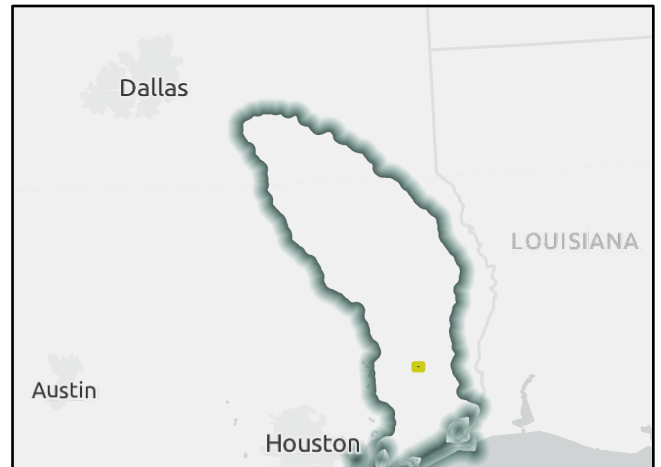
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,500,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Lumberton Culverts, Ditches, and Channels

ID# 052000110 Sponsor Lumberton (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin

Strategy description Develop plan to increase drainage capacity in sites that are prone to flooding.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 658 # of structures 235 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 23 Roadway(s) impacted (miles) 4

Number of low water crossings 1 Historical road closures 1

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

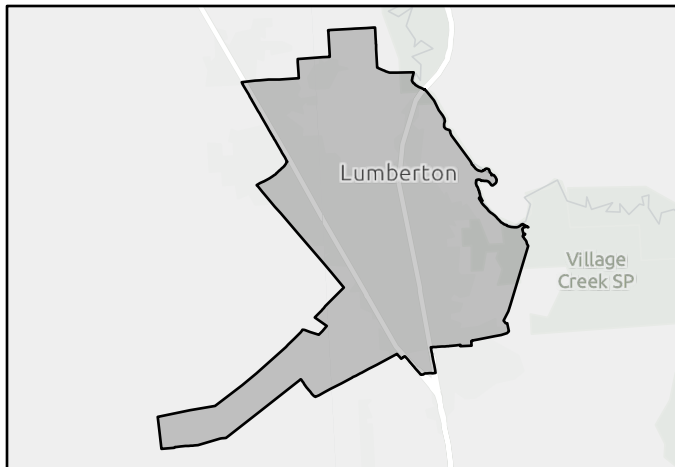
## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$3,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Rose Hill Acres Flood Control Improvements

ID# 052000111 Sponsor Rose Hill Acres (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin

Strategy description Develop a program to upgrade flood control structures (barriers, berms) for the purpose of protecting critical facilities, potable water sources, and agricultural resources from water contamination and saltwater intrusion.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 278 # of structures 134 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 2

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

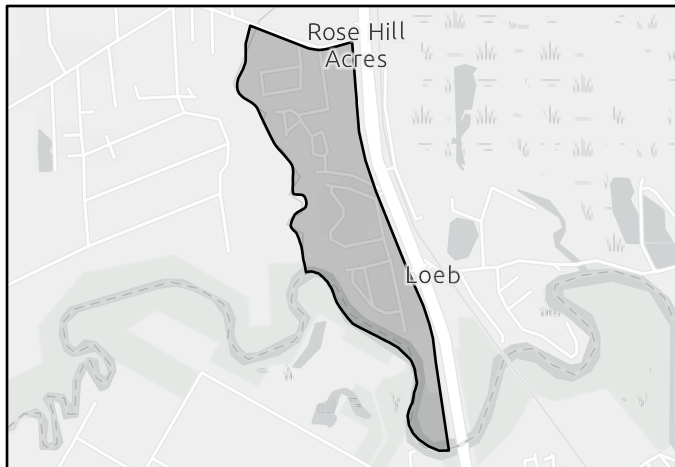
## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$3,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Rose Hill Acres General Drainage Improvements

ID# 052000112 Sponsor Rose Hill Acres (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin  
 Strategy description Establish criteria to increase drainage capacity; add stormwater detention basins, box culverts and/or pipes to increase drainage capacity.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.  
 Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 278 # of structures 134 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No  
 Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 2  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

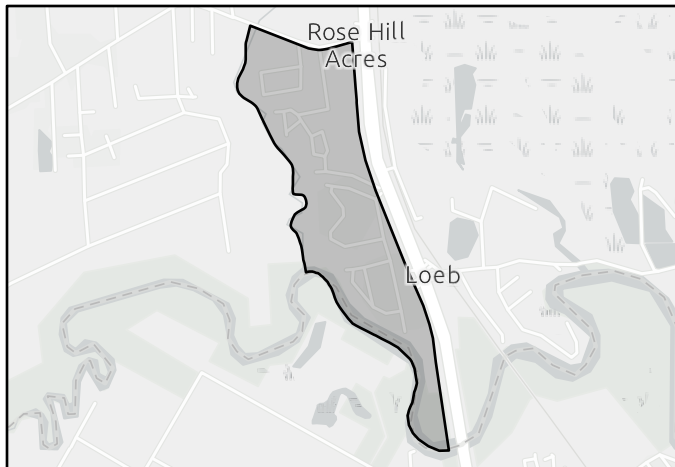
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

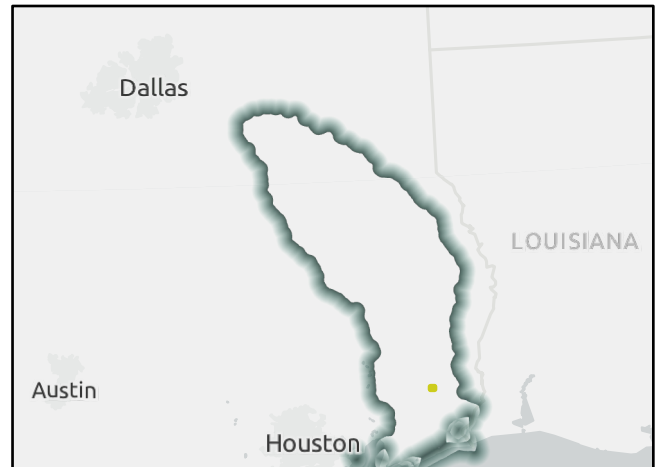
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$400,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Silsbee Detention, Culverts, Ditches and Channels

ID# 052000113 Sponsor Silsbee (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin  
 Strategy description Develop plan to increase drainage capacity in sites that are prone to flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.  
 Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.  
 Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

## Existing 100-Year Flood Risk

Population at risk 780 # of structures 87 Critical facilities 2  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 2  
 Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

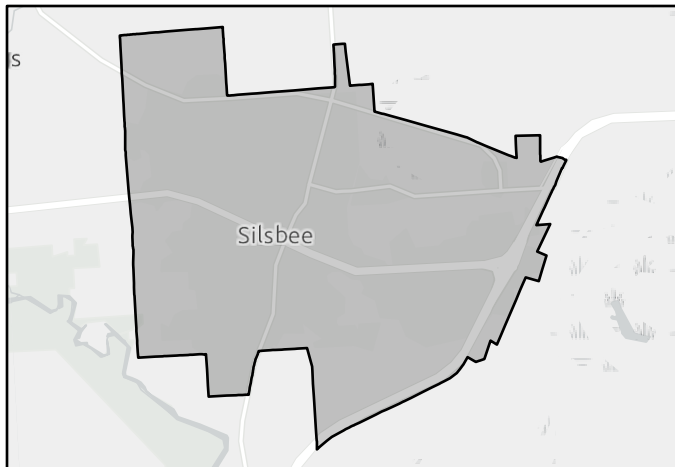
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,500,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Silsbee Drainage Ditches

ID# 052000114 Sponsor Silsbee (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin  
 Strategy description Develop a program to upgrade drainage ditches and explore converting necessary ditches into curb / sewer construction.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

## Existing 100-Year Flood Risk

Population at risk 780 # of structures 87 Critical facilities 2  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 2  
 Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

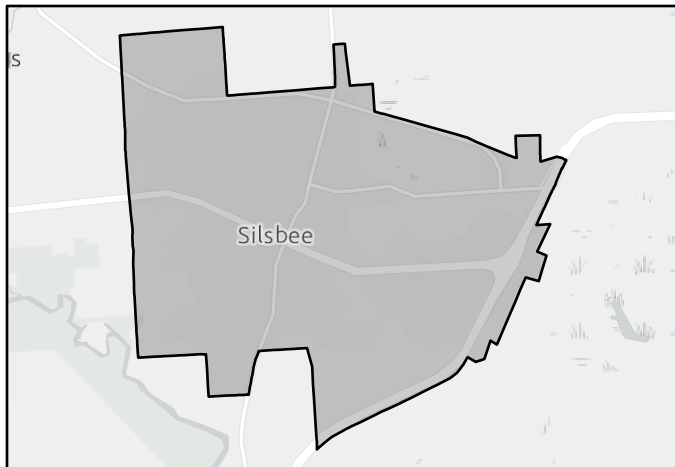
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

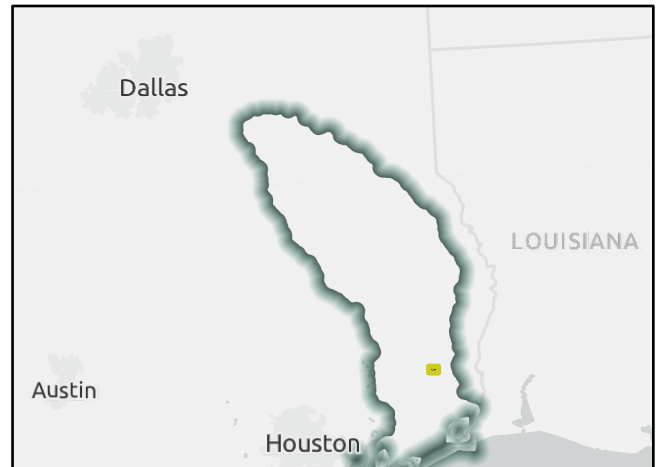
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title City of Silsbee Flood Mitigation for Hendrix Development

ID# 052000115 Sponsor Silsbee (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin

Strategy description Explore, plan, and implement flood mitigation strategies within the Hendrix Development.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

## Existing 100-Year Flood Risk

Population at risk	780	# of structures	87	Critical facilities	2
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> No	Local? <input type="checkbox"/> No	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> Yes
Farm/Ranch land impacted (acres)	1	Roadway(s) impacted (miles)	2		
Number of low water crossings	3	Historical road closures	3		

## 100-Year Flood Risk Reduction

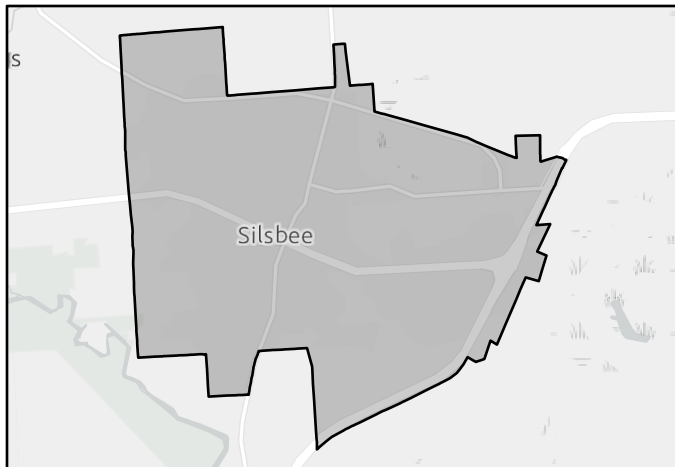
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

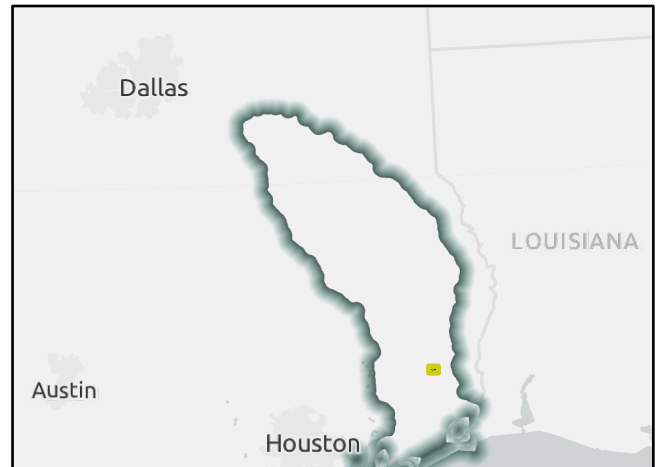
Negative impacts?	<input type="checkbox"/> No	Negative impacts description	-
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$5,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Sour Lake Channel Improvements

ID# 052000116 Sponsor Sour Lake (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin  
 Strategy description Establish criteria and standards for installing large concrete channels, box culvert, concrete pipe, and/or mechanisms as needed to mitigate drainage ditch erosion and improve water capacity and conveyance.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

## Existing 100-Year Flood Risk

Population at risk 1,687 # of structures 435 Critical facilities 7  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 7 Roadway(s) impacted (miles) 8  
 Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

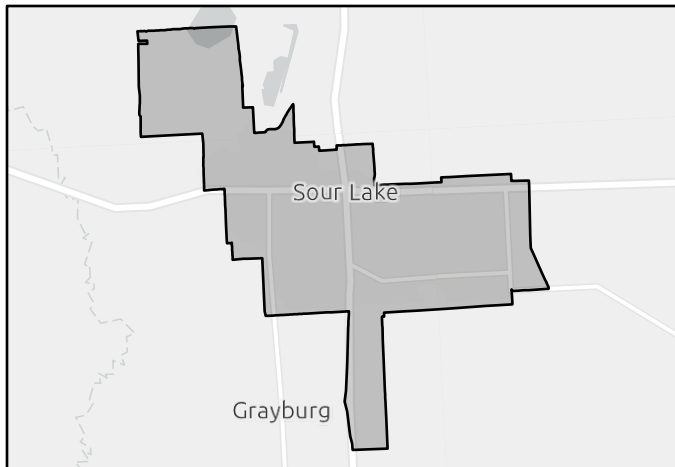
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

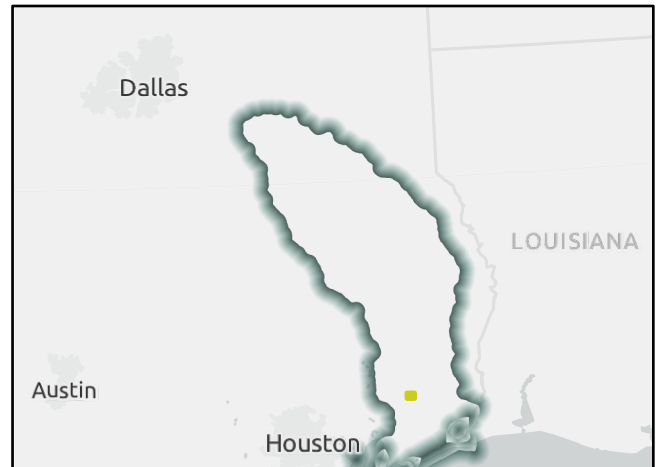
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$500,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Sour Lake Drainage Outfalls

ID# 052000117 Sponsor Sour Lake (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin  
 Strategy description Advance a plan to rectify, enlarge, and maintain outfall channels for the City of Sour Lake, including excavating interior roadside ditches.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

## Existing 100-Year Flood Risk

Population at risk 1,687 # of structures 435 Critical facilities 7  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 7 Roadway(s) impacted (miles) 8  
 Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

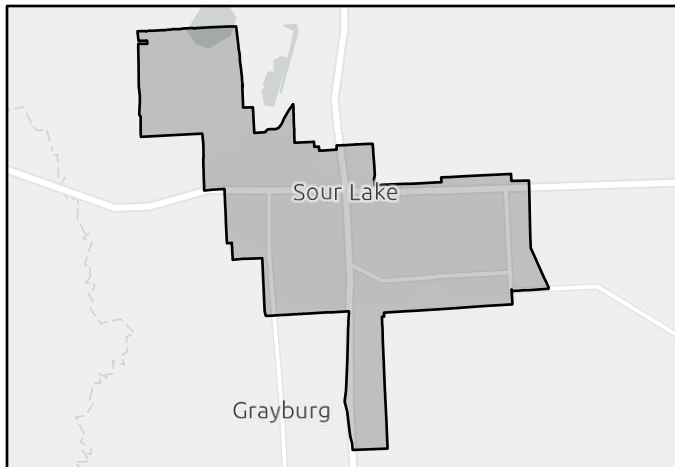
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Sour Lake Stormwater Detention

ID# 052000118 Sponsor Sour Lake (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Hardin  
 Strategy description Establish criteria and standards to construct water retention ponds to collect stormwater run-off and reduce flooding.

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

## Existing 100-Year Flood Risk

Population at risk 1,687 # of structures 435 Critical facilities 7  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 7 Roadway(s) impacted (miles) 8  
 Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

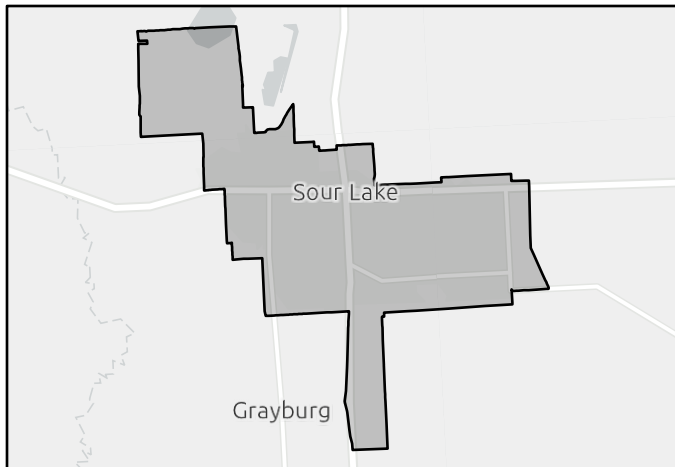
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

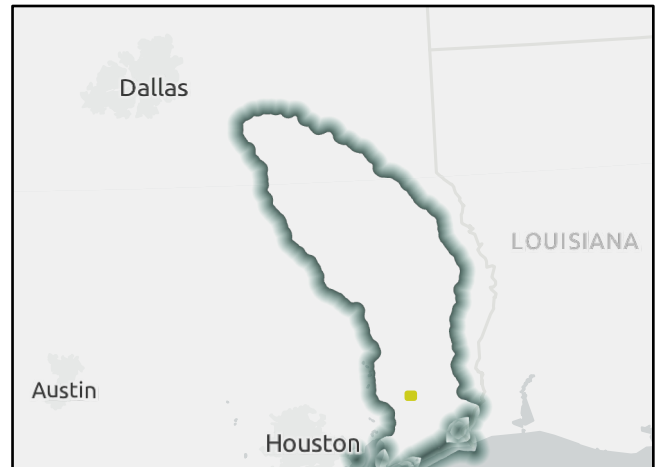
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$7,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Coastal?  Local?  Playa?  Other?

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

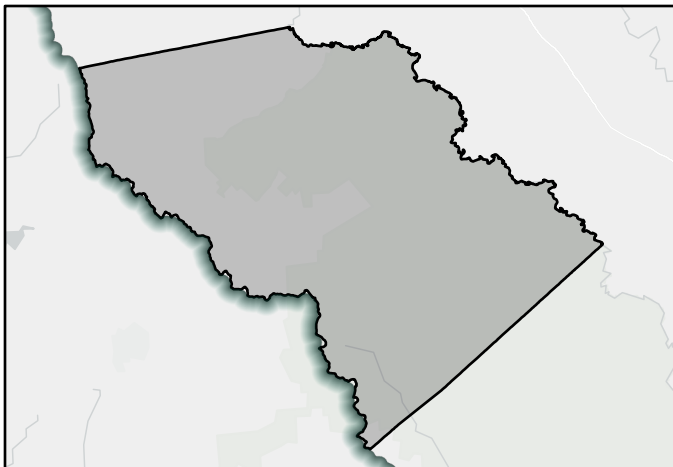
## Impacts

Negative impacts?  Negative impacts description

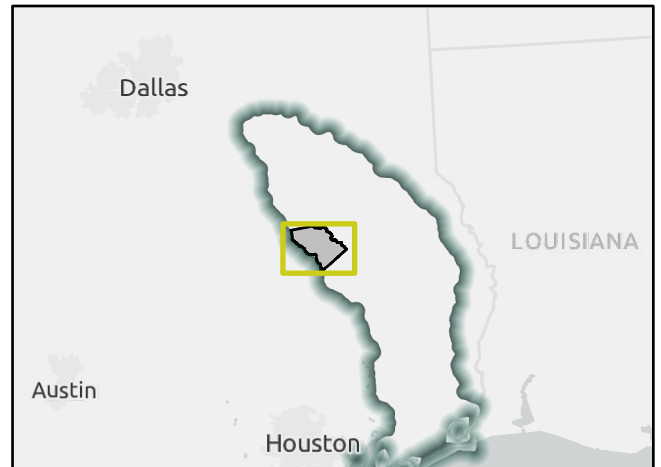
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.
- Goal 3: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 50% of communities.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Coastal?  Local?  Playa?  Other?

