

VOLUME 2
Appendix 5-C

FINAL

REGION 5 NECHES 2023 REGIONAL FLOOD PLAN

JANUARY 2023

DRAFT

PREPARED FOR THE
REGION 5 NECHES FLOOD PLANNING GROUP

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

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title City of Diboll Ordinance and Regulation Update

ID# 052000061 Sponsor Diboll (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

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(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 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 -

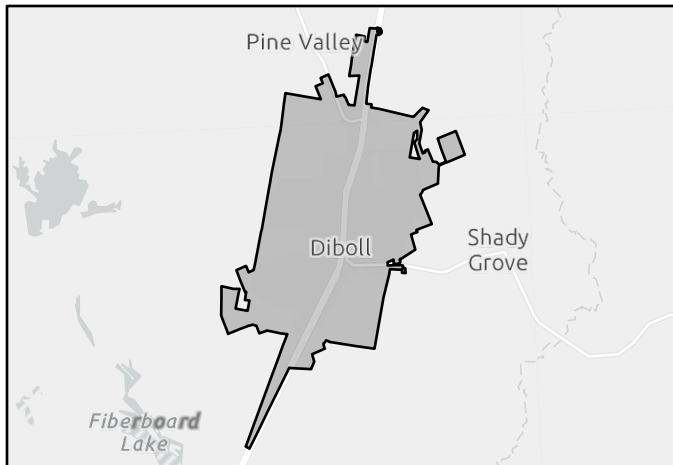
Impacts

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

NECHES

REGIONAL FLOOD PLANNING GROUP

Title City of Cuney Bridge and Culvert Inspection Program

ID# 052000062 Sponsor Cuney (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

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(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: 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 -

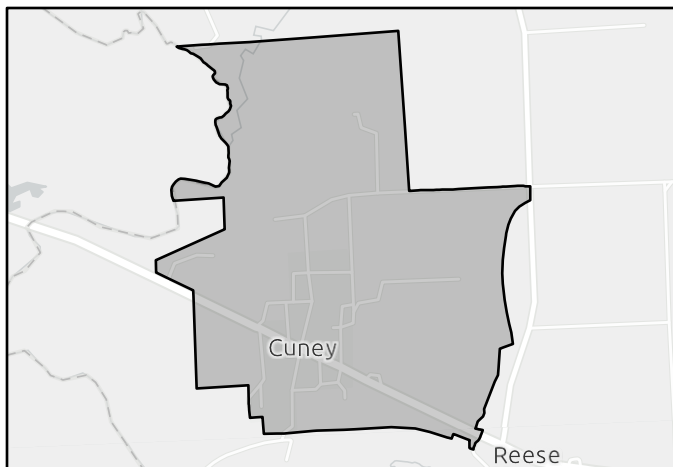
Impacts

Negative impacts? No Negative impacts description -

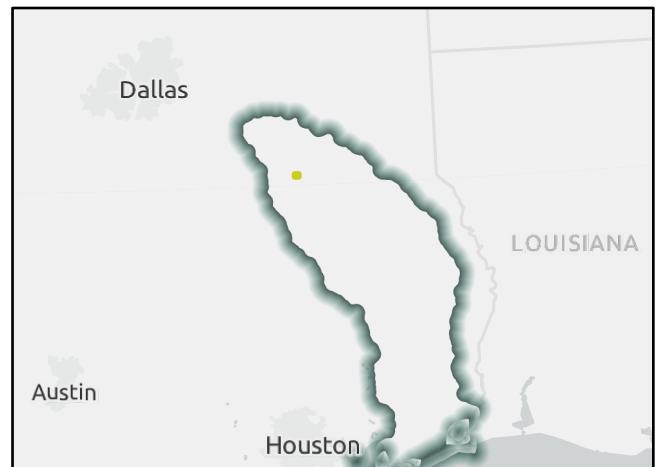
Water supply contributions? No Water supply contribution description -

Estimated Cost

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



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Cuney Seek NFIP Participation

ID#052000063SponsorCuney (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyCherokee

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

Goal(s)

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 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 risk0# of structures0Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

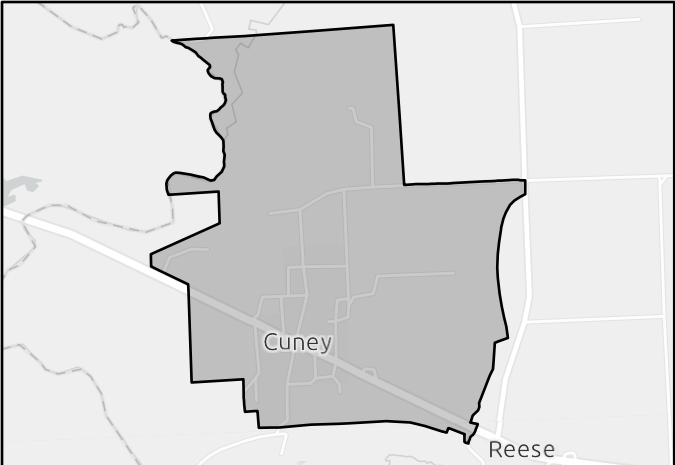
Impacts

Negative impacts?NoNegative impacts description-

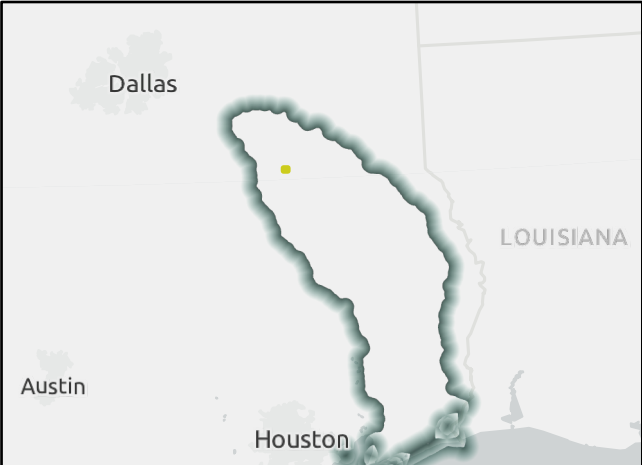
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$5,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Gallatin Multi-Jurisdiction Coordination

ID#052000064SponsorGallatin (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyCherokee

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

Goal(s)

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 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 risk0# of structures2Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?No

Farm/Ranch land impacted (acres)60Roadway(s) impacted (miles)1

Number of low water crossings0Historical road closures0

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 -

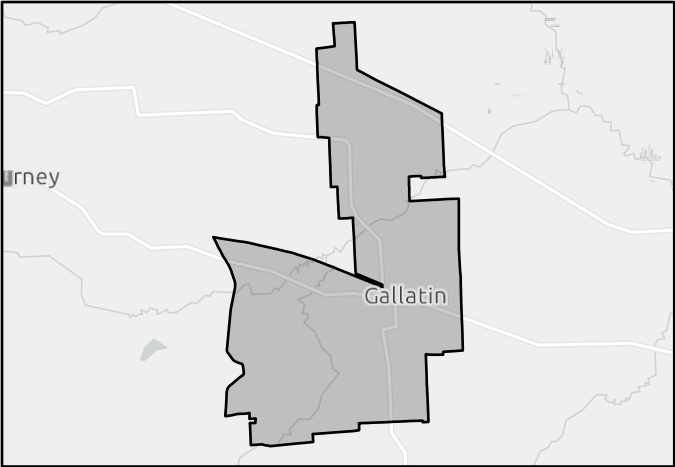
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$5,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Jacksonville Multi-Jurisdiction Coordination