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

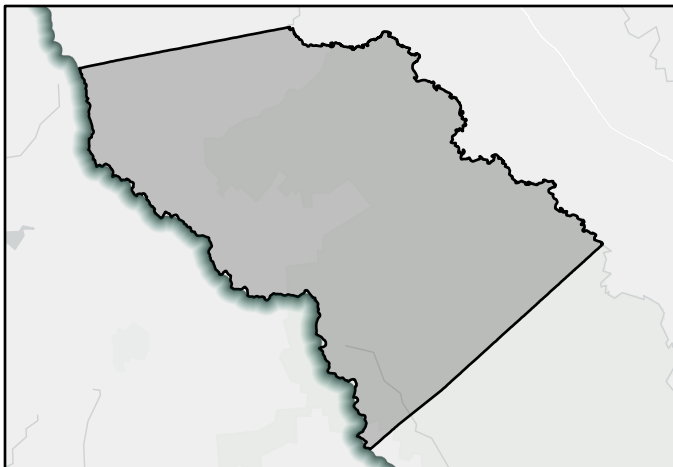
## Impacts

Negative impacts?  Negative impacts description

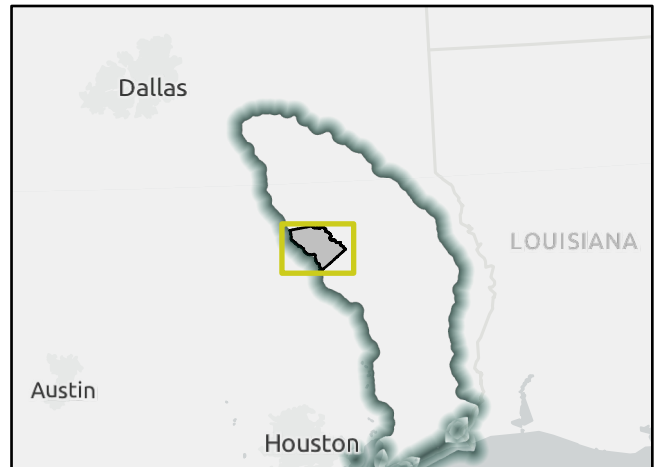
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Grapeland Critical Facilities Flood-Proofing

ID# 052000121 Sponsor Houston (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Houston

Strategy description Flood proof critical facilities to the 500-year flood that are located in flood-prone areas of the city.

- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
- Goal(s) Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk	16	# of structures	17	Critical facilities	0
Flood risk type:	Riverine? <input checked="" type="checkbox"/> Yes	Coastal? <input type="checkbox"/> No	Local? <input checked="" type="checkbox"/> Yes	Playa? <input type="checkbox"/> No	Other? <input type="checkbox"/> Yes
Farm/Ranch land impacted (acres)	117	Roadway(s) impacted (miles)	20		
Number of low water crossings	7	Historical road closures	7		

## 100-Year Flood Risk Reduction

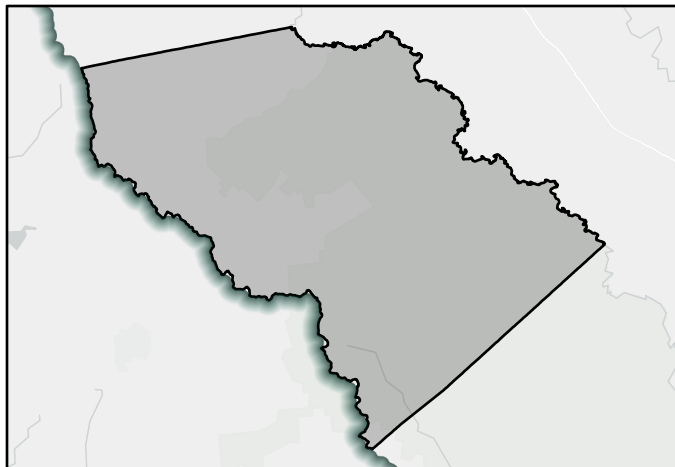
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

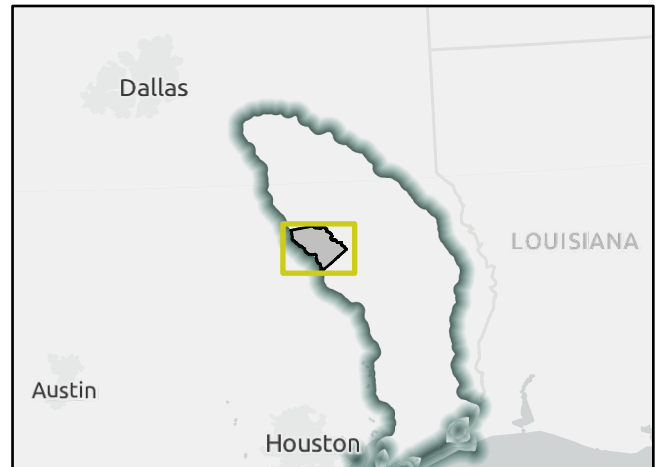
Negative impacts?	<input type="checkbox"/> No	Negative impacts description	-
Water supply contributions?	<input type="checkbox"/> No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$1,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title City of Kennard Ditch Maintenance Program

ID# 052000122 Sponsor Kennard (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

## Strategy Details

Strategy type Infrastructure Projects County Houston  
 Strategy description Implement program to routinely remove debris from drainage ways and roadside ditches to prevent back up of flood velocity and improve conveyance of stream during flood events.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.  
 Goal 3: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 50% of communities.

## Existing 100-Year Flood Risk

Population at risk 16 # of structures 17 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 117 Roadway(s) impacted (miles) 20  
 Number of low water crossings 7 Historical road closures 7

## 100-Year Flood Risk Reduction

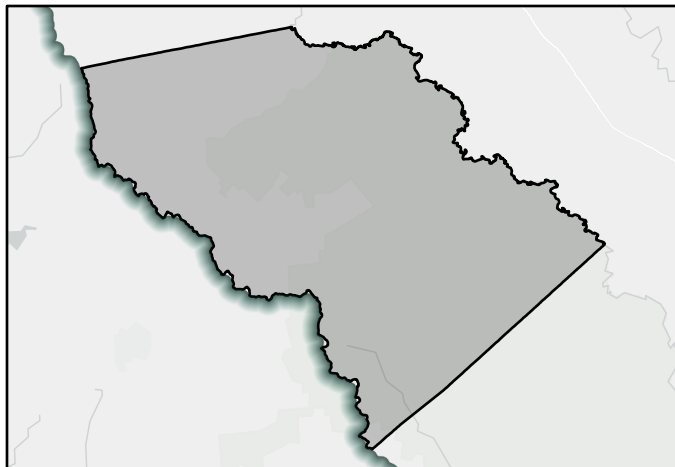
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  No Playa?  No Other?  Yes

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

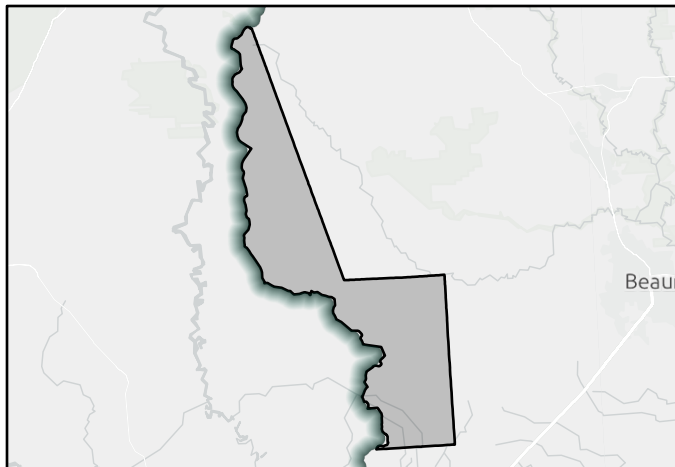
## Impacts

Negative impacts?  No Negative impacts description

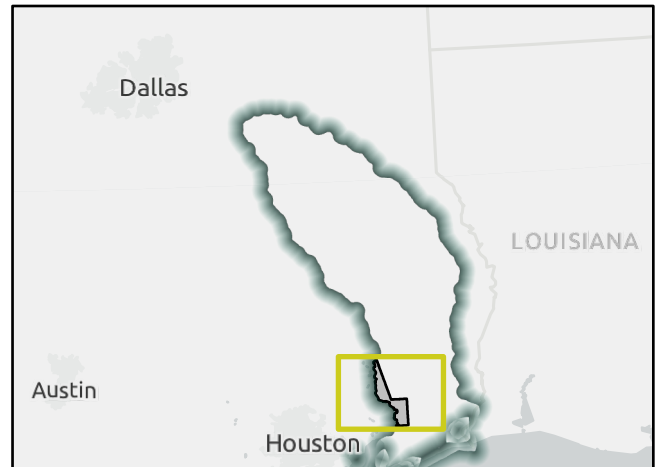
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Daisetta Culvert Maintenance and Upgrades

ID# 052000124 Sponsor Daisetta (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Liberty  
 Strategy description Removal of debris, silt and vegetation obstacles in drainage ways. Project will clear obstacles, mow and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.  
 Goal 3: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 50% of communities.

## Existing 100-Year Flood Risk

Population at risk 0 # of structures 0 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes  
 Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

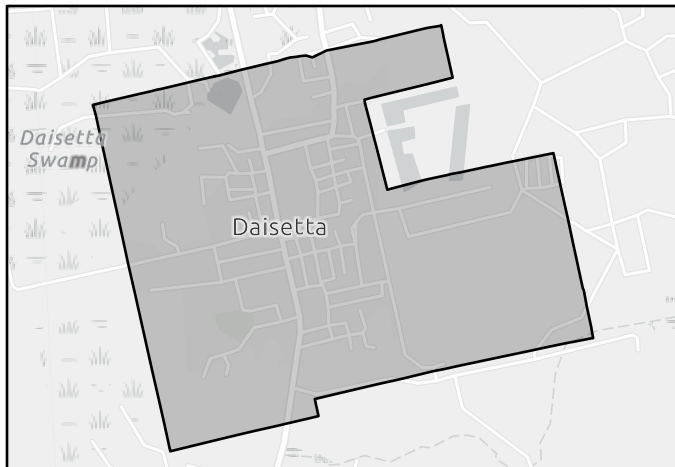
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

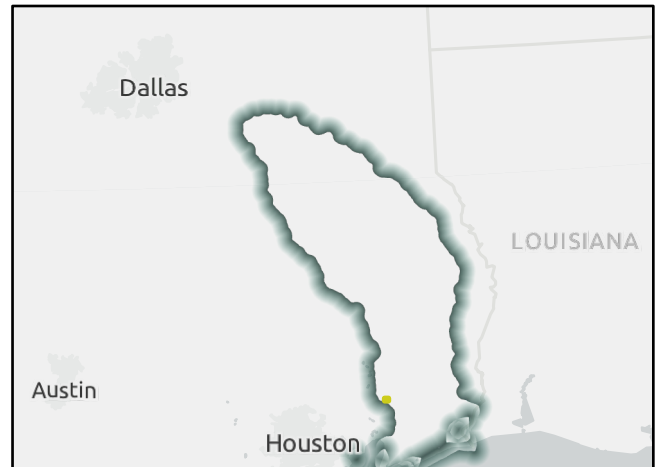
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  Yes Local?  No Playa?  No Other?  Yes

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

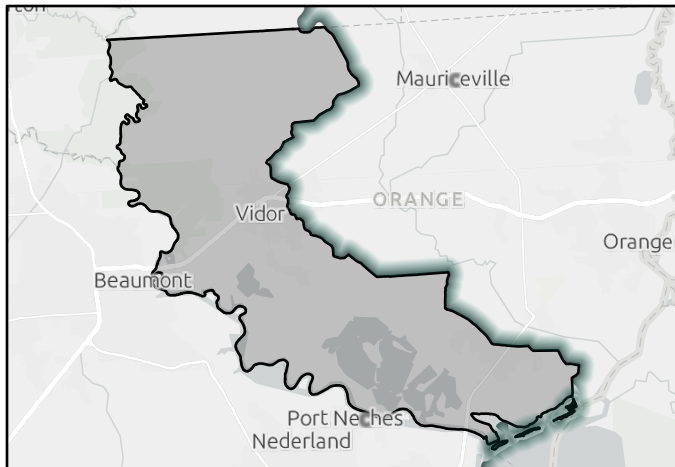
## Impacts

Negative impacts?  No Negative impacts description

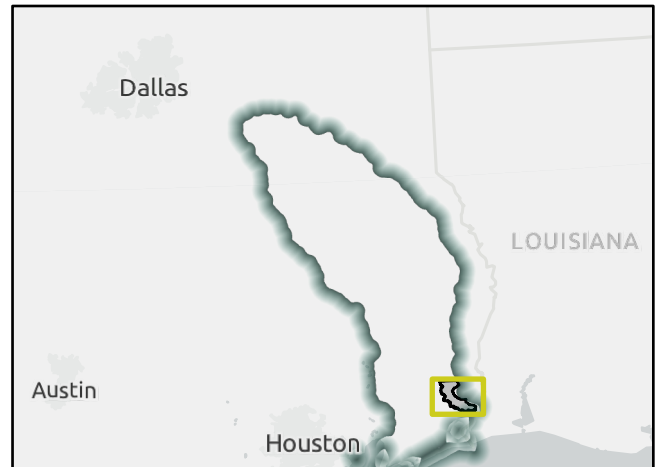
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title Polk County Facilities Hazard Hardening Retrofit

ID# 052000126 Sponsor Polk (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Polk

Strategy description Activities may include but are not limited to: flood proofing, impact resistant windows, storm shutters, roof straps, structural bracing, low-flow plumbing fixtures, roll-up door reinforcement, grounding systems, and surge-protection.

- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 368 # of structures 84 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 62 Roadway(s) impacted (miles) 17

Number of low water crossings 8 Historical road closures 8

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

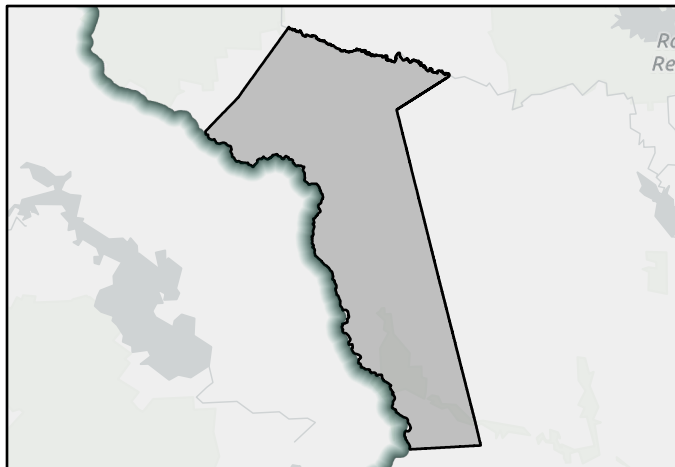
## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,500,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title Polk County Flood Infrastructure Improvements

ID# 052000127 Sponsor Polk (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Polk

Strategy description Implement program to elevate and reinforce roadways and bridges prone to inundation from flooding. Projects may include general road elevation; upgrading culverts and installing headwalls; upgrades and reinforcement of bridges and bridge footings.

Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 368 # of structures 84 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? Yes

Farm/Ranch land impacted (acres) 62 Roadway(s) impacted (miles) 17

Number of low water crossings 8 Historical road closures 8

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

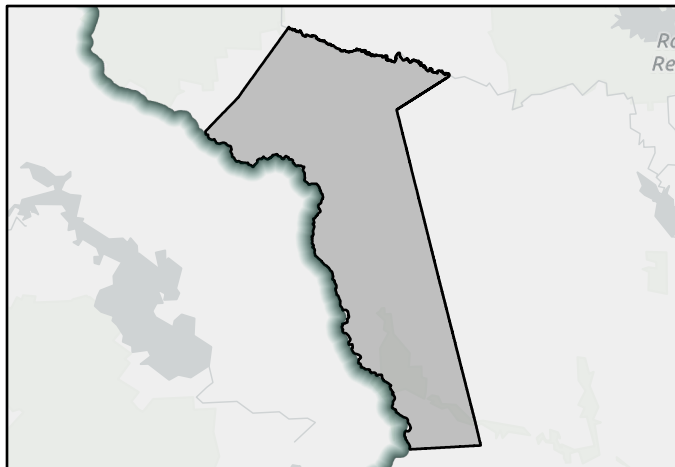
## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$2,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Henderson Flood Infrastructure Maintenance

ID# 052000128 Sponsor Henderson (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Rusk

Strategy description Establish a plan to conduct various flood control maintenance improvements throughout the City

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.
- Goal 3: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 50% of communities.

## Existing 100-Year Flood Risk

Population at risk	97	# of structures	37	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	5	Roadway(s) impacted (miles)	2		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

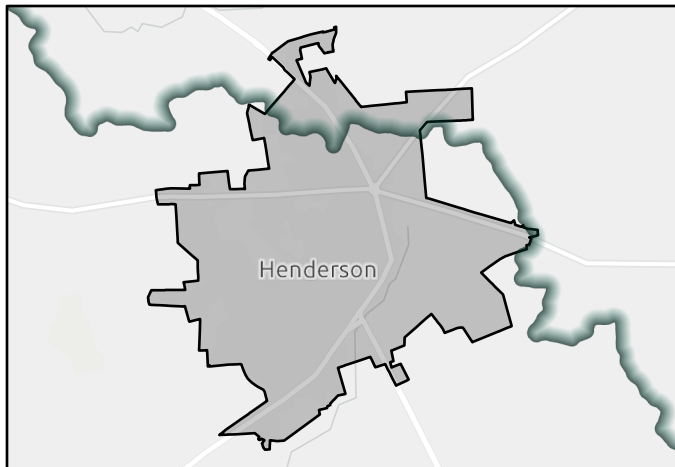
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

## Impacts

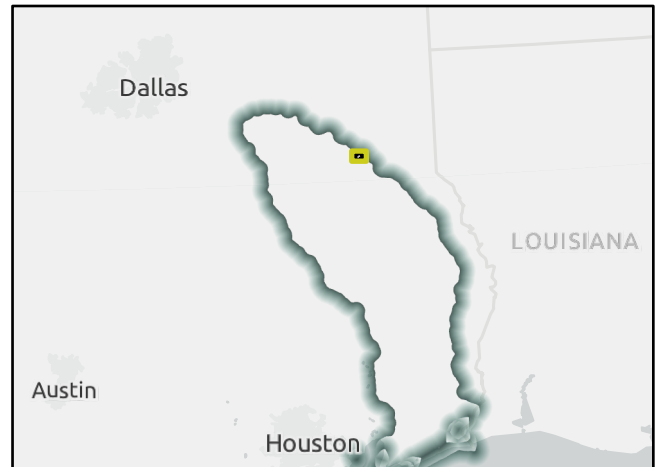
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$1,000,000	Amount of available funding	-	% Nature-Based	0
---------------	-------------	-----------------------------	---	----------------	---



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title San Augustine County Bridge Improvements

ID# 052000129 Sponsor San Augustine (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County San Augustine  
 Strategy description Develop a program to elevate roads and bridges including installing, upsizing culverts and headwalls, and bridge upgrades.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 146 # of structures 64 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 42 Roadway(s) impacted (miles) 13  
 Number of low water crossings 2 Historical road closures 2

## 100-Year Flood Risk Reduction

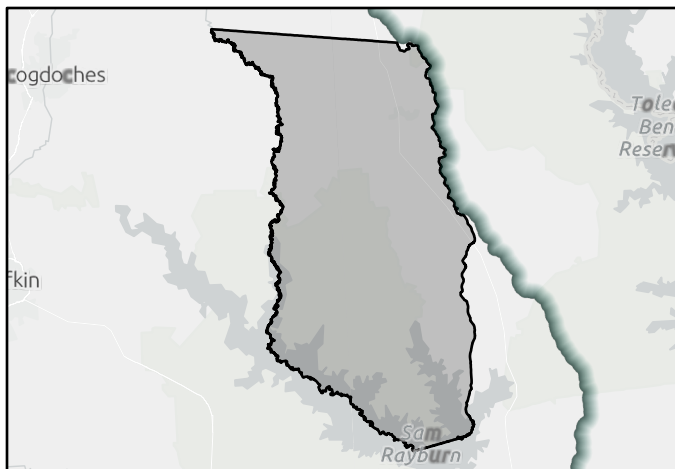
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$2,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title San Augustine County Culvert Upgrades

ID# 052000130 Sponsor San Augustine (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County San Augustine

Strategy description Establish a plan to upgrade culverts in county extent. Actions can include but are not limited to: installing/upgrading culverts and headwalls; and enlarging storm water ditches and canals.

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 146 # of structures 64 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 42 Roadway(s) impacted (miles) 13

Number of low water crossings 2 Historical road closures 2

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

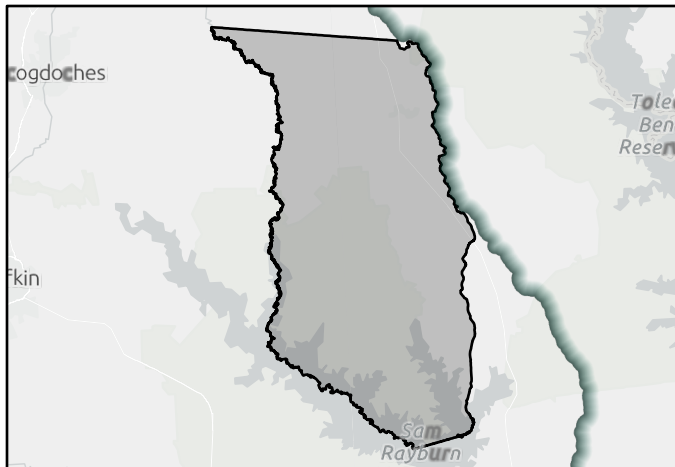
## Impacts

Negative impacts? No Negative impacts description -

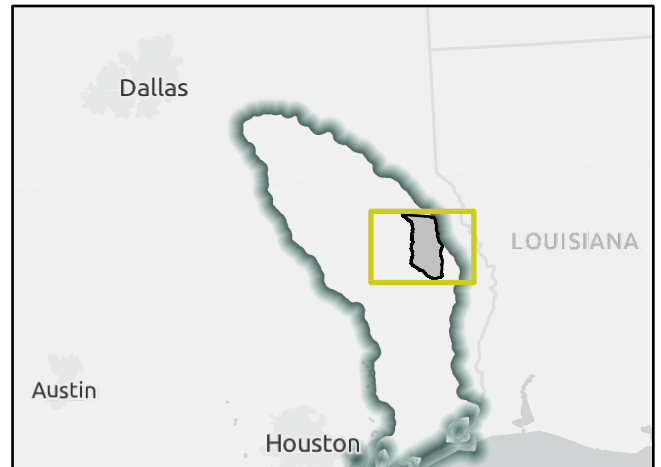
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$2,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title San Augustine County Facilities Hazard Hardening Retrofit

ID# 052000131 Sponsor San Augustine (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County San Augustine

Strategy description Actions can include but are not limited to: installing window screens, storm shutters, window film reinforcements, roof straps, and flood proofing.

- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 146 # of structures 64 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 42 Roadway(s) impacted (miles) 13

Number of low water crossings 2 Historical road closures 2

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

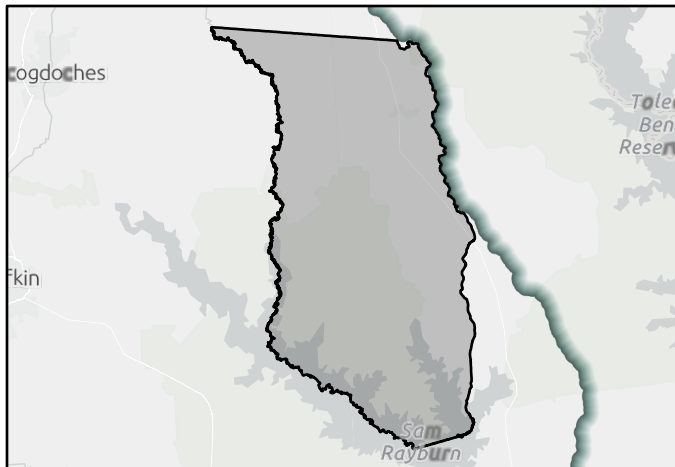
## Impacts

Negative impacts? No Negative impacts description -

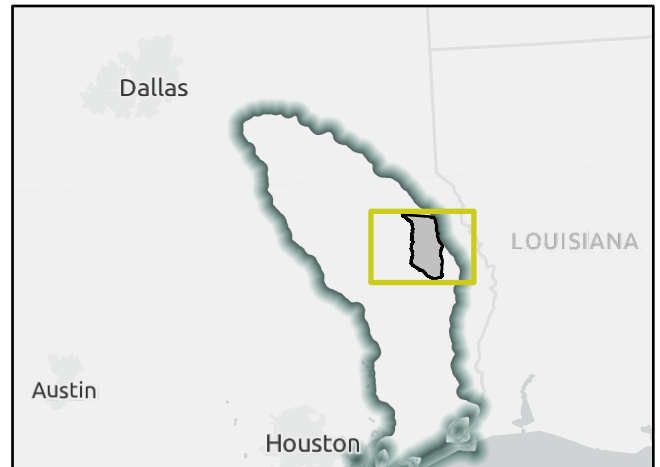
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,500,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title San Augustine County Detention and Retention Pond Construction

ID# 052000132 Sponsor San Augustine (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County San Augustine  
 Strategy description Construct storm water detention/retention ponds at strategic locations for improved stormwater storage to hold storm water run-off and as a mitigation measure for drought and wildfire.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 146 # of structures 64 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 42 Roadway(s) impacted (miles) 13  
 Number of low water crossings 2 Historical road closures 2

## 100-Year Flood Risk Reduction

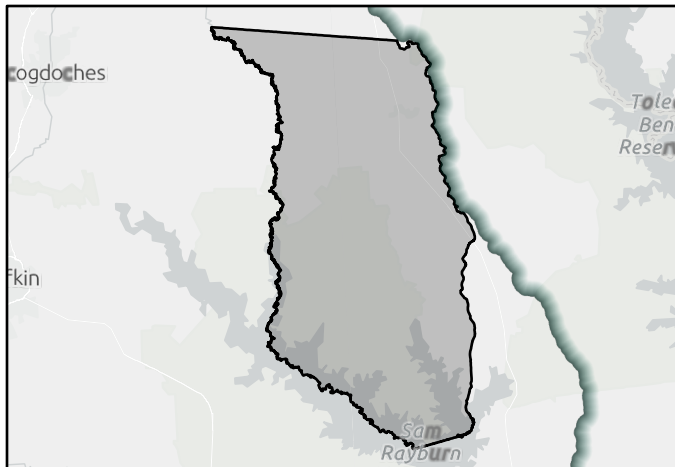
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$3,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of San Augustine and City of Broaddus County Facilities Hazard Hardening Retrofit

ID# 052000133 Sponsor San Augustine (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County San Augustine

Strategy description Construct flood protection, winter storm-hardening, and expansive soils mitigation projects for water distribution networks and wastewater facilities for Cities of Broaddus and San Augustine.

- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
- Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
- Goal(s) Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
- Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 114 # of structures 34 Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 2 Roadway(s) impacted (miles) 1

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years -

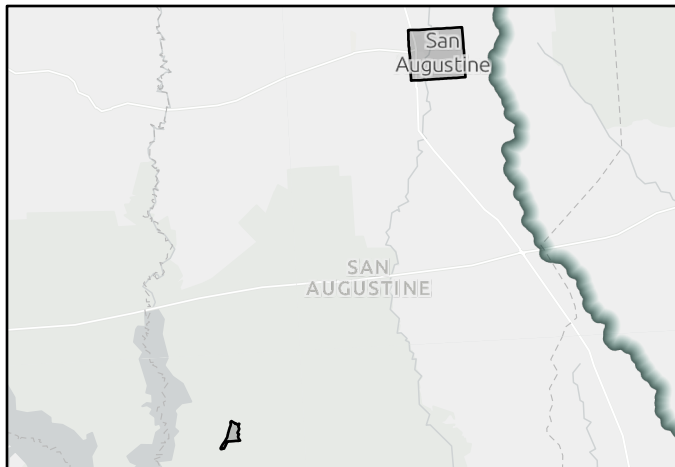
## Impacts

Negative impacts? No Negative impacts description -

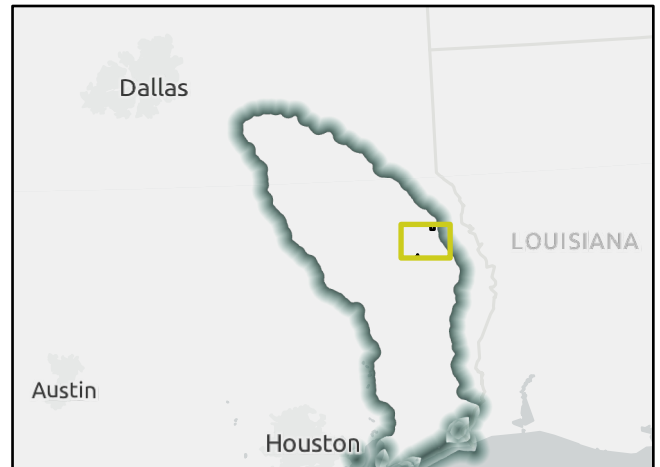
Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 - 2033.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  No

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

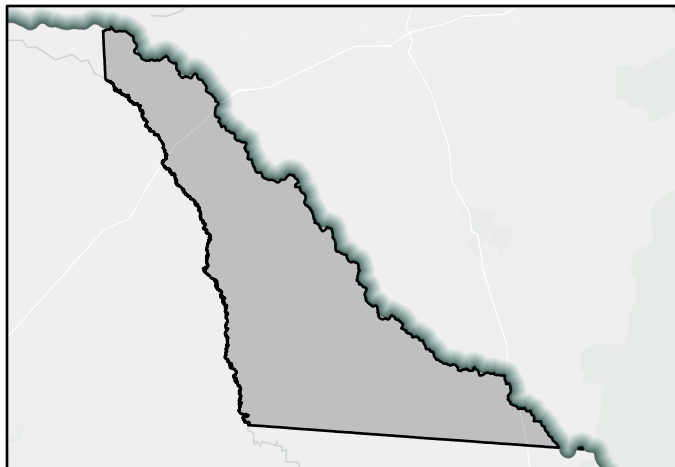
## Impacts

Negative impacts?  Negative impacts description

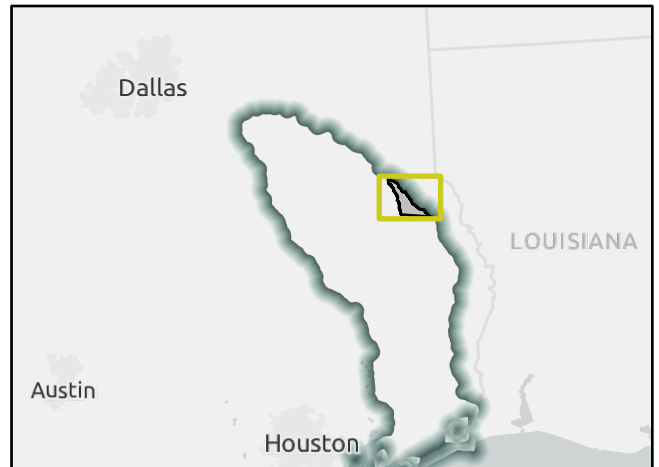
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  No

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

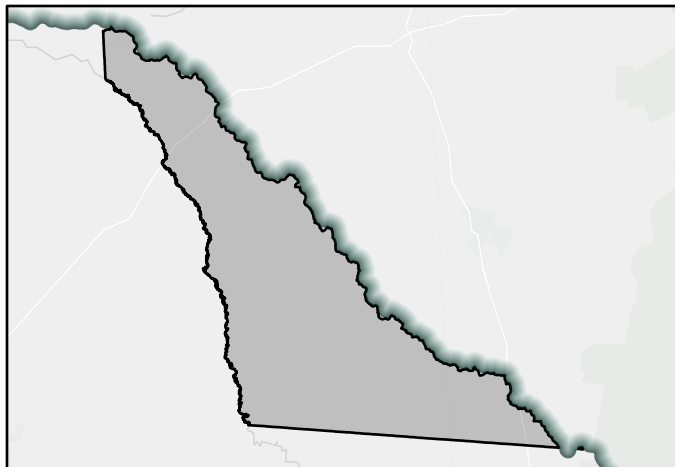
## Impacts

Negative impacts?  No Negative impacts description

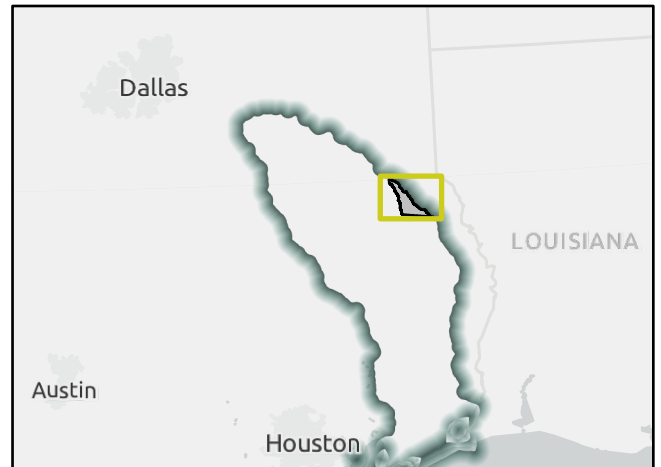
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal(s)
- Goal 1: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
  - Goal 2: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
  - Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
  - Goal 4: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Coastal?  Local?  Playa?  Other?

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

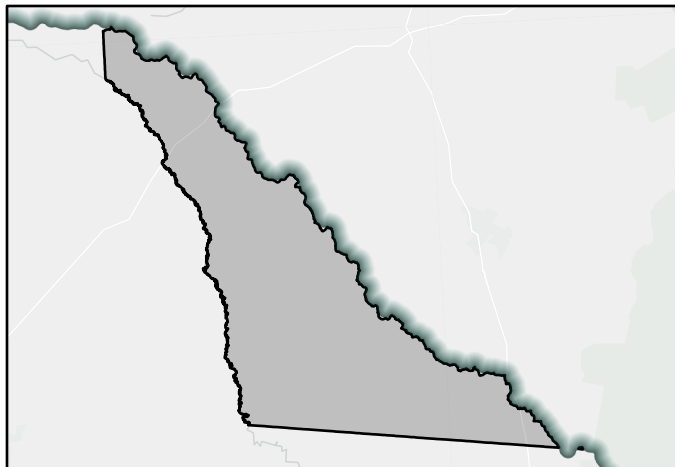
## Impacts

Negative impacts?  Negative impacts description

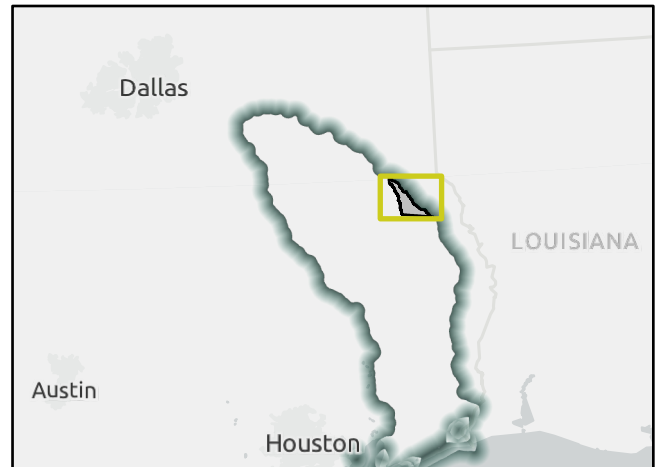
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  No

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

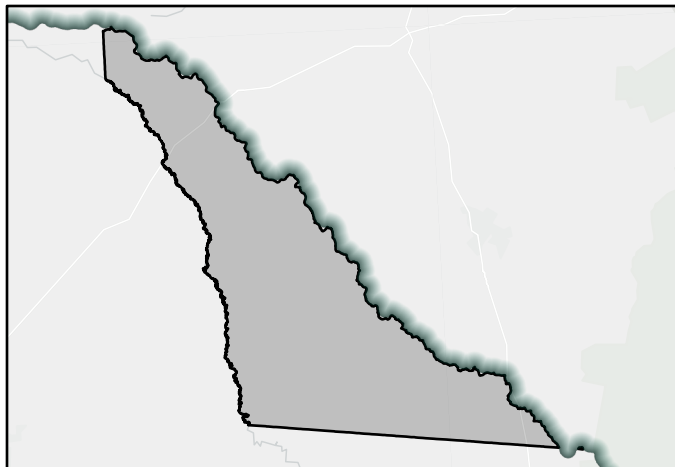
## Impacts

Negative impacts?  Negative impacts description

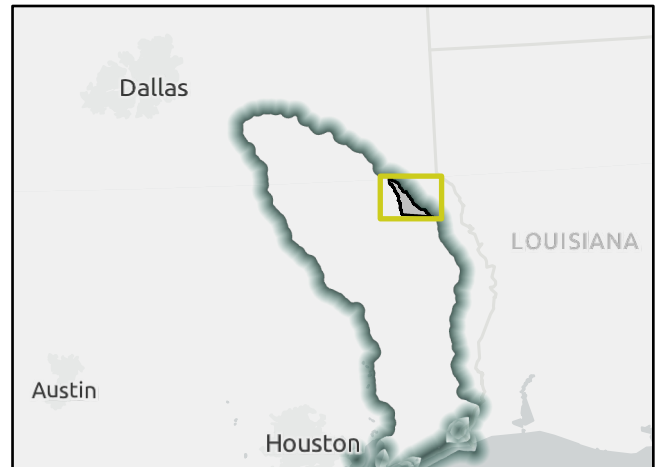
Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Tyler Open Channel Improvements

ID# 052000138 Sponsor Tyler (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Smith  
 Strategy description Implement a program to enclose open channels that are contributing to flooding. Priority locations are: 1) Ashmore subdivision between Ashmore and Salisbury and 2) Fleishel Ave. between 6th and 8th Streets.

Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 7,482 # of structures 1,042 Critical facilities 72  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 4 Roadway(s) impacted (miles) 23  
 Number of low water crossings 31 Historical road closures 31

## 100-Year Flood Risk Reduction

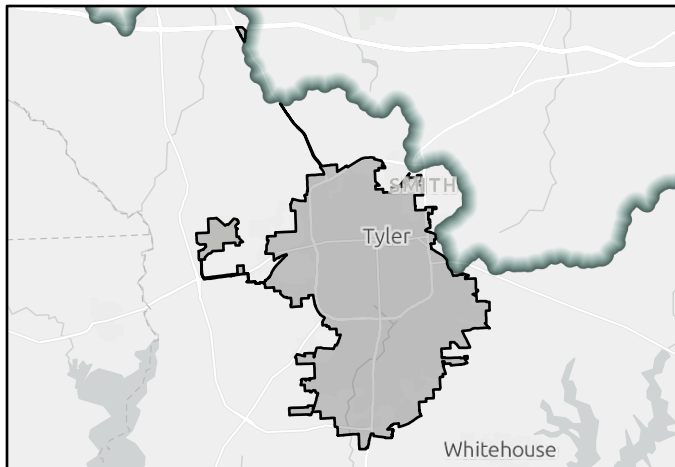
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

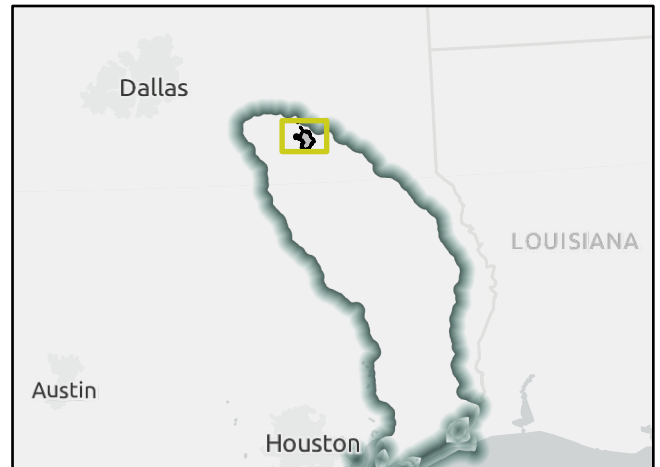
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,500,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title City of Whitehouse Drainage Capacity Upgrades

ID# 052000139 Sponsor Whitehouse (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Smith  
 Strategy description Establish a plan to increase stormwater drainage capacity by completing a hydraulic study, evaluating historical water drainage, then constructing needed improvements.

- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 98 # of structures 33 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 2 Roadway(s) impacted (miles) 1  
 Number of low water crossings 2 Historical road closures 2

## 100-Year Flood Risk Reduction

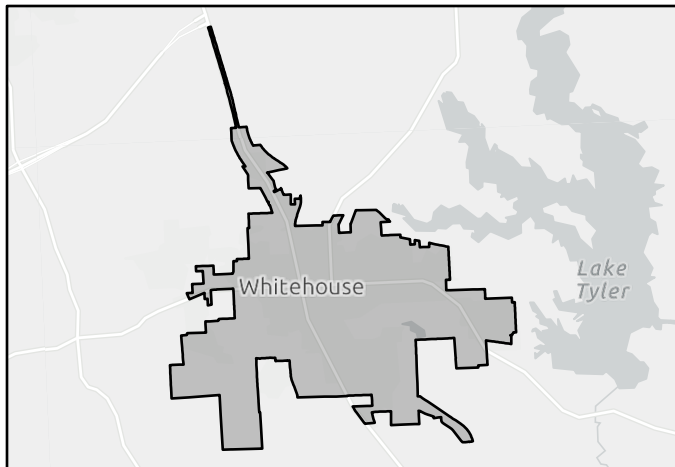
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

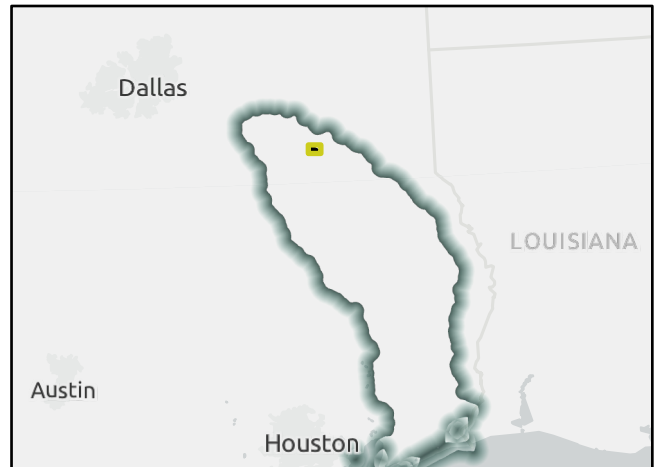
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$1,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.

Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  No

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

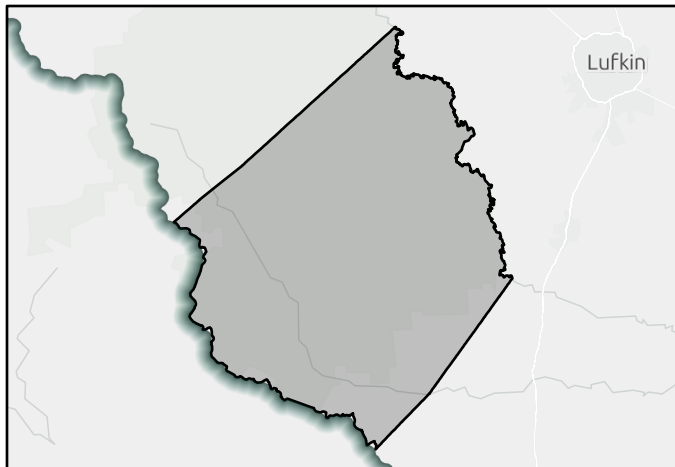
## Impacts

Negative impacts?  No Negative impacts description

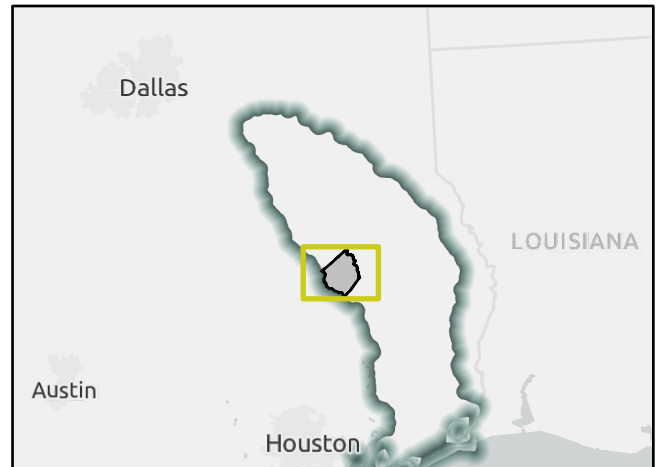
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title Trinity County Flood-prone Infrastructure Upgrades

ID# 052000141 Sponsor Trinity (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Trinity  
 Strategy description Develop a program to upgrade flood infrastructure in the county. May include general roadway elevation upgrading culverts and installing headwalls; upgrades and reinforcement of bridges and bridge footings; etc.

Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk 15 # of structures 32 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 68 Roadway(s) impacted (miles) 22  
 Number of low water crossings 1 Historical road closures 1

## 100-Year Flood Risk Reduction

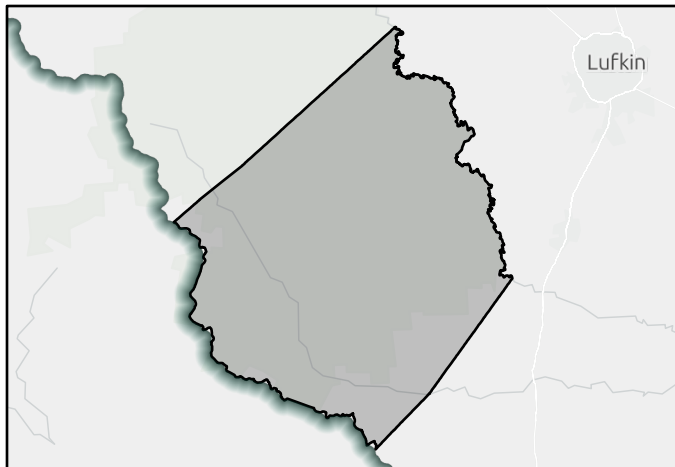
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

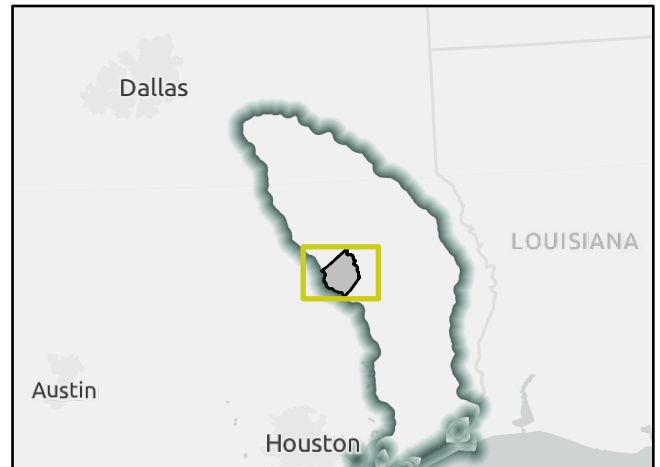
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$2,000,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title City of Groveton Flood Infrastructure Upgrades

ID# 052000142 Sponsor Groveton (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type Infrastructure Projects County Trinity  
 Strategy description Within the city, develop a plan to install/improve culverts and headwalls in addition to expanding stormwater ditches and canals

Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.  
 Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.

## Existing 100-Year Flood Risk

Population at risk 2 # of structures 3 Critical facilities 0  
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 0  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

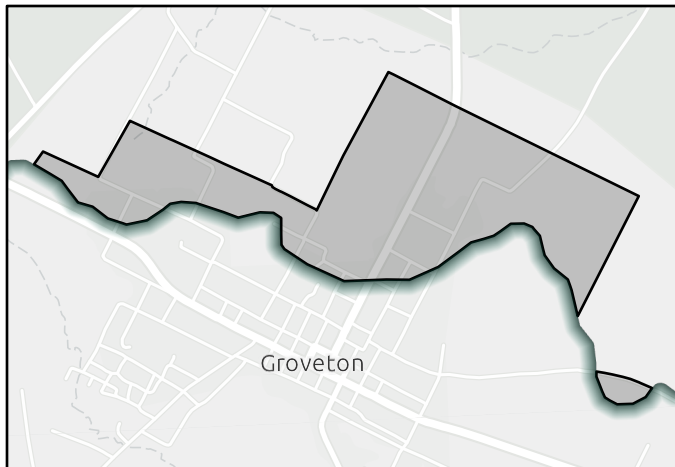
Population removed from 100-yr - # of structures removed from 100-yr -  
 Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -  
 Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -  
 Other benefits - Reduction in # of road closures over 10 years -

## Impacts

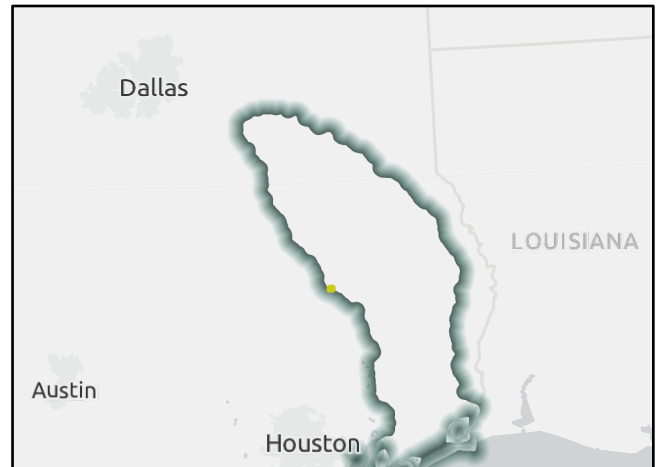
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Strategy Cost \$750,000 Amount of available funding - % Nature-Based 0



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  Yes

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

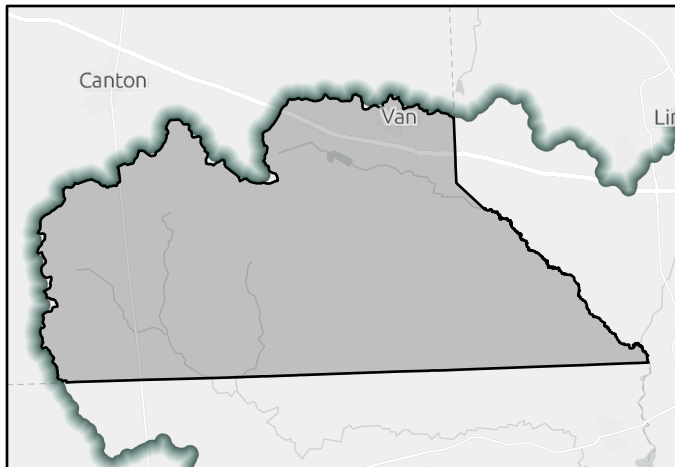
## Impacts

Negative impacts?  No Negative impacts description

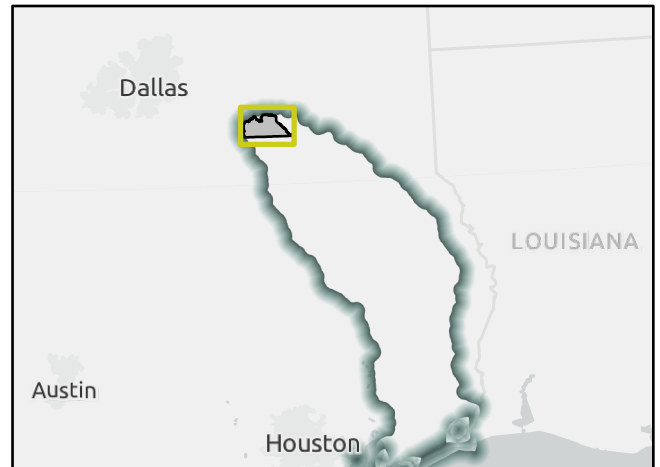
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal(s)
- Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.
  - Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.
  - Goal 3: Increase percentage of areas with dedicated funding sources for operations and maintenance for storm drainage system to 50% of communities.

## Existing 100-Year Flood Risk

Population at risk	<input type="text" value="233"/>	# of structures	<input type="text" value="217"/>	Critical facilities	<input type="text" value="0"/>
Flood risk type:	Riverine? <input type="text" value="Yes"/>	Coastal? <input type="text" value="No"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="Yes"/>
Farm/Ranch land impacted (acres)	<input type="text" value="232"/>	Roadway(s) impacted (miles)	<input type="text" value="13"/>		
Number of low water crossings	<input type="text" value="0"/>	Historical road closures	<input type="text" value="0"/>		

## 100-Year Flood Risk Reduction

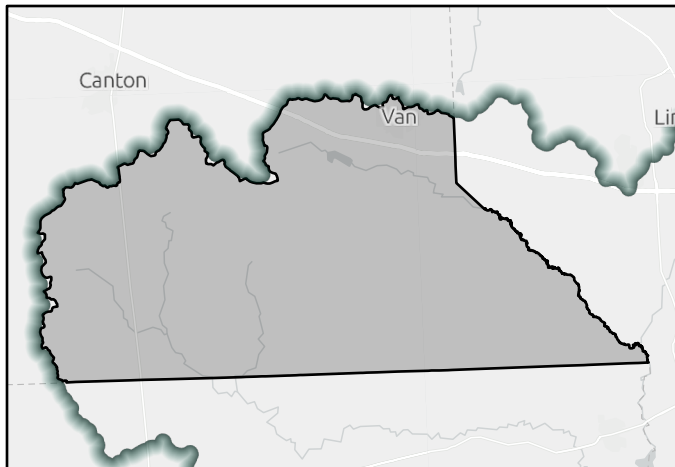
Population removed from 100-yr	<input type="text" value="-"/>	# of structures removed from 100-yr	<input type="text" value="-"/>
Critical facilities removed from 100-yr	<input type="text" value="-"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="-"/>
Road removed from 100-yr (miles)	<input type="text" value="-"/>	Low water crossings removed from 100-yr	<input type="text" value="-"/>
Other benefits	<input type="text" value="-"/>	Reduction in # of road closures over 10 years	<input type="text" value="-"/>

## Impacts

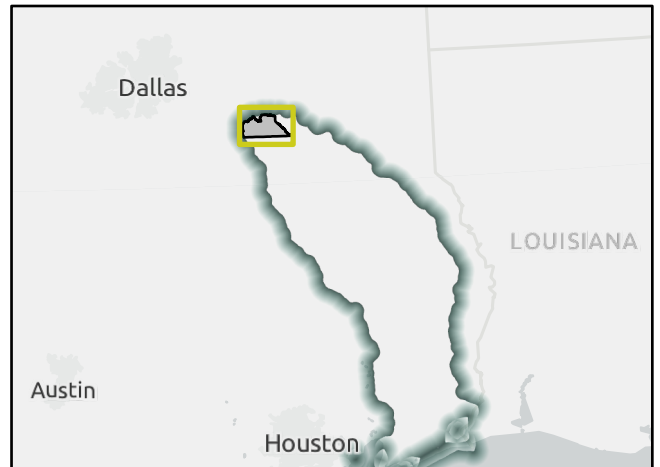
Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="-"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="-"/>

## Estimated Cost

Strategy Cost	<input type="text" value="\$2,000,000"/>	Amount of available funding	<input type="text" value="-"/>	% Nature-Based	<input type="text" value="0"/>
---------------	--	-----------------------------	--------------------------------	----------------	--------------------------------



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County   
 Strategy description

Goal 1: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 10% of structures.  
 Goal(s) Goal 2: Reduce exposure of existing and future structures in the 100-year flood risk inundation extents by elevating, acquiring, relocating, or otherwise providing flood protection to 30% of structures.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities   
 Flood risk type: Riverine?  Yes Coastal?  No Local?  Yes Playa?  No Other?  Yes  
 Farm/Ranch land impacted (acres)  Roadway(s) impacted (miles)   
 Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

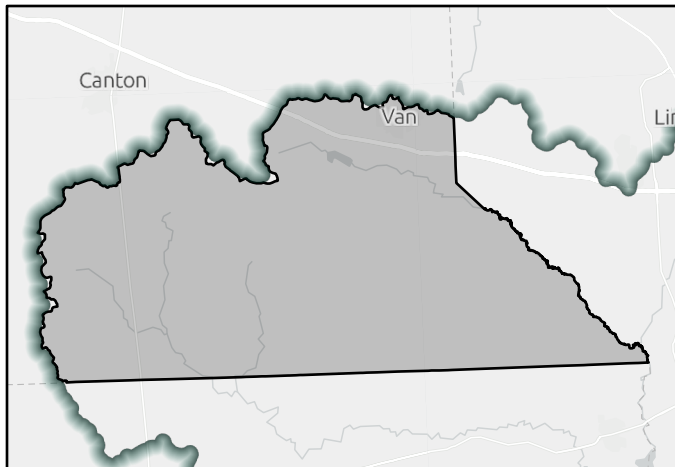
Population removed from 100-yr  # of structures removed from 100-yr   
 Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)   
 Road removed from 100-yr (miles)  Low water crossings removed from 100-yr   
 Other benefits  Reduction in # of road closures over 10 years

## Impacts

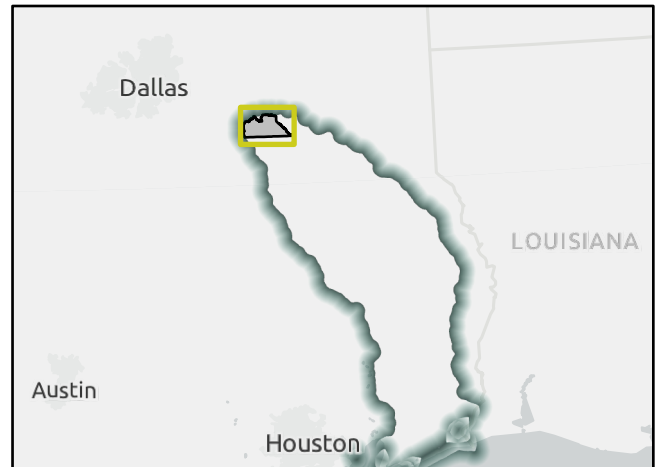
Negative impacts?  No Negative impacts description   
 Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)

REGION 5

# NECHES

Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: Increase the coverage of flood hazard data across the region by completing detailed studies that utilize consistent methodology in 75% of areas identified as having current gaps in flood mapping.
- Goal(s) Goal 2: Increase the coverage of flood hazard data across the region by completing detailed studies that utilize consistent methodology in 100% of areas identified as having current gaps in flood mapping.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  No Playa?  No Other?  Yes

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

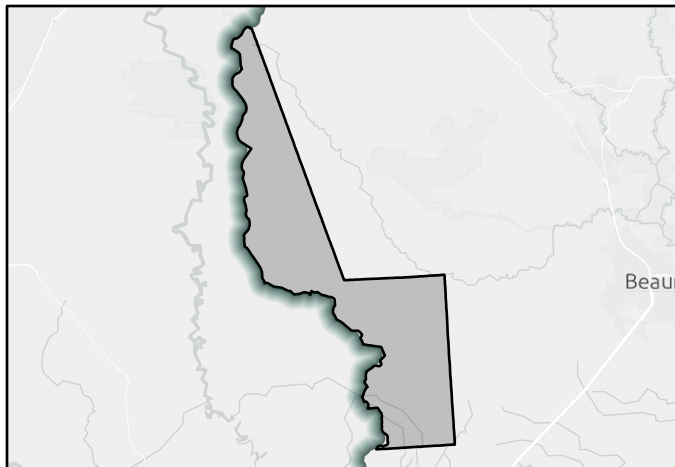
## Impacts

Negative impacts?  No Negative impacts description

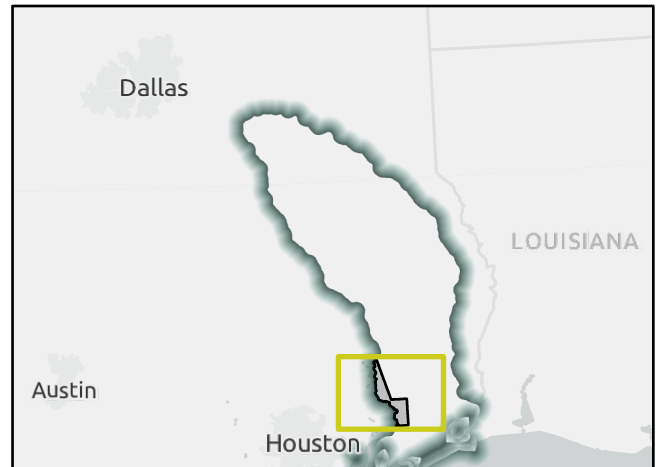
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area



# Flood Management Strategy (FMS)

REGION 5



Title

ID#  Sponsor

RFPG recommend?  Yes Reason for Recommendation

REGIONAL FLOOD PLANNING GROUP

## Strategy Details

Strategy type  County

Strategy description

- Goal 1: An average of 10% of the new regional infrastructure projects between 2023 – 2033 will utilize larger storm events (>100-year) as the basis of their design.
- Goal(s) Goal 2: An average of 25% of the new regional infrastructure projects between 2033- 2053 will utilize larger storm events (>100-year) as the basis of their design.
- Goal 3: RFPG must consider in all projects and should incorporate nature-based practices and floodplain preservation in an average of 10% of their new flood risk reduction projects between 2023 – 2033.