ID#052000065SponsorJacksonville (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyCherokee

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

Goal(s)

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 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 risk606# of structures192Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?No

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

Number of low water crossings7Historical road closures7

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?NoNegative impacts description-

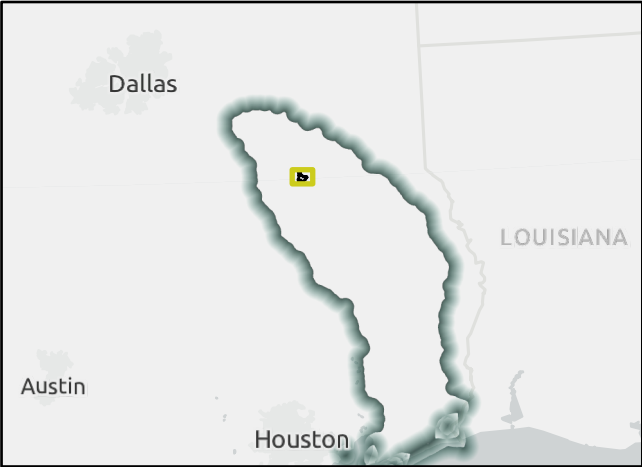
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$10,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Reklaw Improved Enforcement of Ordinances

ID#052000066SponsorReklaw (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyCherokee

Strategy descriptionImprove 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(s)

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 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 risk0# of structures1Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

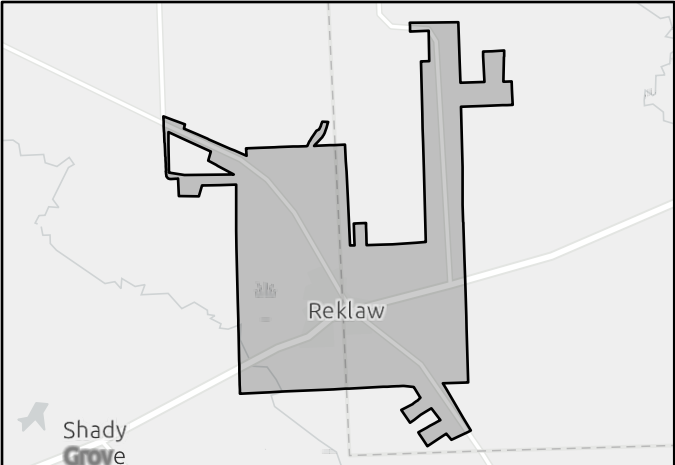
Impacts

Negative impacts?NoNegative impacts description-

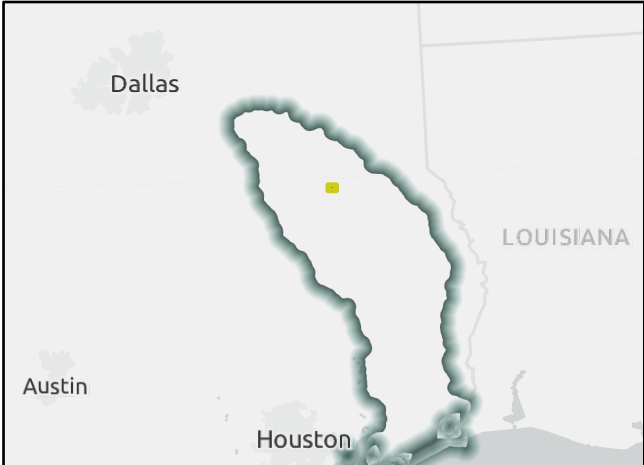
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$10,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Rusk Flood Maps Maintenance and Update

ID#052000067SponsorRusk (Municipality)

RFPG recommend? YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyCherokee

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

Goal(s)

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 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 risk462# of structures41Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

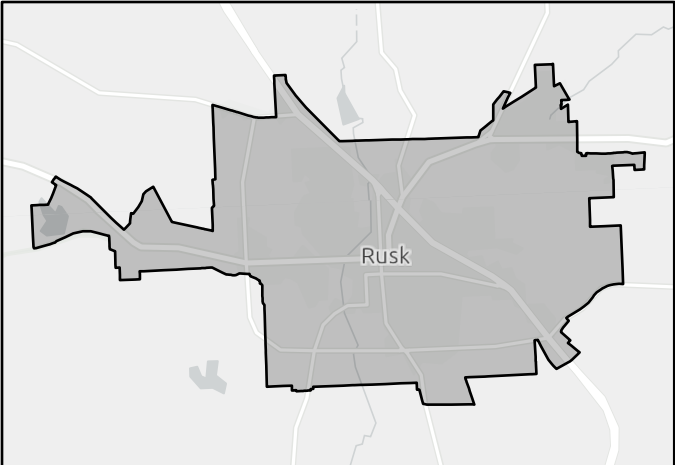
Impacts

Negative impacts?NoNegative impacts description-

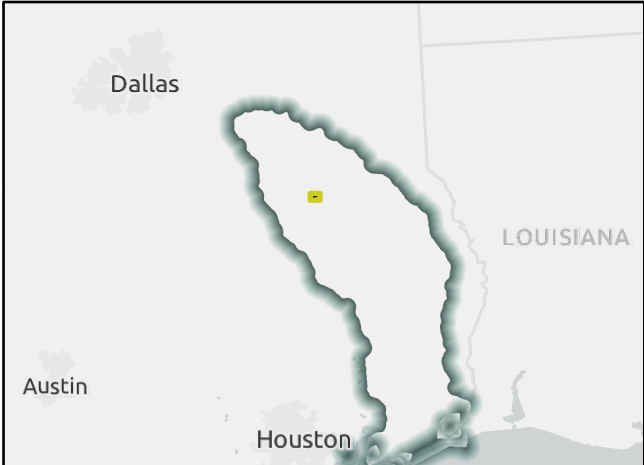
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$10,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleHardin County Continued NFIP Participation

ID#052000068SponsorHardin (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyHardin

Strategy descriptionContinue 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(s)

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 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 risk10,528# of structures3,678Critical facilities25

Flood risk type:

Riverine?Yes

Coastal?No

Local?No

Playa?No

Other?Yes

Farm/Ranch land impacted (acres)743Roadway(s) impacted (miles)136

Number of low water crossings13Historical road closures13

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 -

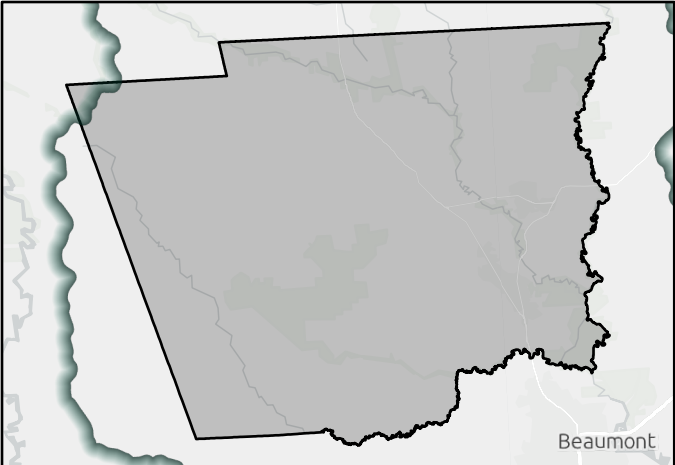
Impacts

Negative impacts?NoNegative impacts description-

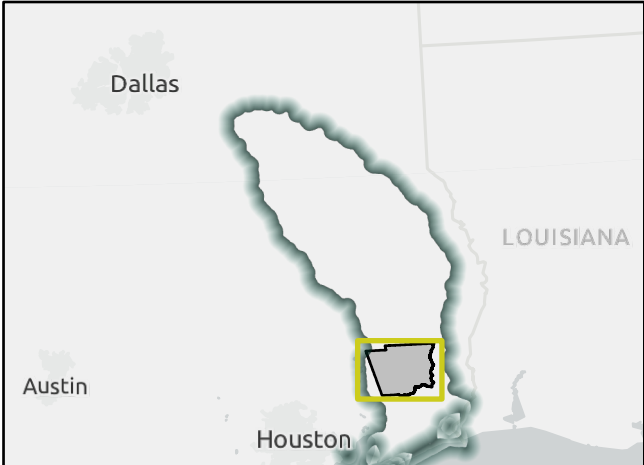
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$80,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleHardin County Drainage District

ID#052000069SponsorHardin (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyHardin

Strategy descriptionForm Drainage District: Purpose would be to oversee/ maintain, and construct required drainage projects for the County. Regulate stormwater mitigation for new and future developments.

Goal(s)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 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 risk10,528# of structures3,678Critical facilities25

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)743Roadway(s) impacted (miles)136

Number of low water crossings13Historical road closures13

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 -

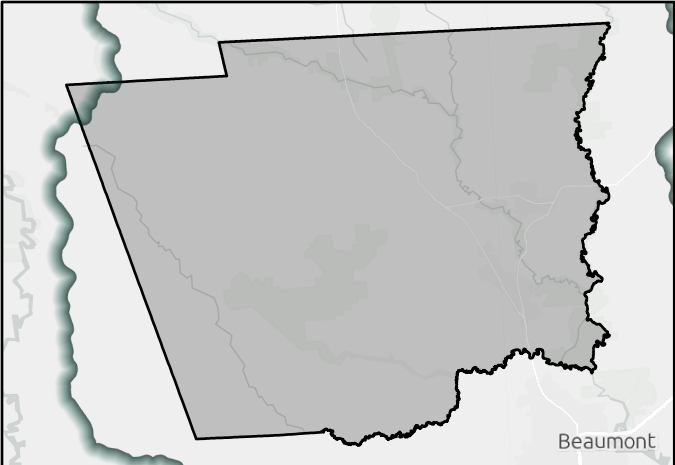
Impacts

Negative impacts?NoNegative impacts description-

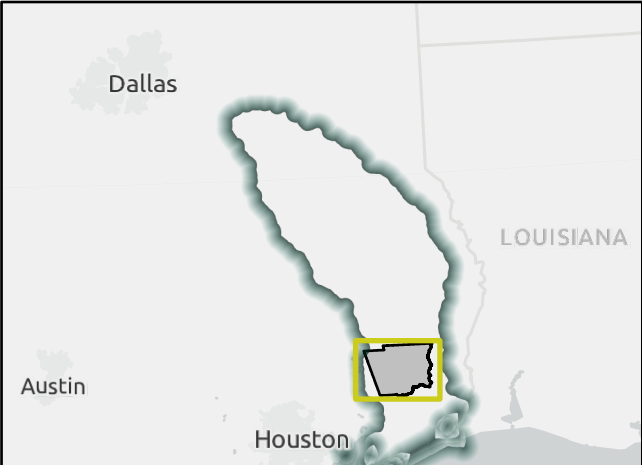
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$900,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title City of Kountze Continued NFIP Participation

ID# 052000070 Sponsor Kountze (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

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 -

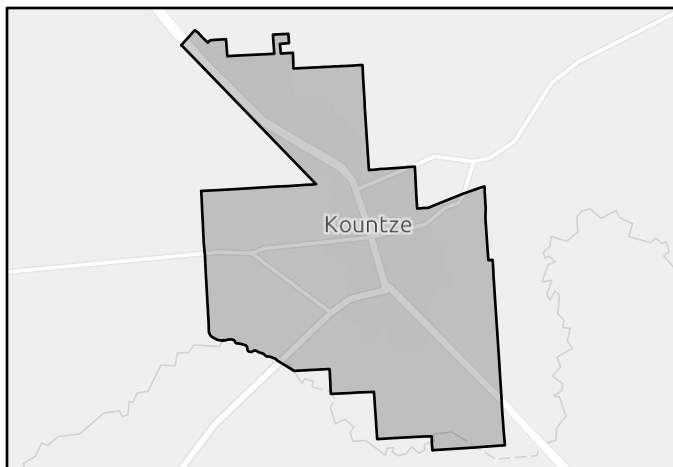
Impacts

Negative impacts? No Negative impacts description -

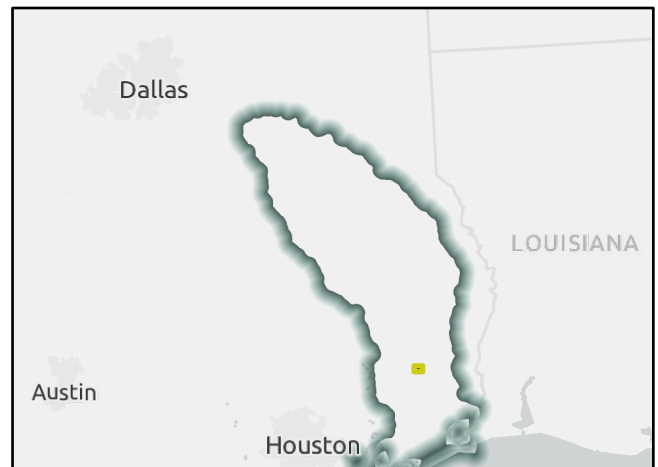
Water supply contributions? No Water supply contribution description -

Estimated Cost

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



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Lumberton Continued NFIP Participation

ID#052000071SponsorLumberton (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyHardin

Strategy descriptionContinue 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(s)

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 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 risk658# of structures235Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?No