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

Flood risk type: Riverine?  Yes Coastal?  No Local?  No Playa?  No Other?  Yes

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

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

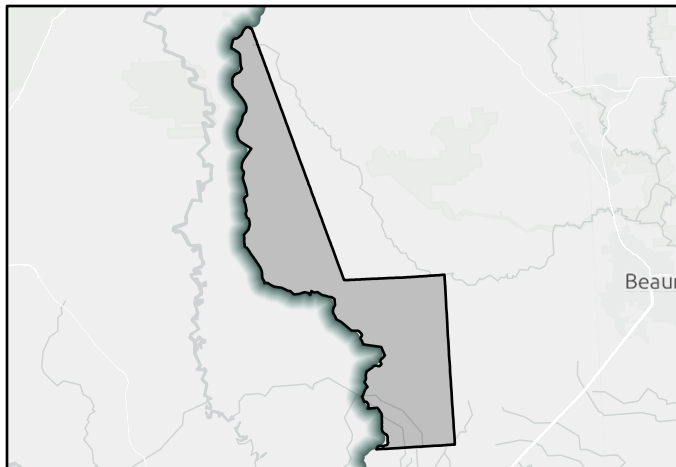
## Impacts

Negative impacts?  No Negative impacts description

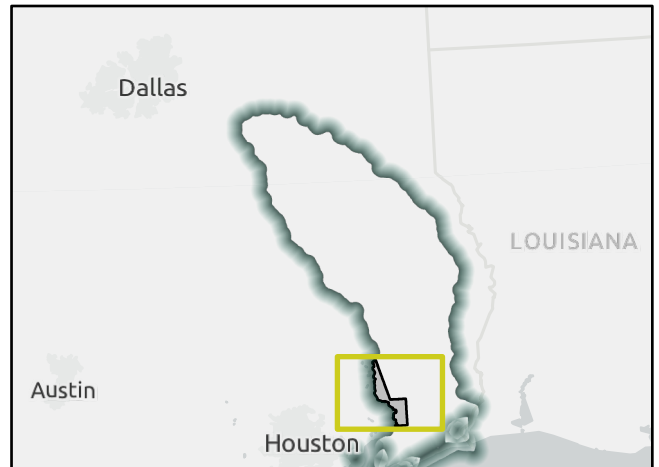
Water supply contributions?  No Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Mitigation Project (FMP)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title Bayou Din Detention Basin  
 ID# 053000001 Sponsor Jefferson County Drainage District 6  
 RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

Construct a new detention basin with nearby channel and crossing improvements in the vicinity of Bayou Din.

Watershed HUC# (if known) 120402010100,120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 19  
 Associated FME's - County Jefferson  
 Associated FMS's - Associated FMP's -

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 1,774 # of structures 534 Critical facilities 21  
 Farm/Ranch land impacted (acres) 1,048 Roadway(s) impacted (length) 15  
 Number of low water crossings 5 Historical road closures 5

## 100-Year Flood Risk Reduction

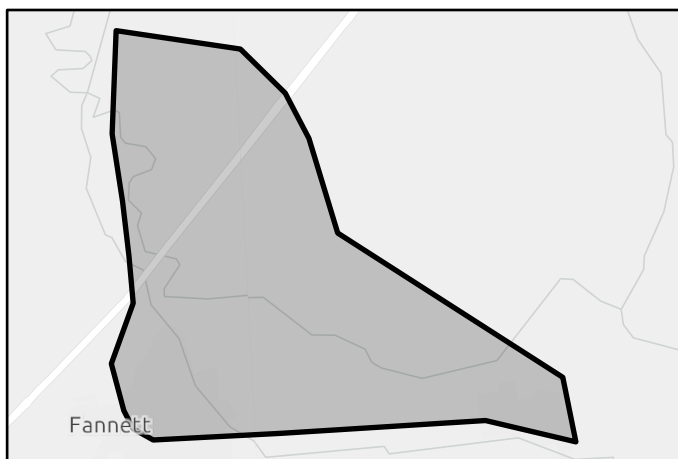
Population removed from 100-yr 286 # of structures removed from 100-yr 101  
 Critical facilities removed from 100-yr 4 Farm/Ranch land removed from 100-yr (acres) 45  
 Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0  
 Other benefits Annual ecosystem services benefits of \$20,673,627. Reduction in # of road closures over 10 years -

## Impacts

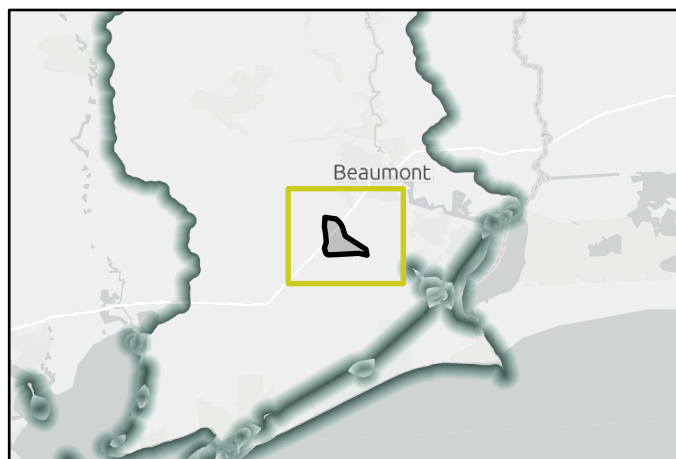
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$85,000,000 % Nature-Based - BCR 5  
 Recurring costs \$6,144,283 Issues USACE coordination may be required due to presence of wetlands. Survey may be required to avoid existing utility conflicts from nearby residential and industrial properties.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title Bessie Heights Drainage Ditch Extension Project  
 ID# 053000002 Sponsor Orange County Drainage District  
 RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

Expand the Bessie Heights Drainage Ditch to address flooding risk to residential properties in the area.

Watershed HUC# (if known) 120200030407 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 3  
 Associated FME's - County Orange  
 Associated FMS's - Associated FMP's -

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 228 # of structures 139 Critical facilities 0  
 Farm/Ranch land impacted (acres) 6 Roadway(s) impacted (length) 3  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

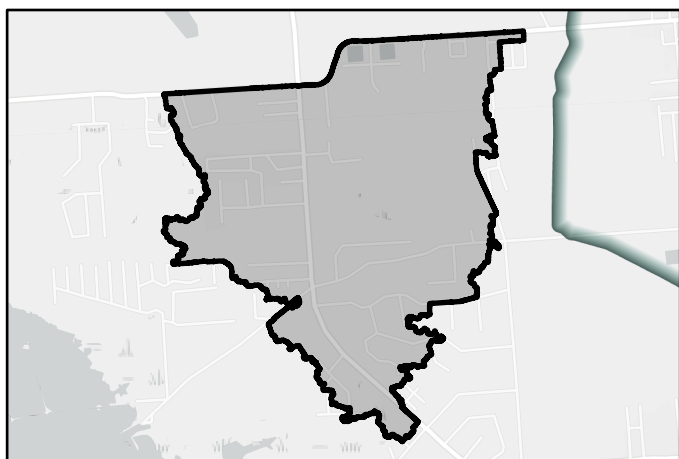
Population removed from 100-yr 10 # of structures removed from 100-yr 8  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 0  
 Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

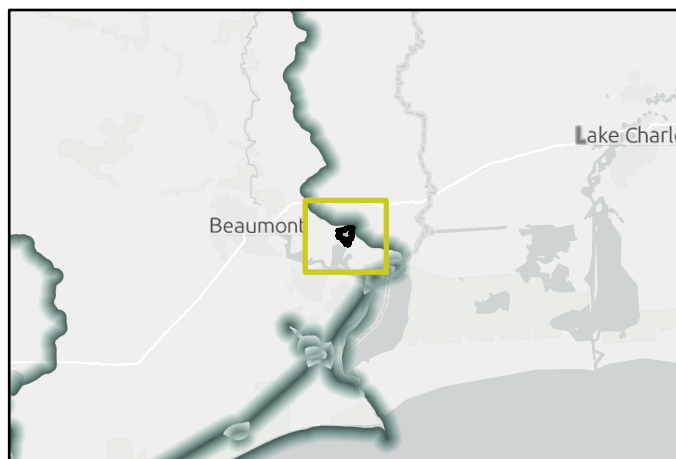
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$4,250,000 % Nature-Based - BCR 0  
 Recurring costs \$307,214 Issues Project is located in a concentrated area of residential buildings. Coordination is likely required with the city and local residents for construction operations.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title **Port Arthur and Vicinity Coastal Storm Risk Management Project**

ID# **053000004** Sponsor **Jefferson County Drainage District 7**

RFPG recommend? **Yes** Reason for Recommendation **Project in area of emergency need and complies with RFPG Goals**

## Project Description

Construct levees, floodwalls, pump stations, drainage structures, and other flood mitigation infrastructure to reduce adverse flood impact in the vicinity of the city of Port Arthur.

Watershed HUC# (if known) **120200030407,120402010300** Emergency Need? **Yes**

Drainage area (mi<sup>2</sup> est.) **66**

Associated FME's **-** County **Jefferson**

Associated FMS's **-** Associated FMP's **-**

## Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **Yes** Local? **No** Playa? **No** Other? **No**

Population at risk **73,381** # of structures **23,310** Critical facilities **1,201**

Farm/Ranch land impacted (acres) **97** Roadway(s) impacted (length) **327**

Number of low water crossings **3** Historical road closures **3**

## 100-Year Flood Risk Reduction

Population removed from 100-yr **8,315** # of structures removed from 100-yr **3,275**

Critical facilities removed from 100-yr **71** Farm/Ranch land removed from 100-yr (acres) **12**

Road removed from 100-yr (miles) **32** Low water crossings removed from 100-yr **0**

Other benefits **N/A** Reduction in # of road closures over 10 years **-**

## Impacts

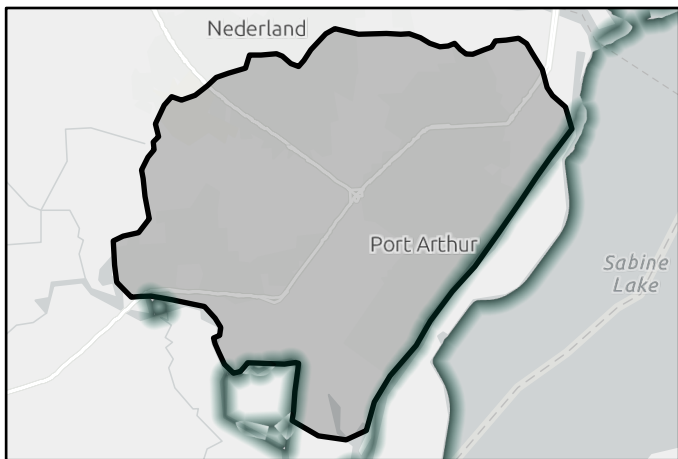
Negative impacts? **No** Negative impacts description **-**

Water supply contributions? **No** Water supply contribution description **-**

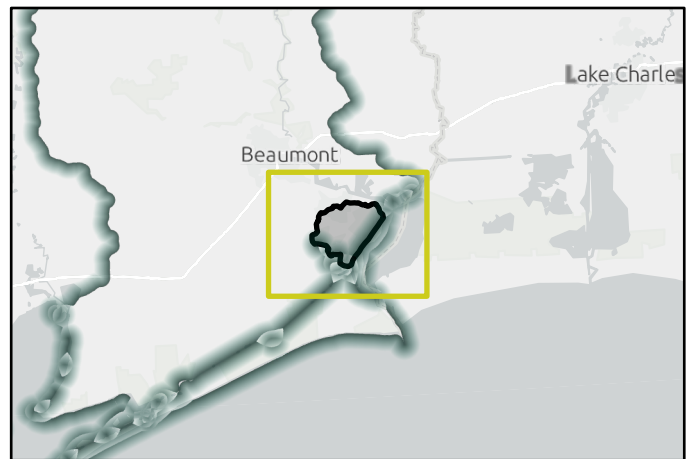
## Estimated Cost

Project Cost **\$863,000,000** % Nature-Based **-** BCR **5**

Recurring costs **\$40,841,408** Issues **There are industrial facilities and residential properties near the project; project may change in design to avoid right-of-way infringements and existing utility conflicts.**



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title Orange County Coastal Storm Risk Management Project  
 ID# 053000005 Sponsor Orange County Drainage District  
 RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

Construct levees, floodwalls, pump stations, drainage structures, and other flood mitigation infrastructure to reduce adverse flood impact in Orange County.

Watershed HUC# (if known) 120200030407,120100051005,12010005100 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 14  
 Associated FME's - County Orange  
 Associated FMS's - Associated FMP's -

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? No Playa? No Other? No  
 Population at risk 9,830 # of structures 3,872 Critical facilities 49  
 Farm/Ranch land impacted (acres) 43 Roadway(s) impacted (length) 61  
 Number of low water crossings 1 Historical road closures 1

## 100-Year Flood Risk Reduction

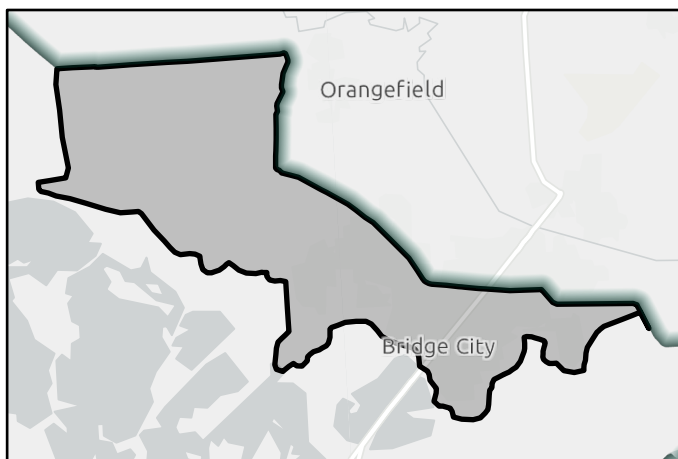
Population removed from 100-yr 357 # of structures removed from 100-yr 201  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 2  
 Road removed from 100-yr (miles) 2 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

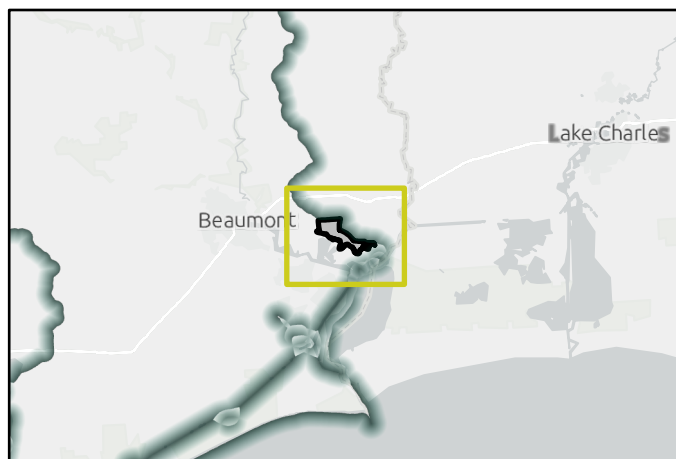
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$119,900,000 % Nature-Based - BCR 1  
 Recurring costs \$173,485,632 Issues There are industrial facilities and residential properties near the project; project may change in design to avoid right-of-way infringements and existing utility conflicts.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title: Black Fork Creek Improvement Project  
 ID#: 053000006 Sponsor: Tyler (Municipality)  
 RFPG recommend? Yes Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

Construct a detent on pond and install a diversion to be placed near the decommissioned Hogg Middle School within the city of Tyler.

Watershed HUC# (if known): 120200010105 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.): 0  
 Associated FME's: 999999 County: Smith  
 Associated FMS's: 999999 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No  
 Population at risk: 540 # of structures: 177 Critical facilities: 6  
 Farm/Ranch land impacted (acres): 0 Roadway(s) impacted (length): 5  
 Number of low water crossings: 4 Historical road closures: 4

## 100-Year Flood Risk Reduction

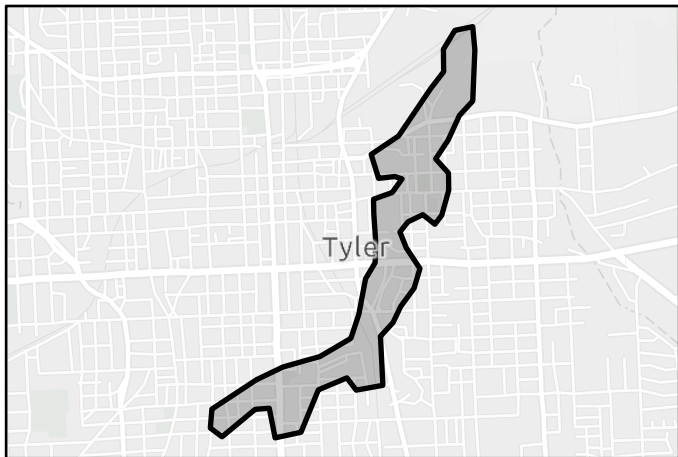
Population removed from 100-yr: 29 # of structures removed from 100-yr: 12  
 Critical facilities removed from 100-yr: 0 Farm/Ranch land removed from 100-yr (acres): 0  
 Road removed from 100-yr (miles): 0 Low water crossings removed from 100-yr: 0  
 Other benefits: Detent on Pond will be designed for dual-use. Reduction in # of road closures over 10 years: -

## Impacts

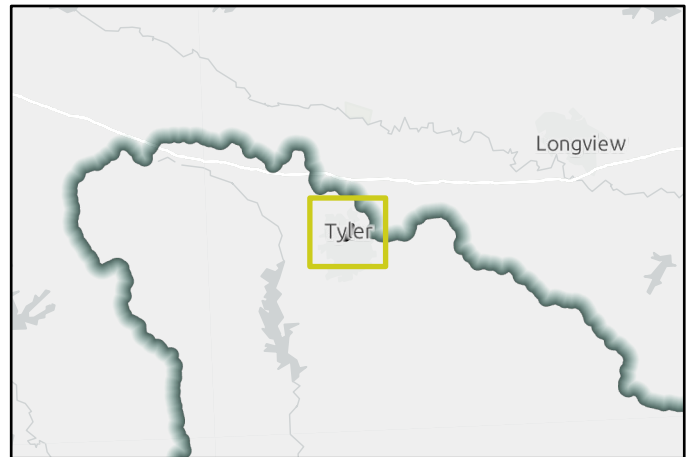
Negative impacts? No Negative impacts description: -  
 Water supply contributions? No Water supply contribution description: -

## Estimated Cost

Project Cost: \$22,234,300 % Nature-Based: - BCR: 0  
 Recurring costs: \$12,000  
 Issues: There is a high density of development near the project location. Transportation to project site could be hampered and work may have to be done surveying land to prevent negatively impacting existing utilities.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title: Sandy Creek Improvement Project

ID#: 053000007 Sponsor: Jasper (Municipality)

RFPG recommend? Yes Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

The project includes two new detention basins located along Sandy Creek to mitigate flooding historically experienced by the City of Jasper.

Watershed HUC# (if known): 120200030205, 120200030301, 12020005080 Emergency Need? Yes

Drainage area (mi<sup>2</sup> est.): 8

Associated FME's: 999999 County: Jasper

Associated FMS's: 999999 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No

Population at risk: 2,199 # of structures: 279 Critical facilities: 10

Farm/Ranch land impacted (acres): 4 Roadway(s) impacted (length): 13

Number of low water crossings: 2 Historical road closures: 2

## 100-Year Flood Risk Reduction

Population removed from 100-yr: 160 # of structures removed from 100-yr: 16

Critical facilities removed from 100-yr: 0 Farm/Ranch land removed from 100-yr (acres): 0

Road removed from 100-yr (miles): 0 Low water crossings removed from 100-yr: 0

Other benefits: N/A Reduction in # of road closures over 10 years: -

## Impacts

Negative impacts? No Negative impacts description: -

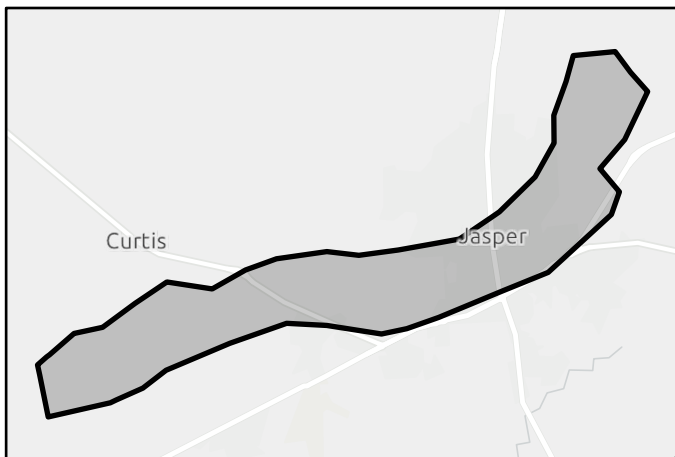
Water supply contributions? No Water supply contribution description: -

## Estimated Cost

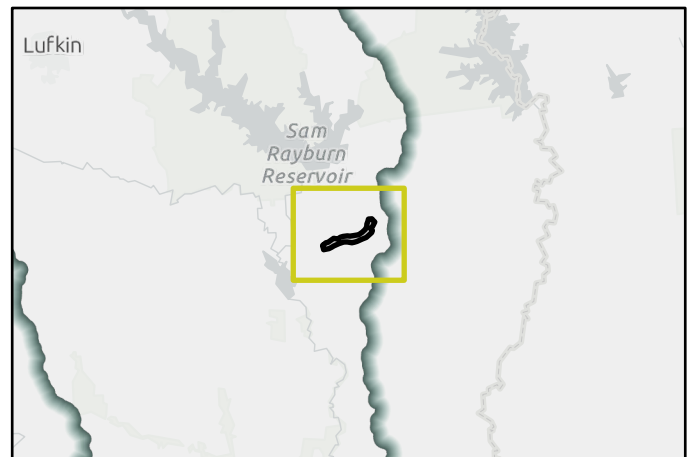
Project Cost: \$224,924,330 % Nature-Based: - BCR: 0

Recurring costs: \$12,000

Issues: The project area is located in a "food valley" where there are significant elevation changes as you move closer to the more developed parts of the city. Substantial improvements will have to be implemented to affect any



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Sour Lake Channel Improvements

ID# 053000008 Sponsor Hardin (County)

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes a new diversion channel through Sour Lake, providing a path for runoff from the West to the East.

Watershed HUC# (if known) 120200070104,120200070105,12020007011 Emergency Need? Yes

Drainage area (mi<sup>2</sup> est.) 45

Associated FME's 999999 County Hardin,Jefferson,Liberty

Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No

Population at risk 2,565 # of structures 1,106 Critical facilities 23

Farm/Ranch land impacted (acres) 2,306 Roadway(s) impacted (length) 30

Number of low water crossings 3 Historical road closures 3

## 100-Year Flood Risk Reduction

Population removed from 100-yr 515 # of structures removed from 100-yr 59

Critical facilities removed from 100-yr 1 Farm/Ranch land removed from 100-yr (acres) 6

Road removed from 100-yr (miles) 2 Low water crossings removed from 100-yr 0

Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

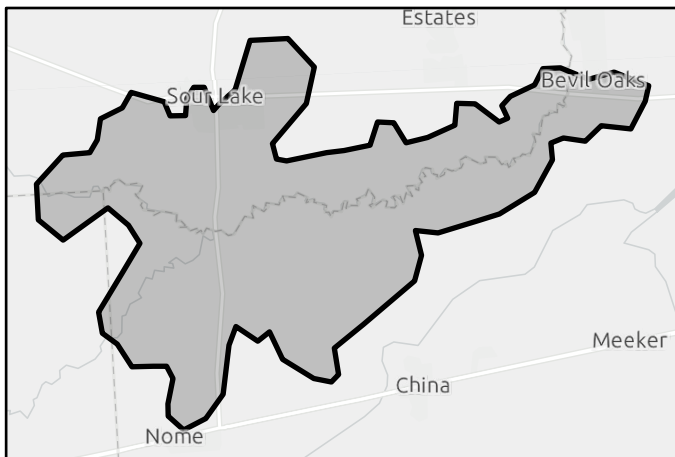
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

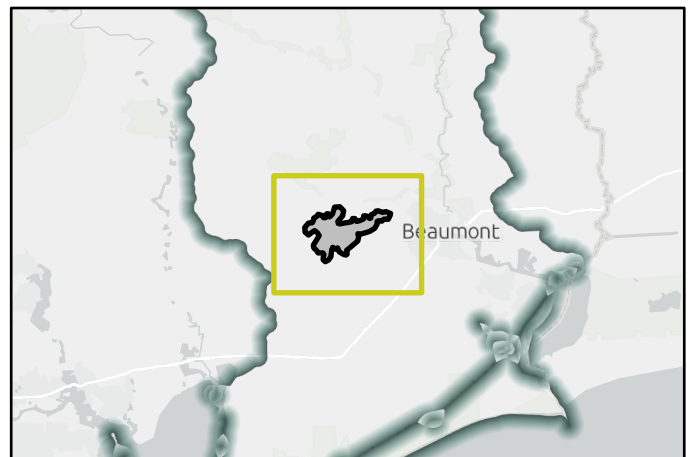
## Estimated Cost

Project Cost \$63,303,926 % Nature-Based - BCR 0

Recurring costs \$12,000 N/A Issues



FMP area



Regional view of FMP area



# Flood Mitigation on Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

RFPG recommend? Yes  Reason for Recommendation

## Project Description

The project proposes widening and deepening of existing channels upstream of the LNVA canal, a diversion channel to the Neches River, and detention basins, near the Rosedale Acres community.

Watershed HUC# (if known)  Emergency Need?

Drainage area (mi<sup>2</sup> est.)

Associated FME's  County

Associated FMS's  Associated FMP's

## Existing 100-Year Flood Risk

Flood risk type: Riverine?  Coastal?  Local?  Playa?  Other?

Population at risk  # of structures  Critical facilities

Farm/Ranch land impacted (acres)  Roadway(s) impacted (length)

Number of low water crossings  Historical road closures

## 100-Year Flood Risk Reduction

Population removed from 100-yr  # of structures removed from 100-yr

Critical facilities removed from 100-yr  Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles)  Low water crossings removed from 100-yr

Other benefits  Reduction in # of road closures over 10 years

## Impacts

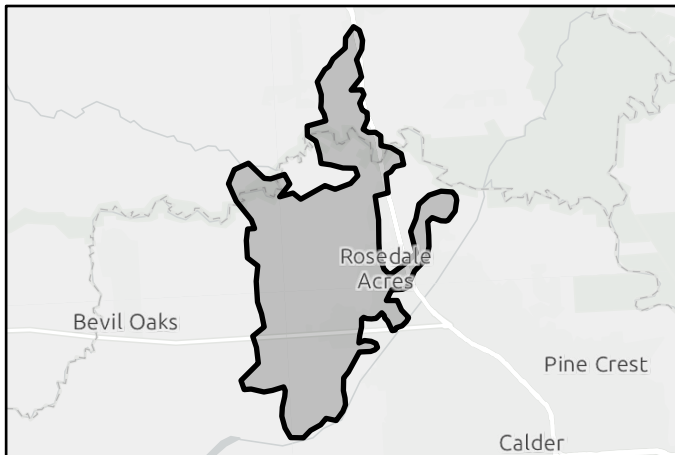
Negative impacts?  Negative impacts description

Water supply contributions?  Water supply contribution description

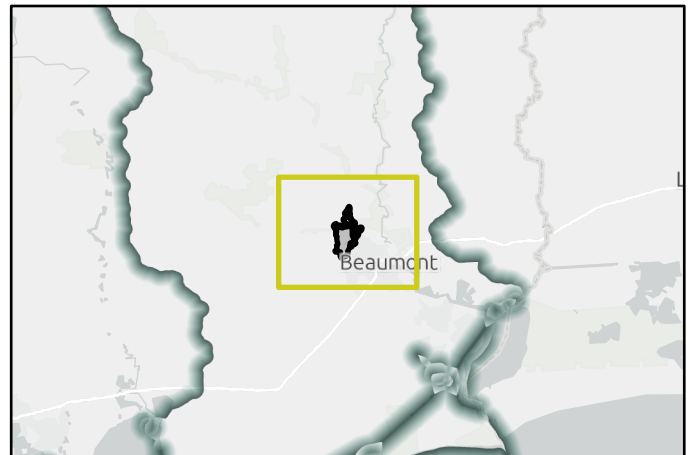
## Estimated Cost

Project Cost  % Nature-Based  BCR

Recurring costs  Issues



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Nome Conveyance Improvements

ID# 053000010 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes an improvement system consisting of channelization along Cotton Creek and an off-line detention basin to mitigate impacts.

Watershed HUC# (if known) 120200070110,120200070201,12040201010 Emergency Need? Yes

Drainage area (mi<sup>2</sup> est.) 10

Associated FME's 999999 County Jefferson,Liberty

Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No

Population at risk 248 # of structures 277 Critical facilities 0

Farm/Ranch land impacted (acres) 1,399 Roadway(s) impacted (length) 12

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr 11 # of structures removed from 100-yr 11

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 3

Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0

Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

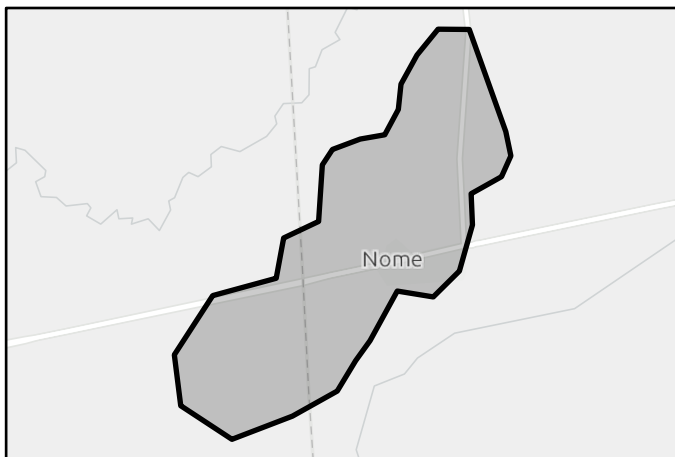
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$163,293,623 % Nature-Based - BCR 0

Recurring costs \$12,000 Issues N/A



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Pevitot Gully Improvement System

ID# 053000011 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes an improvement system consisting of inline detention basins and channelization along Pevitot Gully.

Watershed HUC# (if known) 120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 11  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 1,652 # of structures 287 Critical facilities 1  
 Farm/Ranch land impacted (acres) 935 Roadway(s) impacted (length) 15  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

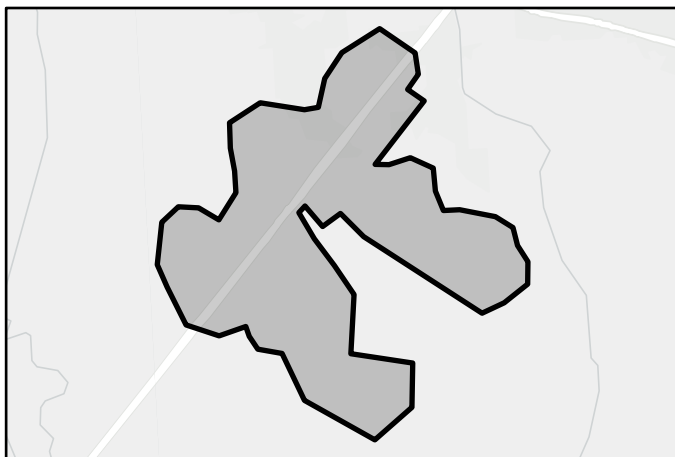
Population removed from 100-yr 245 # of structures removed from 100-yr 27  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 13  
 Road removed from 100-yr (miles) 4 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

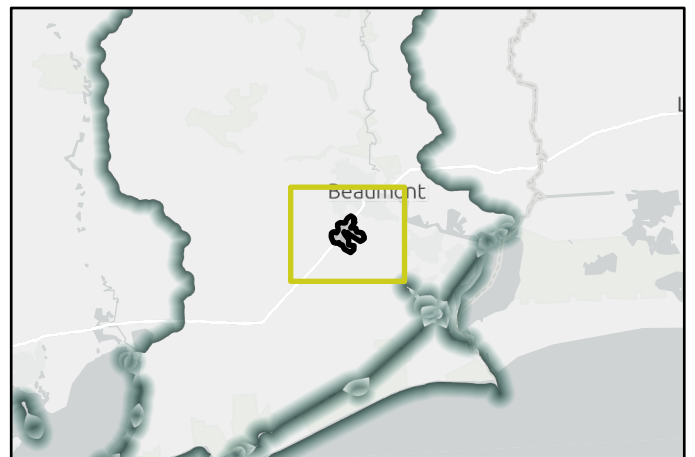
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$319,970,815 % Nature-Based - BCR 0  
 Recurring costs \$12,000 Issues Project is located next to a concentration of existing development and is adjacent to a major highway. Coordination will likely be required with multiple agencies for construction operations.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Willow Marsh Bayou Phelan Blvd Detention

ID# 053000012 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes an improvement system consisting of in-line detention basins and channelization along Willow Marsh from Phelan Blvd to Highway 90.

Watershed HUC# (if known) 120402010100, 120402010200 Emergency Need? Yes

Drainage area (mi<sup>2</sup> est.) 4

Associated FME's 999999 County Jefferson

Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No

Population at risk 417 # of structures 378 Critical facilities 8

Farm/Ranch land impacted (acres) 231 Roadway(s) impacted (length) 6

Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr 35 # of structures removed from 100-yr 14

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 5

Road removed from 100-yr (miles) 1 Low water crossings removed from 100-yr 0

Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

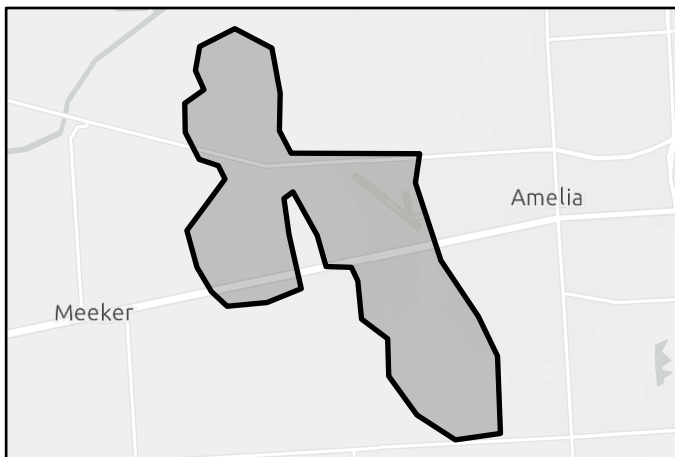
## Estimated Cost

Project Cost \$203,869,200

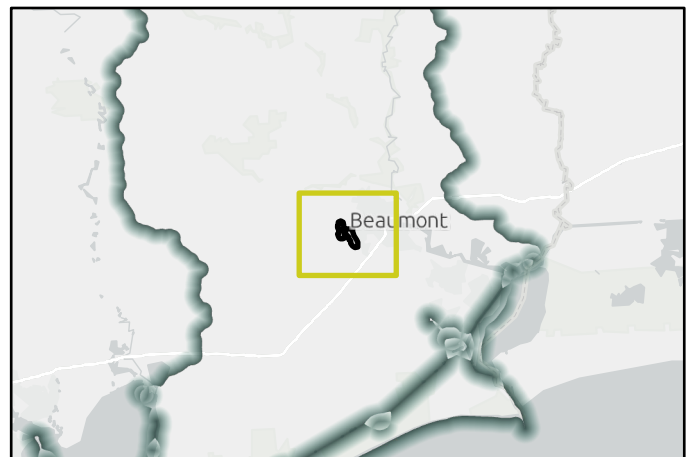
% Nature-Based - BCR 0

Recurring costs \$12,000

Issues Project is located in a concentrated area of residential buildings. Coordination is likely required with the city and local residents for construction operations.



FMP area



Regional view of FMP area

# Flood Mitigation on Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Willow Marsh Main Improvement System

ID# 053000013 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes an improvement system consisting of off-line detention basins and channelization along Willow Marsh from Highway 90 to South Major Dr.

Watershed HUC# (if known) 120402010100, 120402010200, 120402010300 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 98  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 7,544 # of structures 3,853 Critical facilities 35  
 Farm/Ranch land impacted (acres) 5,564 Roadway(s) impacted (length) 85  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

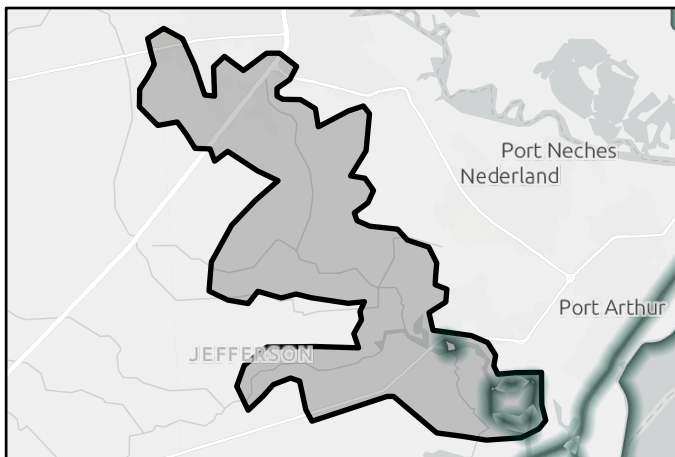
Population removed from 100-yr 239 # of structures removed from 100-yr 102  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 8  
 Road removed from 100-yr (miles) 8 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

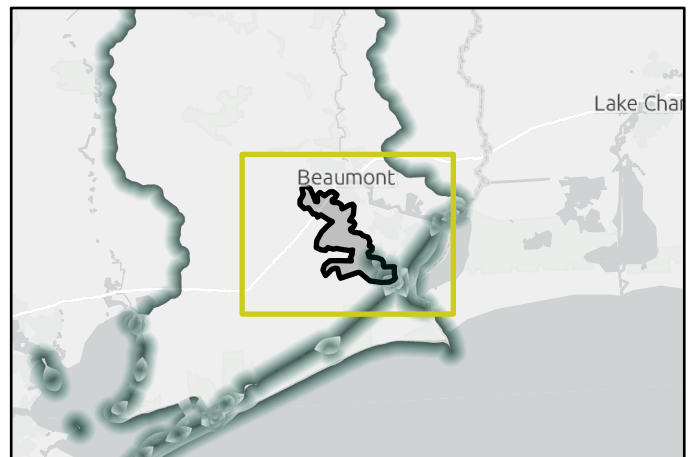
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$1,136,334,277 % Nature-Based - BCR 0  
 Recurring costs \$12,000 Issues Project is located next to a concentration of existing development and is adjacent to a major highway. Coordination will likely be required with multiple agencies for construction operations.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Willow Marsh Downstream

ID# 053000014 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes an improvement system consisting of off-line detention basins and channelization along Willow Marsh from South Major Dr to Hillebrandt Bayou.