Playa?No

Other?Yes

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

Number of low water crossings1Historical road closures1

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 -

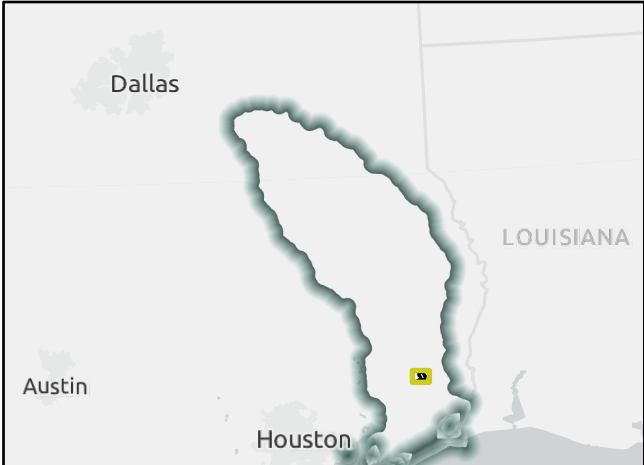
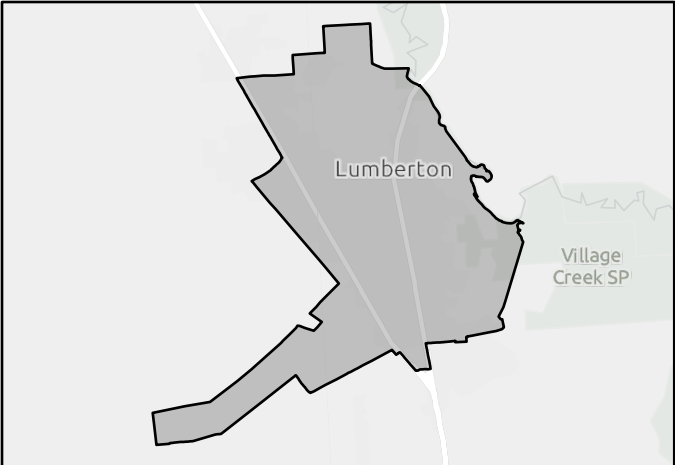
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$80,000Amount of available funding-% Nature-Based0



TitleCity of Rose Hill Acres Continued NFIP Participation

ID#052000072SponsorRose Hill Acres (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyHardin

Strategy descriptionContinue 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(s)

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 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 risk278# of structures134Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?No

Playa?No

Other?No

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

Number of low water crossings0Historical road closures0

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 -

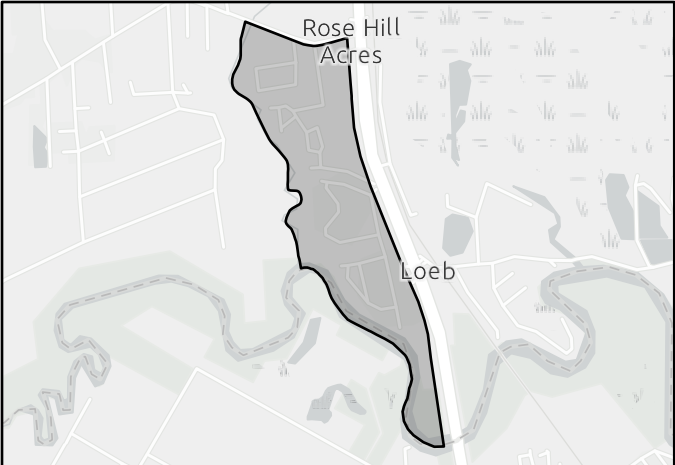
Impacts

Negative impacts?NoNegative impacts description-

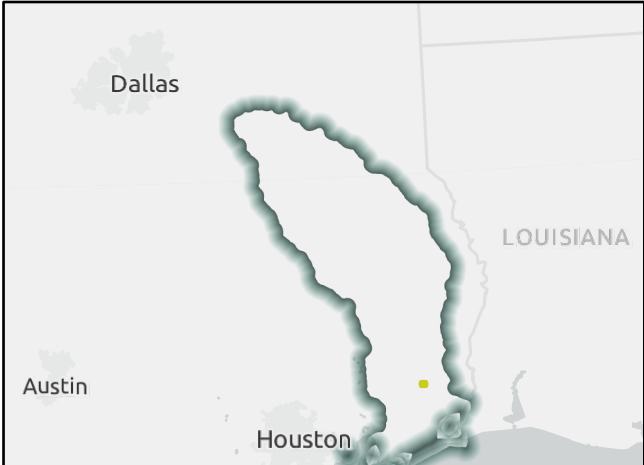
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$80,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Silsbee Continued NFIP Participation

ID#052000073SponsorSilsbee (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyHardin

Strategy descriptionContinue 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(s)

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 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 risk780# of structures87Critical facilities2

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings3Historical road closures3

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-

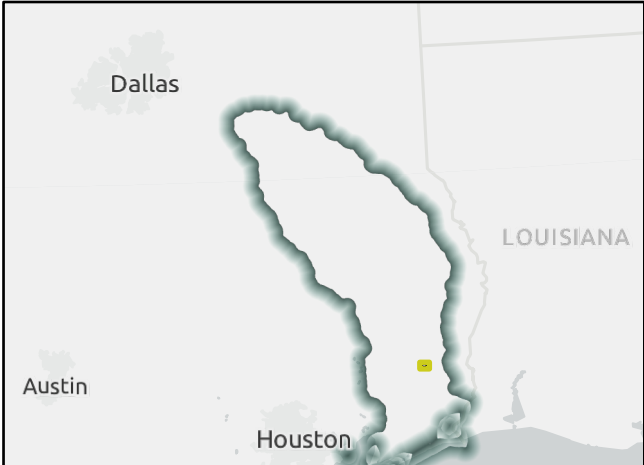
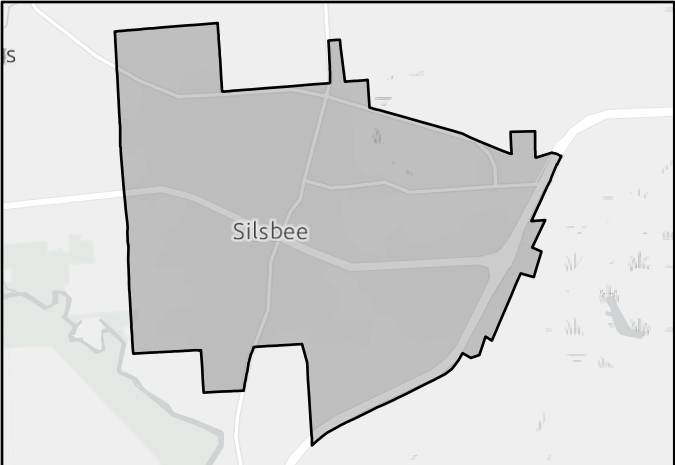
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$50,000Amount of available funding-% Nature-Based0



TitleCity of Sour Lake Continued NFIP Participation

ID#052000074SponsorSour Lake (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyHardin

Strategy descriptionContinue 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(s)

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 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 risk1,687# of structures435Critical facilities7

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)7Roadway(s) impacted (miles)8

Number of low water crossings3Historical road closures3

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-

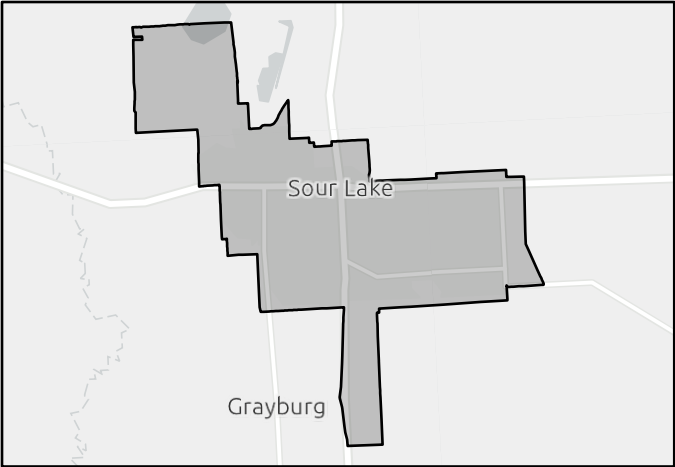
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$60,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleHouston County Mobile Home Inspection

ID#052000075SponsorHouston (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyHouston

Strategy descriptionConduct routine inspection of manufactured home/mobile homes in flood-prone area to ensure proper tie-downs per Flood Damage Ordinance.

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 risk16# of structures17Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)117Roadway(s) impacted (miles)20

Number of low water crossings7Historical road closures7

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-

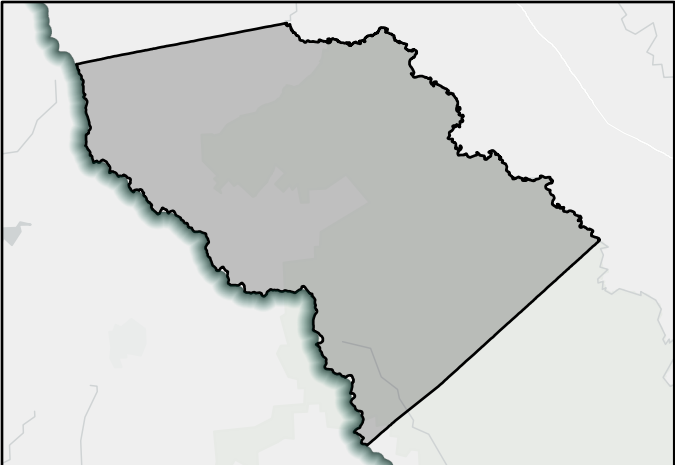
Impacts

Negative impacts?NoNegative impacts description-

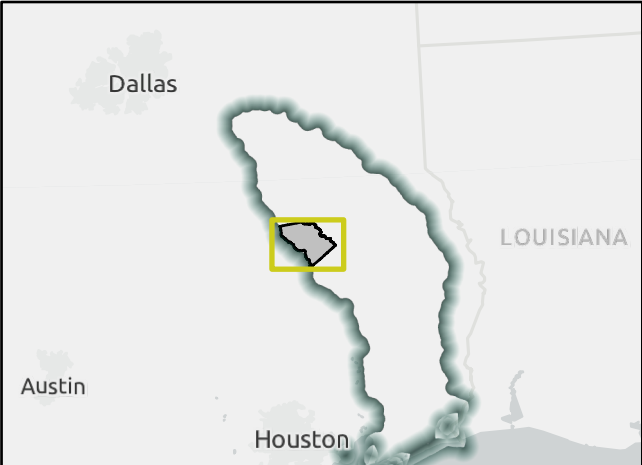
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$61,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleJCDD6 Multi-Jurisdiction Coordination

ID#052000076SponsorJefferson County Drainage District 6

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyJefferson

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

Goal(s)

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 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 risk20,772# of structures6,491Critical facilities30

Flood risk type:

Riverine?Yes

Coastal?Yes

Local?No

Playa?No

Other?Yes

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

Number of low water crossings16Historical road closures16

100-Year Flood Risk Reduction

Population removed from 100-yr286# of structures removed from 100-yr101

Critical facilities removed from 100-yr4Farm/Ranch land removed from 100-yr (acres)45

Road removed from 100-yr (miles)0Low water crossings removed from 100-yr0

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

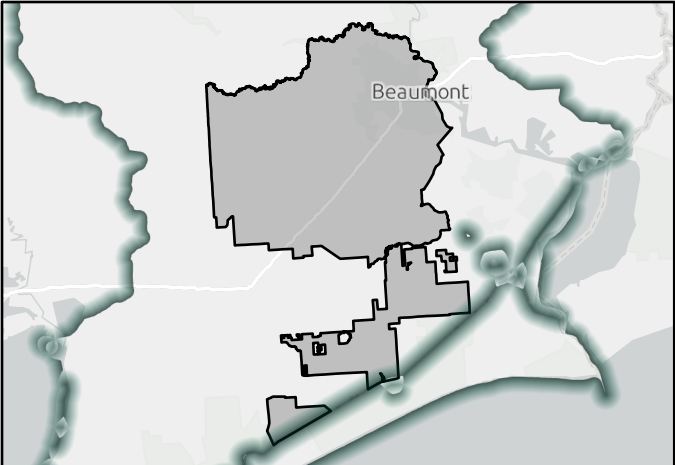
Impacts

Negative impacts?NoNegative impacts description-

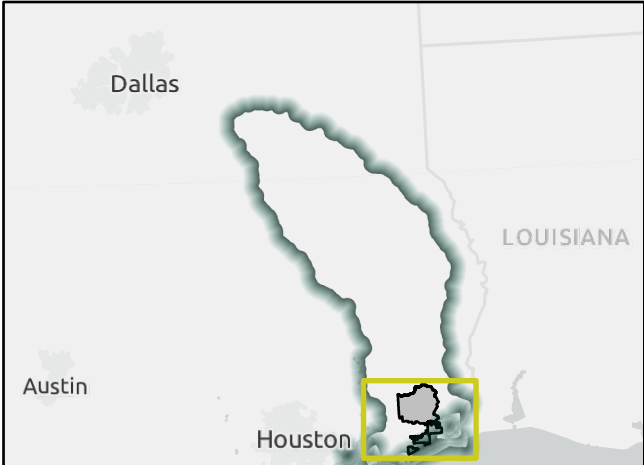
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$20,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleJCDD6 Severe Weather Action Plan

ID#052000077SponsorJefferson County Drainage District 6

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyJefferson

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

Goal(s)

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 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 risk20,772# of structures6,491Critical facilities30

Flood risk type:

Riverine?Yes

Coastal?Yes

Local?No

Playa?No

Other?Yes

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

Number of low water crossings16Historical road closures16

100-Year Flood Risk Reduction

Population removed from 100-yr286# of structures removed from 100-yr101

Critical facilities removed from 100-yr4Farm/Ranch land removed from 100-yr (acres)45