Watershed HUC# (if known) 120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 9  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 2,390 # of structures 606 Critical facilities 4  
 Farm/Ranch land impacted (acres) 163 Roadway(s) impacted (length) 19  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr 96 # of structures removed from 100-yr 25  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 2  
 Road removed from 100-yr (miles) 4 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

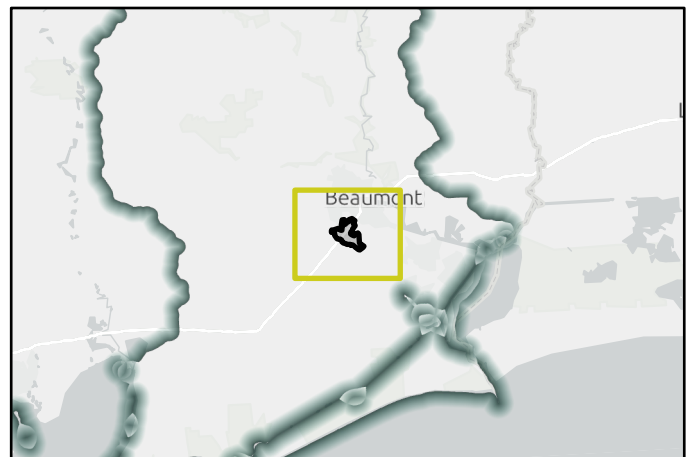
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$118,142,723 % Nature-Based - BCR 0  
 Recurring costs \$12,000 Issues Project is located next to a concentration of existing development and is adjacent to a major highway. Coordination will likely be required with multiple agencies for construction operations.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title: Tyrrell Park Improvements  
 ID#: 053000015 Sponsor: Jefferson County Drainage District 6  
 RFPG recommend? Yes Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes a new channel alignment across Tyrrell Park to an existing channel that outfalls into Hillebrandt Bayou; to gain the full benefits the project should be accompanied by improvements of roadside ditches in adjacent neighborhoods.

Watershed HUC# (if known): 120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.): 2  
 Associated FME's: 999999 County: Jefferson  
 Associated FMS's: 999999 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk: 576 # of structures: 503 Critical facilities: 0  
 Farm/Ranch land impacted (acres): 17 Roadway(s) impacted (length): 7  
 Number of low water crossings: 0 Historical road closures: 0

## 100-Year Flood Risk Reduction

Population removed from 100-yr: 82 # of structures removed from 100-yr: 18  
 Critical facilities removed from 100-yr: 0 Farm/Ranch land removed from 100-yr (acres): 0  
 Road removed from 100-yr (miles): 1 Low water crossings removed from 100-yr: 0  
 Other benefits: N/A Reduction in # of road closures over 10 years: -

## Impacts

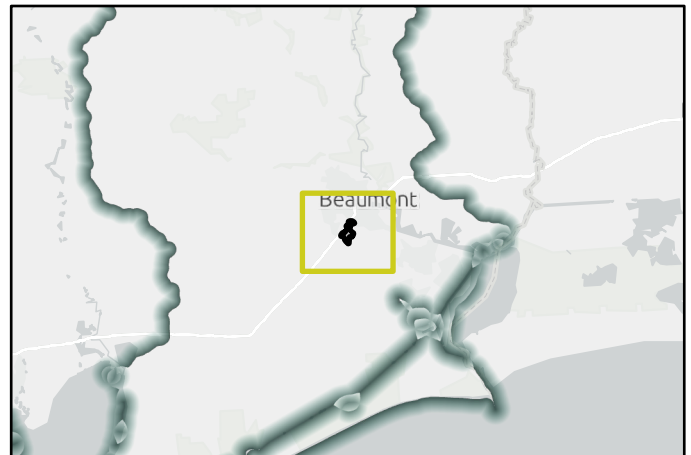
Negative impacts? No Negative impacts description: -  
 Water supply contributions? No Water supply contribution description: -

## Estimated Cost

Project Cost: \$25,095,036 % Nature-Based: - BCR: 0  
 Recurring costs: \$12,000 Issues: N/A



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Green Pond Flow Diversion

ID# 053000016 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes a diversion of storm runoff into the Green Pond detention facility via construction of a berm and spillway across Channel 505-B east of the Green Pond facility. Channel improvements are also included.

Watershed HUC# (if known) 120402010100 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 4  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 362 # of structures 263 Critical facilities 0  
 Farm/Ranch land impacted (acres) 90 Roadway(s) impacted (length) 7  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

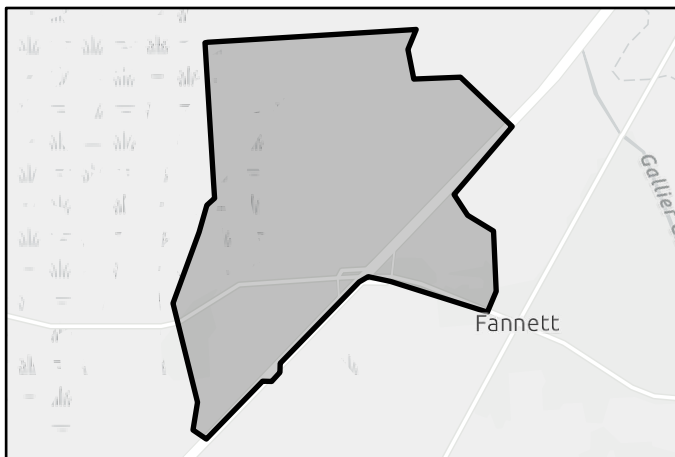
Population removed from 100-yr 64 # of structures removed from 100-yr 43  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 27  
 Road removed from 100-yr (miles) 3 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$7,779,088 % Nature-Based - BCR 0  
 Recurring costs \$12,000 Issues Project is located next to a concentration of residential buildings. Coordination is likely required with local residents for construction operations.



FMP area



Regional view of FMP area



# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Lucas/Delaware Diversion  
 ID# 053000017 Sponsor Jefferson County Drainage District 6  
 RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project includes storm sewer improvements that divert flow away from DD6 channels 100 and 122 to be redirected to instead flow to channel 010 near Charles Street before ultimately discharging into the Neches River.

Watershed HUC# (if known) 120200030405, 120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 9  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 14,543 # of structures 5,231 Critical facilities 27  
 Farm/Ranch land impacted (acres) 2 Roadway(s) impacted (length) 84  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

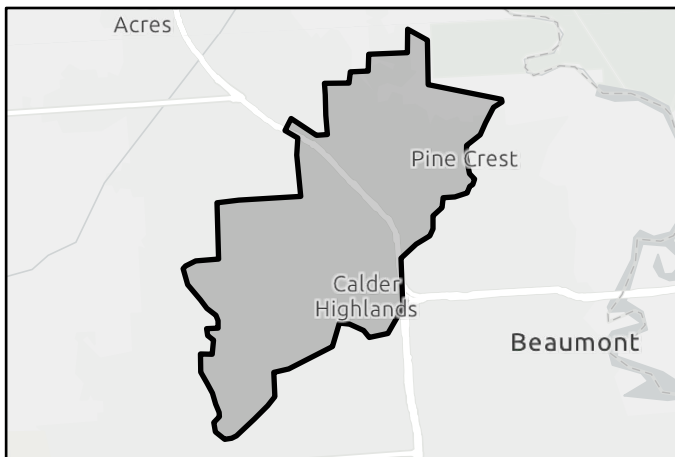
Population removed from 100-yr 2,845 # of structures removed from 100-yr 595  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 0  
 Road removed from 100-yr (miles) 5 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

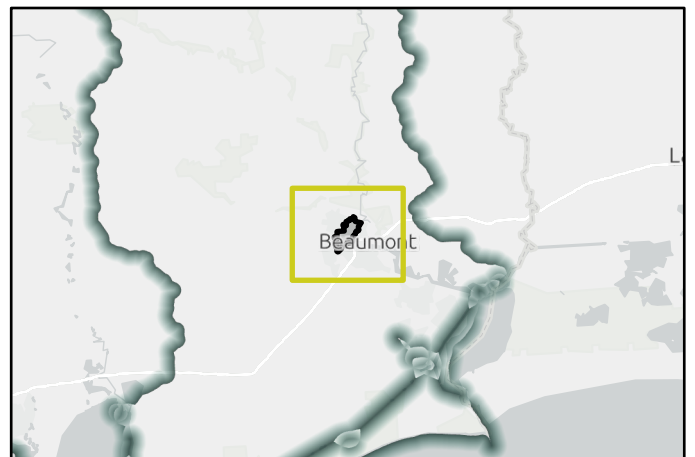
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$130,286,230 % Nature-Based - BCR 0  
 Recurring costs \$12,000  
 Issues There is a high density of development near the project location. Transportation to project site could be hampered and work may have to be done surveying land to prevent negatively impacting existing utilities.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title South Park Diversion

ID# 053000018 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project includes storm sewer improvements that divert flow away from DD6 channels 104 and 104-B to be redirected to the Neches River.

Watershed HUC# (if known) 120200030406, 120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 2  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 4,303 # of structures 1,367 Critical facilities 16  
 Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 21  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

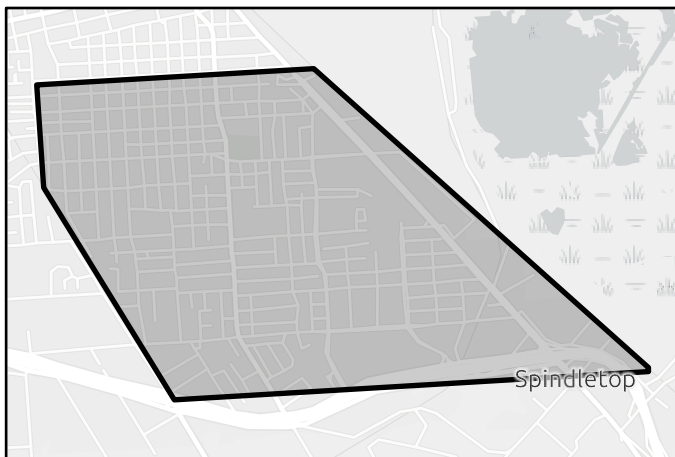
Population removed from 100-yr 1,225 # of structures removed from 100-yr 373  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 0  
 Road removed from 100-yr (miles) 4 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

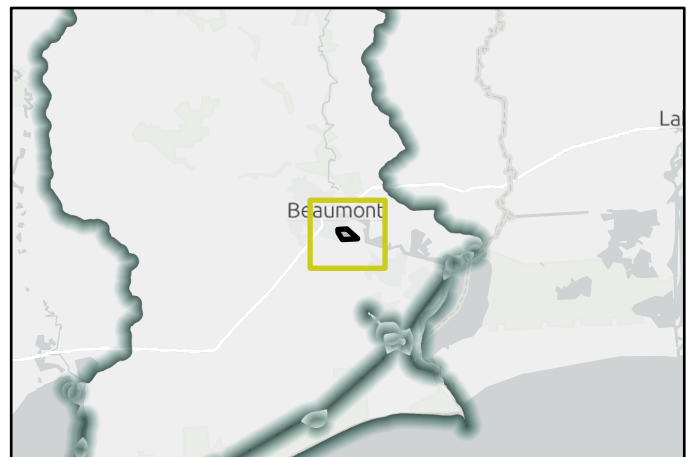
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$99,908,750 % Nature-Based - BCR 0  
 Recurring costs \$12,000  
 Issues There is a high density of development near the project location. Transportation to project site could be hampered and work may have to be done surveying land to prevent negatively impacting existing utilities.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title: Tevis Diversion  
 ID#: 053000019 Sponsor: Jefferson County Drainage District 6  
 RFPG recommend? Yes Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

This project includes storm sewer improvements that divert flow away from DD6 channel 115 to be redirected to the Neches River.

Watershed HUC# (if known): 120200030405, 120200030406, 12040201020 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.): 1  
 Associated FME's: 999999 County: Jefferson  
 Associated FMS's: 999999 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk: 6,744 # of structures: 712 Critical facilities: 15  
 Farm/Ranch land impacted (acres): 0 Roadway(s) impacted (length): 18  
 Number of low water crossings: 0 Historical road closures: 0

## 100-Year Flood Risk Reduction

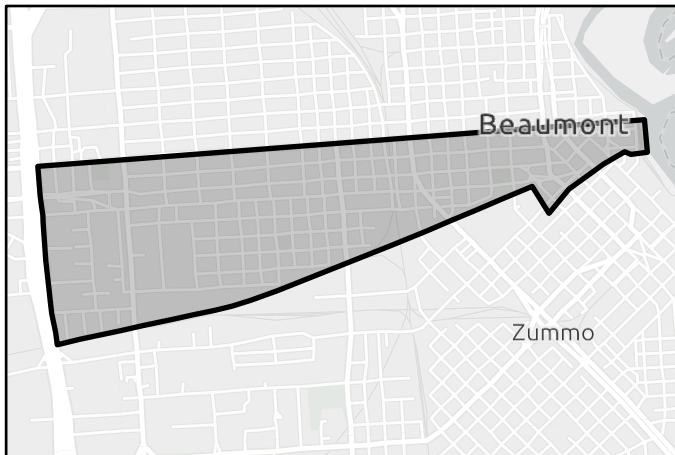
Population removed from 100-yr: 1,986 # of structures removed from 100-yr: 394  
 Critical facilities removed from 100-yr: 7 Farm/Ranch land removed from 100-yr (acres): 0  
 Road removed from 100-yr (miles): 5 Low water crossings removed from 100-yr: 0  
 Other benefits: N/A Reduction in # of road closures over 10 years: -

## Impacts

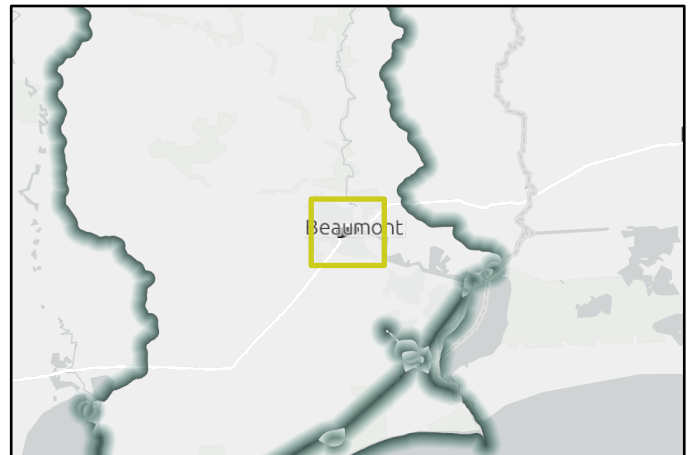
Negative impacts? No Negative impacts description: -  
 Water supply contributions? No Water supply contribution description: -

## Estimated Cost

Project Cost: \$97,327,200 % Nature-Based: - BCR: 0  
 Recurring costs: \$12,000  
 Issues: There is a high density of development near the project location. Transportation to project site could be hampered and work may have to be done surveying land to prevent negatively impacting existing utilities.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title: Blanchette Diversion  
 ID#: 053000020 Sponsor: Jefferson County Drainage District 6  
 RFPG recommend? Yes Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

The project proposes storm sewer improvements that divert flow away from existing channels to be redirected to the Neches River at a proposed outfall location near Blanchette Street.

Watershed HUC# (if known): 120200030406, 120402010200  
 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.): 2  
 Associated FME's: 999999 County: Jefferson  
 Associated FMS's: 999999 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk: 3,737 # of structures: 1,548 Critical facilities: 6  
 Farm/Ranch land impacted (acres): 0 Roadway(s) impacted (length): 38  
 Number of low water crossings: 0 Historical road closures: 0

## 100-Year Flood Risk Reduction

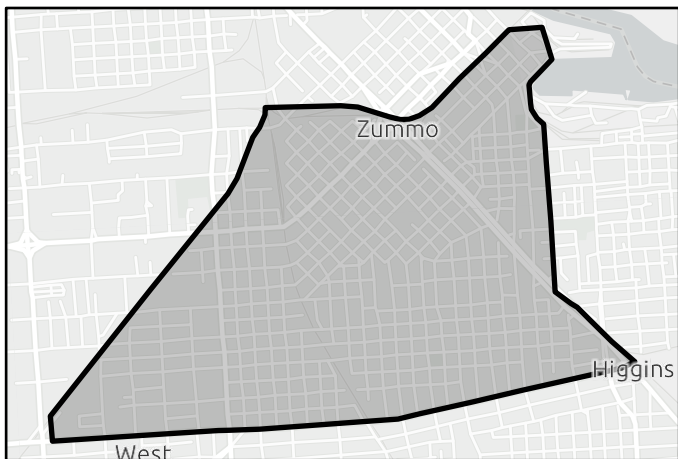
Population removed from 100-yr: 2,005 # of structures removed from 100-yr: 550  
 Critical facilities removed from 100-yr: 0 Farm/Ranch land removed from 100-yr (acres): 0  
 Road removed from 100-yr (miles): 11 Low water crossings removed from 100-yr: 0  
 Other benefits: N/A Reduction in # of road closures over 10 years: -

## Impacts

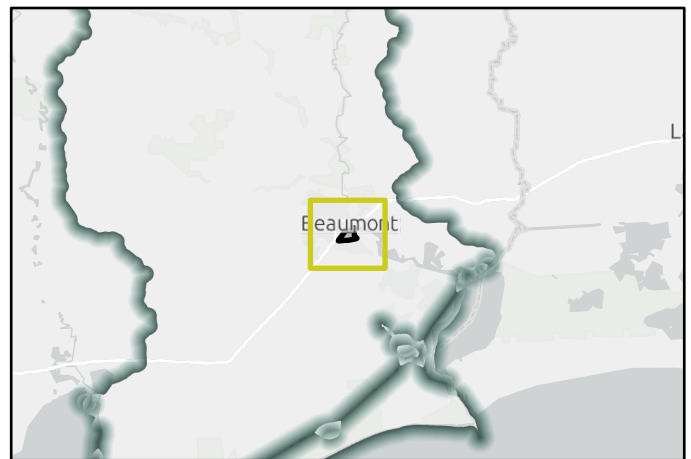
Negative impacts? No Negative impacts description: -  
 Water supply contributions? No Water supply contribution description: -

## Estimated Cost

Project Cost: \$99,173,000 % Nature-Based: - BCR: 1  
 Recurring costs: \$12,000  
 Issues: There is a high density of development near the project location. Transportation to project site could be hampered and work may have to be done surveying land to prevent negatively impacting existing utilities.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Tyrrell Park Detention  
 ID# 053000021 Sponsor Jefferson County Drainage District 6  
 RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project consists of installing eight new detention basins to increase capacity to existing storm sewer and provide storage during extreme rainfall events.