Road removed from 100-yr (miles)0Low water crossings removed from 100-yr0

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

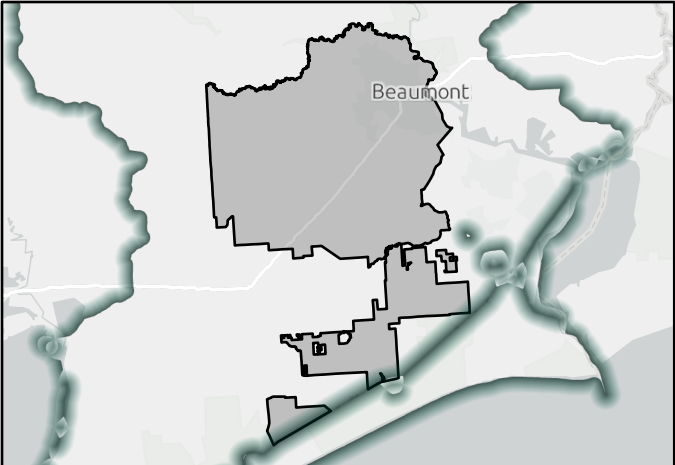
Impacts

Negative impacts?NoNegative impacts description-

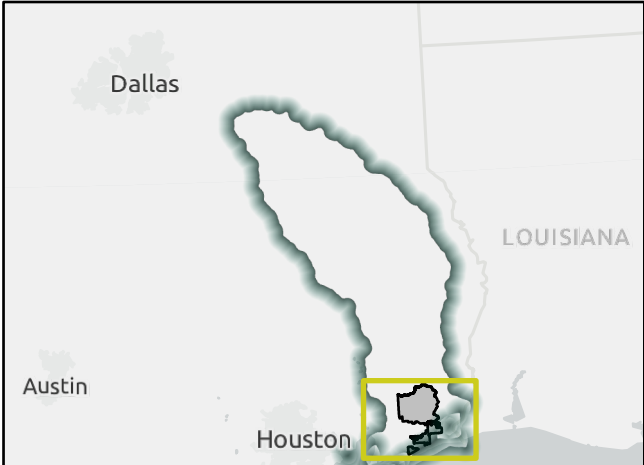
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$60,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleJCDD7 Storm Water Management Plan

ID#052000078SponsorJefferson County Drainage District 7

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyJefferson

Strategy descriptionHelp to establish and allow District to enforce development regulations within existing flood zones.

- 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 risk17,575# of structures4,705Critical facilities82

Flood risk type:Riverine?YesCoastal?YesLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)876Roadway(s) impacted (miles)95

Number of low water crossings3Historical road closures3

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-

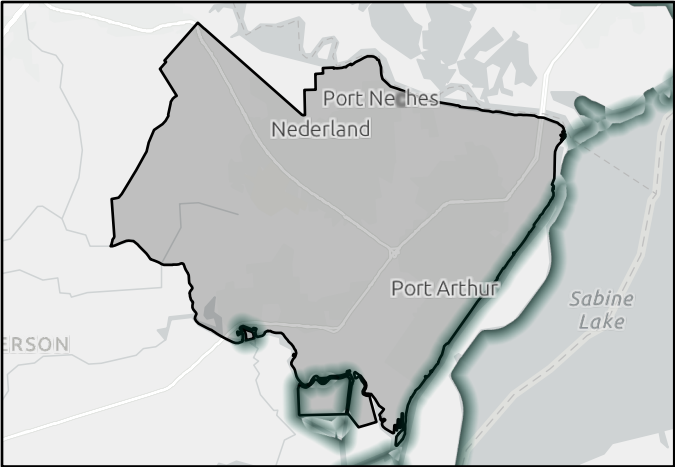
Impacts

Negative impacts?NoNegative impacts description-

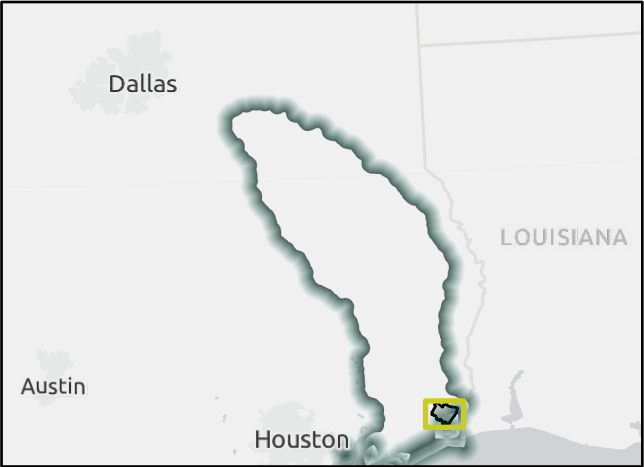
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$50,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Daisetta Property Construction Ordinance

ID#052000079SponsorDaisetta (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyLiberty

Strategy descriptionThe city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain.

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 risk0# of structures0Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings0Historical road closures0

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-

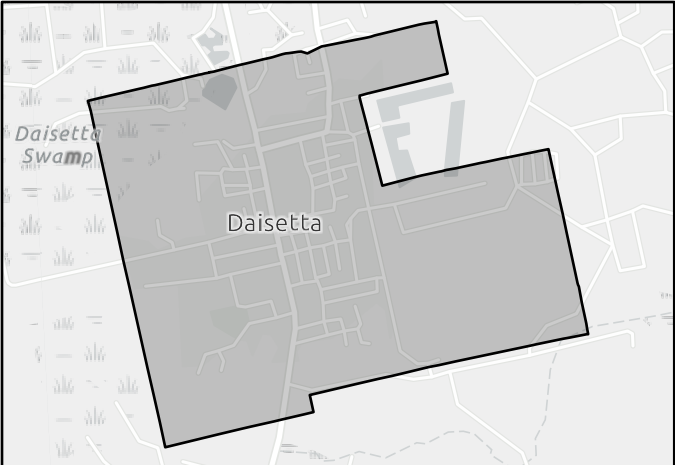
Impacts

Negative impacts?NoNegative impacts description-

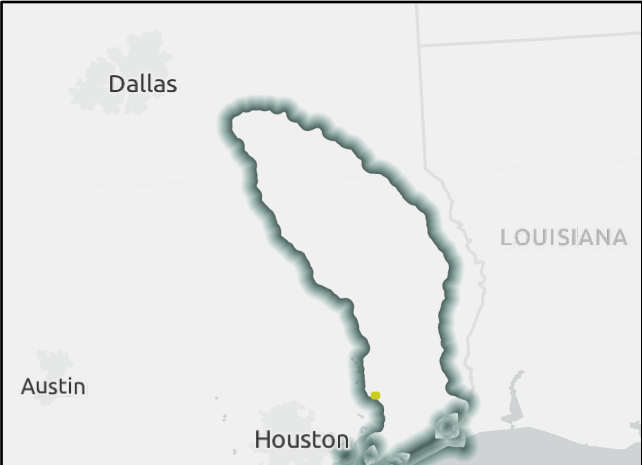
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$10,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

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(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	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