Watershed HUC# (if known) 120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 10  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 331 # of structures 283 Critical facilities 0  
 Farm/Ranch land impacted (acres) 77 Roadway(s) impacted (length) 6  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

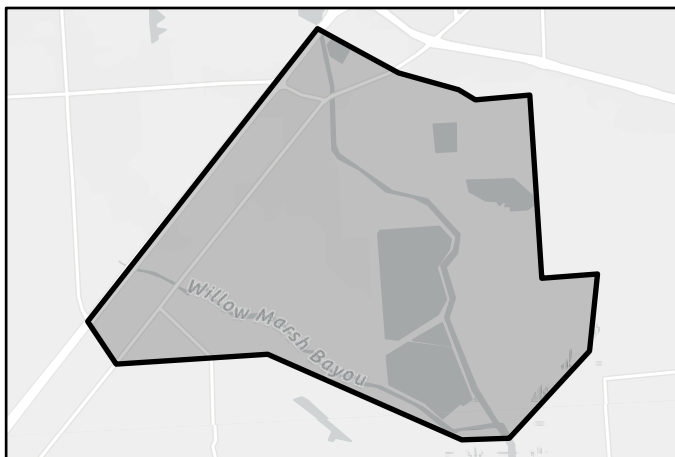
Population removed from 100-yr 331 # of structures removed from 100-yr 231  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 1  
 Road removed from 100-yr (miles) 4 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

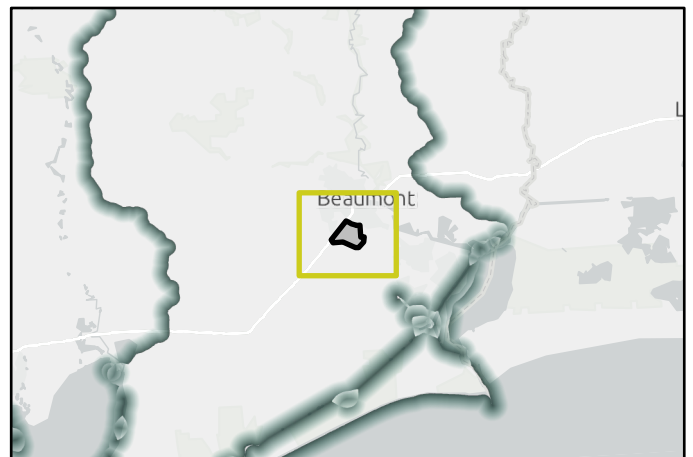
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$187,974,220 % Nature-Based - BCR 0  
 Recurring costs \$12,000  
 Issues The project area is located near a major highway that services traffic coming both in and out of the city of Beaumont. Coordination with TxDOT to prevent conflicts may be necessary.



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Virginia Street Detention

ID# 053000022 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project consists of storm sewer improvements and the construction of new detention ponds to provide increased capacity to the existing storm sewer system. Improvements primarily located at the southern edge of Beaumont near US-287 N.

Watershed HUC# (if known) 120402010200 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 1  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 1,138 # of structures 376 Critical facilities 0  
 Farm/Ranch land impacted (acres) 2 Roadway(s) impacted (length) 10  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

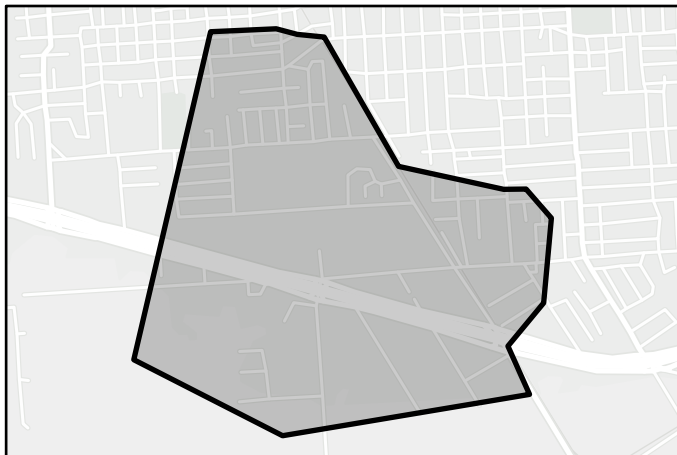
Population removed from 100-yr 689 # of structures removed from 100-yr 199  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 0  
 Road removed from 100-yr (miles) 3 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

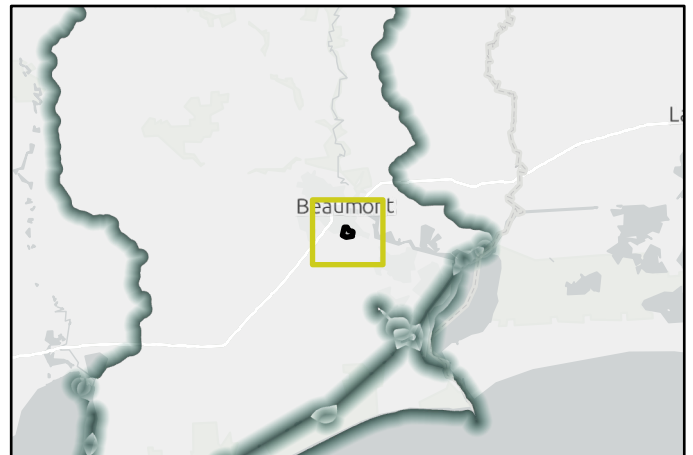
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$9,751,456 % Nature-Based - BCR 3  
 Recurring costs \$9,000 N/A Issues



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title Delaware Hillcorp Detent on Diversion

ID# 053000023 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

Construct two detention ponds near Delaware Street that outfall to DD6 Ditch 121 and Hillebrandt Bayou. Ponds to be accompanied by storm sewer improvements to aid in redirecting flow.

Watershed HUC# (if known) 120402010200 Emergency Need? Yes

Drainage area (mi<sup>2</sup> est.) 2

Associated FME's 999999 County Jefferson

Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type:	Riverine? Yes	Coastal? Yes	Local? Yes	Playa? No	Other? No
Population at risk	3,729	# of structures	1,496	Critical facilities	7
Farm/Ranch land impacted (acres)	1	Roadway(s) impacted (length)	27		
Number of low water crossings	0	Historical road closures	0		

## 100-Year Flood Risk Reduction

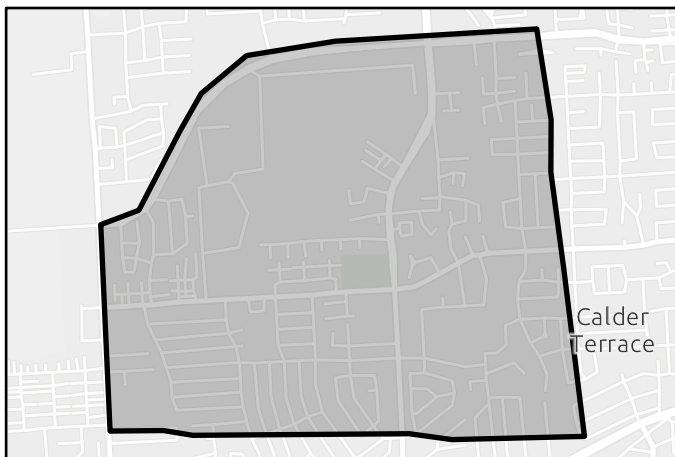
Population removed from 100-yr	681	# of structures removed from 100-yr	229
Critical facilities removed from 100-yr	0	Farm/Ranch land removed from 100-yr (acres)	0
Road removed from 100-yr (miles)	0	Low water crossings removed from 100-yr	0
Other benefits	N/A	Reduction in # of road closures over 10 years	-

## Impacts

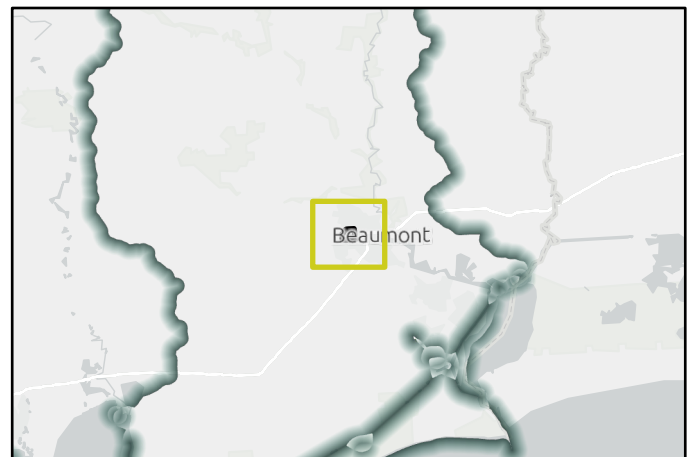
Negative impacts?	No	Negative impacts description	-
Water supply contributions? No		Water supply contribution description	-

## Estimated Cost

Project Cost	\$13,181,257	% Nature-Based	-	BCR	4
Recurring costs	\$12,000	Issues	There is a high density of development near the project location. Transportation to project site could be hampered and work may have to be done surveying land to prevent negatively impacting existing utilities.		



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title: Borley Heights Relief Project

ID#: 053000024 Sponsor: Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

The project consists of constructing three new crossings under the LNVA Canal, a diversion ditch on the west side of the canal, concrete-lined receiving ditches along the canal, and improvements to the existing Ditch 1002-B.

Watershed HUC# (if known): 120200070205 Emergency Need? Yes

Drainage area (mi<sup>2</sup> est.): 0

Associated FME's: 999999 County: Jefferson

Associated FMS's: 999999 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk: 296 # of structures: 172 Critical facilities: 0  
 Farm/Ranch land impacted (acres): 6 Roadway(s) impacted (length): 1  
 Number of low water crossings: 0 Historical road closures: 0

## 100-Year Flood Risk Reduction

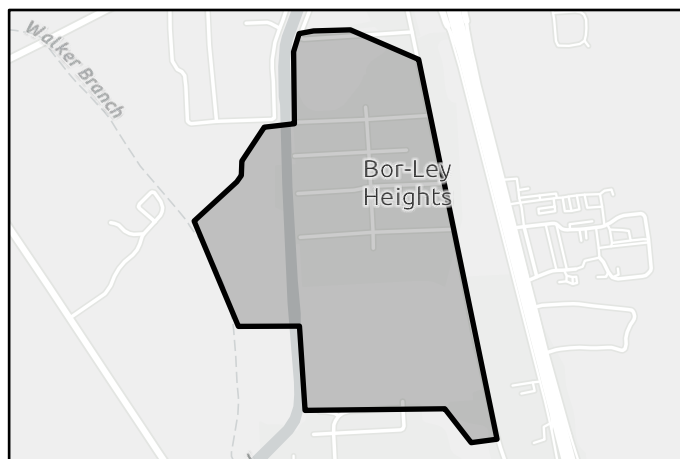
Population removed from 100-yr: 277 # of structures removed from 100-yr: 157  
 Critical facilities removed from 100-yr: 0 Farm/Ranch land removed from 100-yr (acres): 4  
 Road removed from 100-yr (miles): 1 Low water crossings removed from 100-yr: 0  
 Other benefits: N/A Reduction in # of road closures over 10 years: -

## Impacts

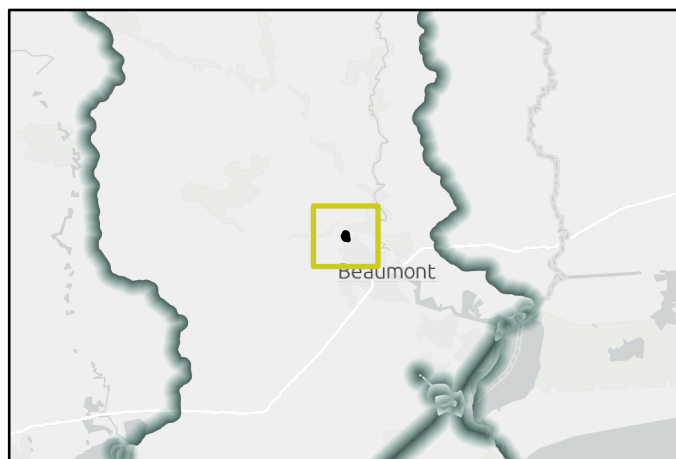
Negative impacts? No Negative impacts description: -  
 Water supply contributions? No Water supply contribution description: -

## Estimated Cost

Project Cost: \$4,577,210 % Nature-Based: - BCR: 2  
 Recurring costs: \$6,000 Issues: Project is located next to a concentration of residential buildings. Coordination is likely required with local residents for construction operations.



FMP area



Regional view of FMP area



# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title East China Relief Project

ID# 053000025 Sponsor Jefferson County Drainage District 6

RFPG recommend? Yes Reason for Recommendation Project in area of emergency need and complies with RFPG Goals

## Project Description

The project consists of constructing new linear detention upstream of the LNVA Canal, a concrete block-lined channel downstream of the canal crossing, and an adequate structure at Turner Road.

Watershed HUC# (if known) 120402010100 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.) 4  
 Associated FME's 999999 County Jefferson  
 Associated FMS's 999999 Associated FMP's 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk 352 # of structures 374 Critical facilities 0  
 Farm/Ranch land impacted (acres) 374 Roadway(s) impacted (length) 7  
 Number of low water crossings 0 Historical road closures 0

## 100-Year Flood Risk Reduction

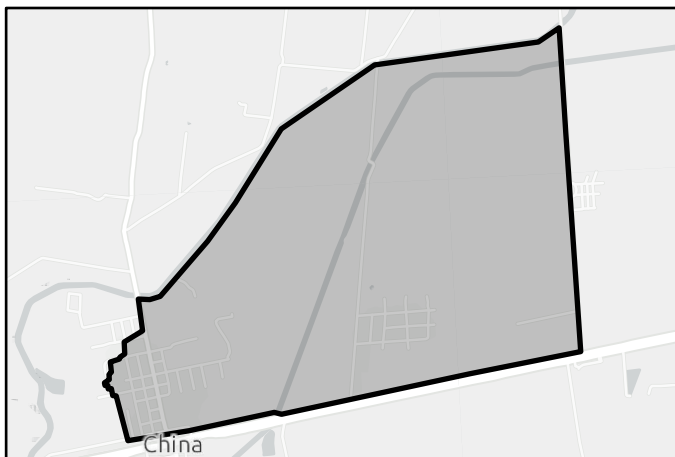
Population removed from 100-yr 21 # of structures removed from 100-yr 22  
 Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 17  
 Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0  
 Other benefits N/A Reduction in # of road closures over 10 years -

## Impacts

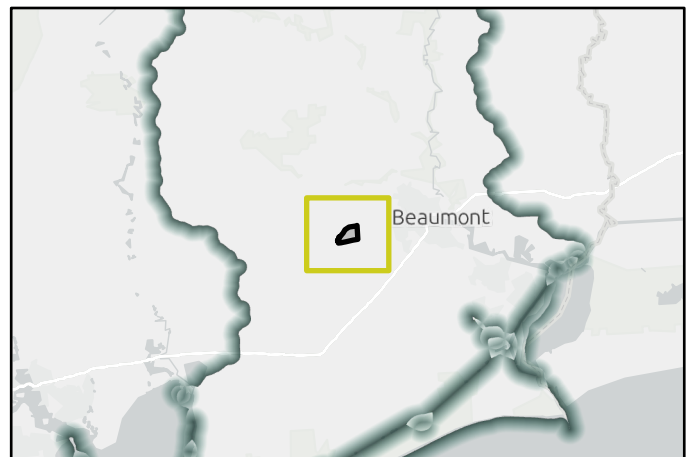
Negative impacts? No Negative impacts description -  
 Water supply contributions? No Water supply contribution description -

## Estimated Cost

Project Cost \$2,853,160 % Nature-Based - BCR 2  
 Recurring costs \$10,000 N/A Issues



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title: South Nome Relief Ditch  
 ID#: 053000026 Sponsor: Jefferson County Drainage District 6  
 RFPG recommend? Yes Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

The project consists of constructing storm sewer improvements and a detention basin to prevent stormwater runoff from backing up into Nome.

Watershed HUC# (if known): 120200070201, 120402010100  
 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.): 6  
 Associated FME's: 999999 County: Jefferson, Liberty  
 Associated FMS's: 999999 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? Yes Playa? No Other? No  
 Population at risk: 146 # of structures: 91 Critical facilities: 0  
 Farm/Ranch land impacted (acres): 1,183 Roadway(s) impacted (length): 5  
 Number of low water crossings: 0 Historical road closures: 0

## 100-Year Flood Risk Reduction

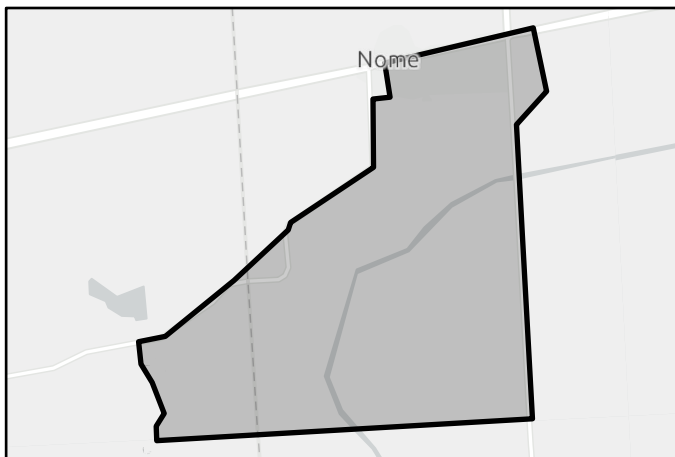
Population removed from 100-yr: 96 # of structures removed from 100-yr: 22  
 Critical facilities removed from 100-yr: 0 Farm/Ranch land removed from 100-yr (acres): 9  
 Road removed from 100-yr (miles): 1 Low water crossings removed from 100-yr: 0  
 Other benefits: N/A Reduction in # of road closures over 10 years: -

## Impacts

Negative impacts? No Negative impacts description: -  
 Water supply contributions? No Water supply contribution description: -

## Estimated Cost

Project Cost: \$2,286,770 % Nature-Based: - BCR: 1  
 Recurring costs: \$6,000 N/A Issues: -



FMP area



Regional view of FMP area

# Flood Mitigation Project (FMP)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title: Ditch 505 Detention  
 ID#: 053000027 Sponsor: Jefferson County Drainage District 6  
 Reason for Recommendation: Project in area of emergency need and complies with RFPG Goals

## Project Description

The project consists of constructing a detention pond near the intersection of IH-10 and Hwy 365 to the southwest of Beaumont.

Watershed HUC# (if known): 120402010100  
 Emergency Need? Yes  
 Drainage area (mi<sup>2</sup> est.): 3  
 Associated FME's: 999999  
 County: Jefferson  
 Associated FMS's: 999999  
 Associated FMP's: 999999

## Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? Yes Local? No Playa? No Other? No  
 Population at risk: 272 # of structures: 222 Critical facilities: 0  
 Farm/Ranch land impacted (acres): 26 Roadway(s) impacted (length): 6  
 Number of low water crossings: 0 Historical road closures: 0

## 100-Year Flood Risk Reduction

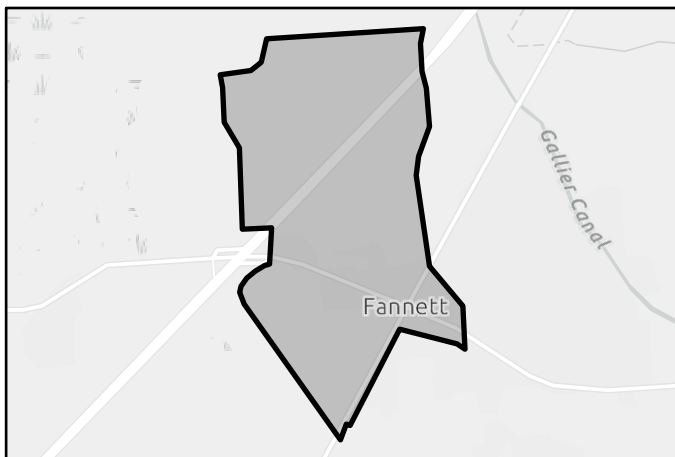
Population removed from 100-yr: 3 # of structures removed from 100-yr: 2  
 Critical facilities removed from 100-yr: 0 Farm/Ranch land removed from 100-yr (acres): 0  
 Road removed from 100-yr (miles): 0 Low water crossings removed from 100-yr: 0  
 Other benefits: N/A Reduction in # of road closures over 10 years: 0

## Impacts

Negative impacts? No Negative impacts description: -  
 Water supply contributions? No Water supply contribution description: -

## Estimated Cost

Project Cost: \$13,803,086 % Nature-Based: - BCR: 1  
 Recurring costs: \$23,000  
 Issues: Project is located next to a concentration of existing development and is adjacent to a major highway. Coordination will likely be required with multiple agencies for construction operations.



FMP area



Regional view of FMP area