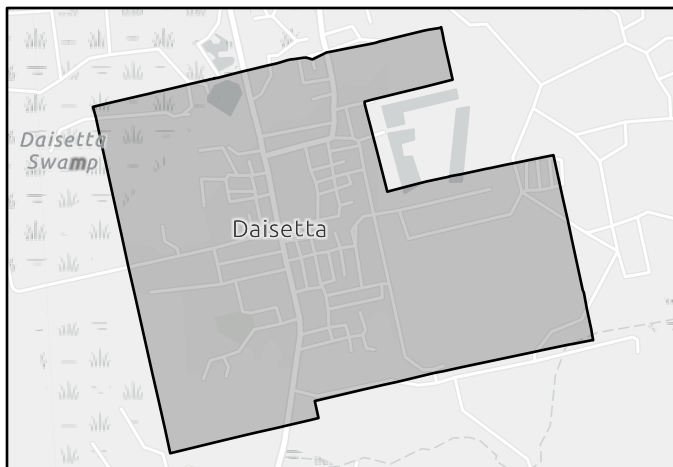
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

Impacts

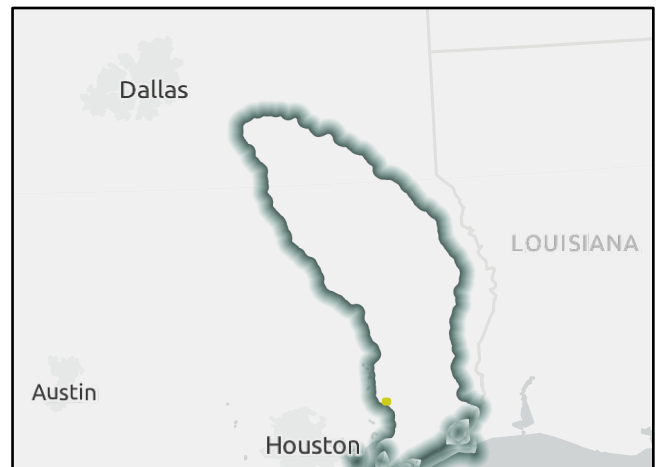
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

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

NECHES

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(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 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 -

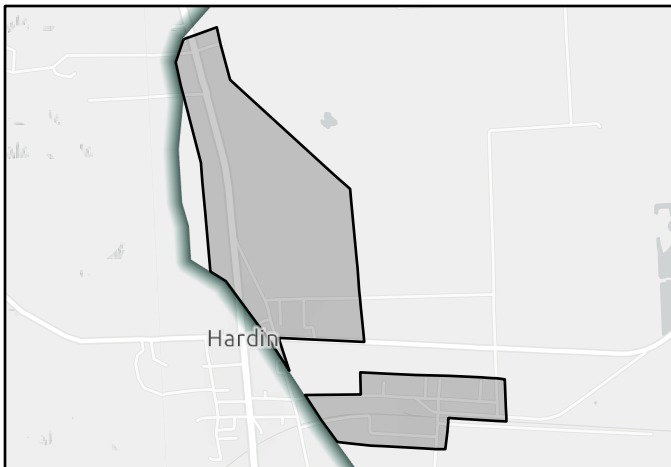
Impacts

Negative impacts? No Negative impacts description -

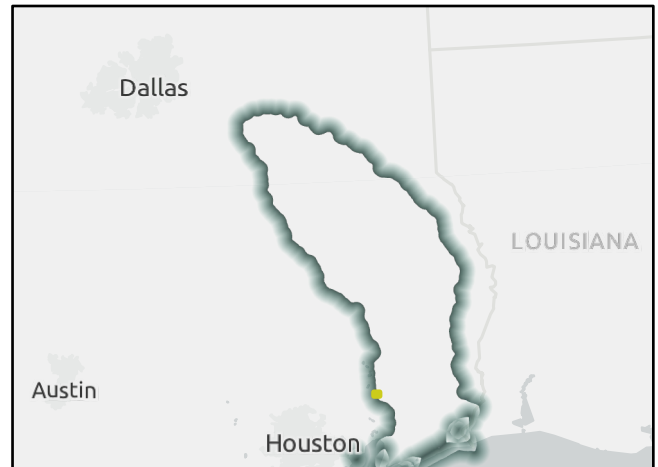
Water supply contributions? No Water supply contribution description -

Estimated Cost

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



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Nacogdoches Stormwater Drainage Fee Implementation

ID#052000082SponsorNacogdoches (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyNacogdoches

Strategy descriptionImplement stormwater drainage fee to assist funding of flood mitigation infrastructure projects

Goal(s)

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

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 risk5,331# of structures446Critical facilities1

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$40,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Nacogdoches Codes and Ordinances Update

ID#052000083SponsorNacogdoches (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyNacogdoches

Strategy descriptionReview 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(s)

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 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 risk5,331# of structures446Critical facilities1

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

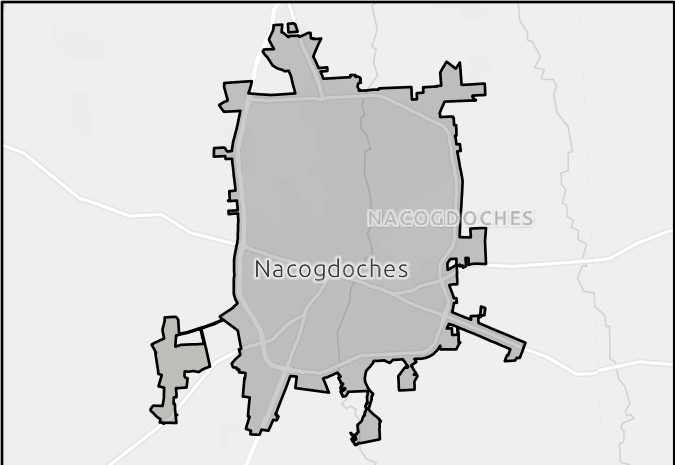
Impacts

Negative impacts?NoNegative impacts description-

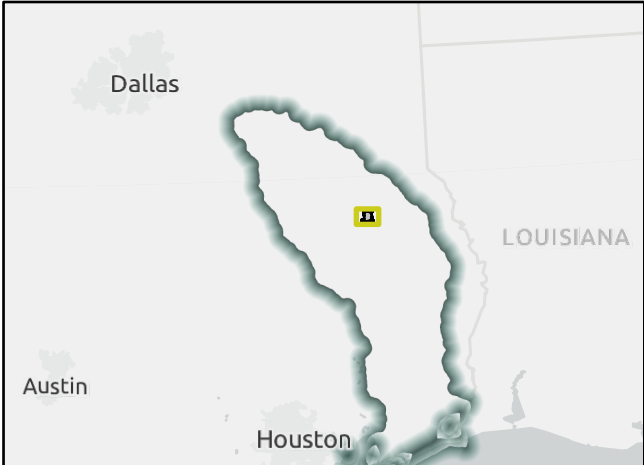
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$30,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleOCDD Drainage Criteria Manual and Regulations Enforcement

ID#052000084SponsorOrange County Drainage District

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyOrange

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

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 risk11,929# of structures5,007Critical facilities36

Flood risk type:

Riverine?Yes

Coastal?Yes

Local?No

Playa?No

Other?Yes

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

Number of low water crossings20Historical road closures20

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 -

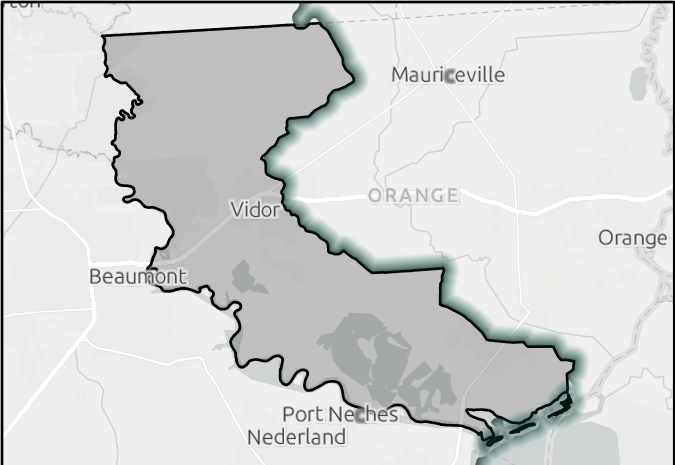
Impacts

Negative impacts?NoNegative impacts description-

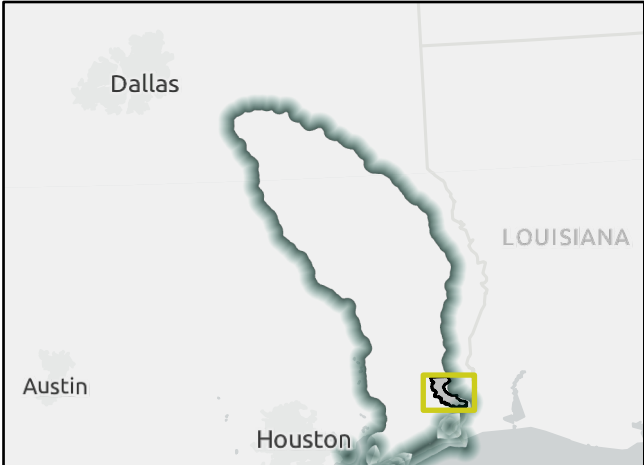
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$20,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleOCDD Support/Create Stricter Floodplain Ordinances

ID#052000085SponsorOrange County Drainage District

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyOrange

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

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 risk11,929# of structures5,007Critical facilities36

Flood risk type:Riverine?YesCoastal?YesLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings20Historical road closures20

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-

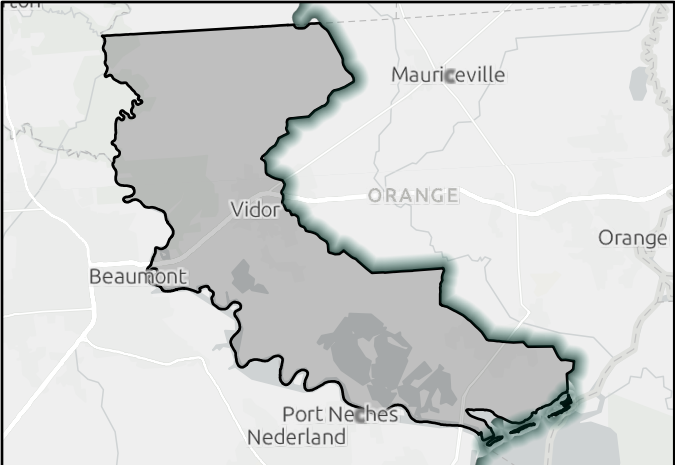
Impacts

Negative impacts?NoNegative impacts description-

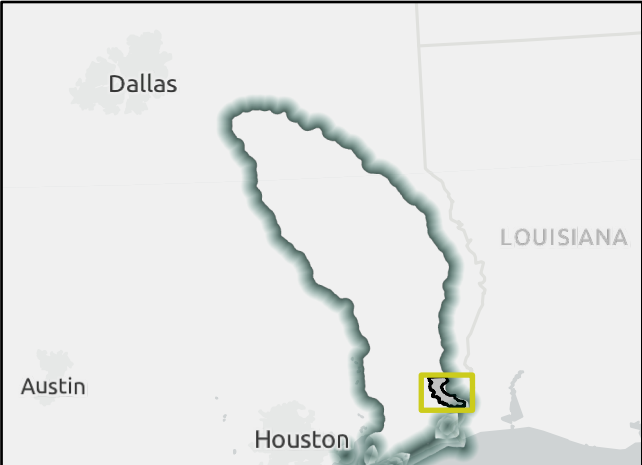
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$40,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleSan Augustine County Continue NFIP Participation

ID#052000086SponsorSan Augustine (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountySan Augustine

Strategy descriptionContinue participation in the National Flood Insurance Program (NFIP) and expand administration and monitoring capabilities

Goal(s)

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 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 risk146# of structures64Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?No

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

Number of low water crossings2Historical road closures2

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 -

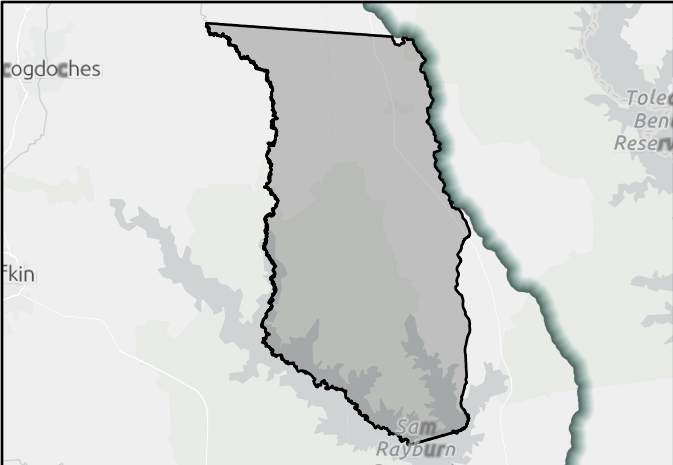
Impacts

Negative impacts?NoNegative impacts description-

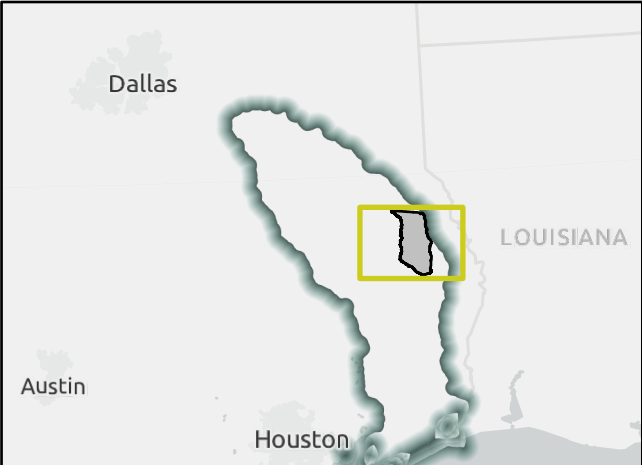
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$53,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Linsdale Natural Runoff Policies Implementation

ID#052000087SponsorLindale (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountySmith

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

Goal(s)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 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 risk69# of structures17Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

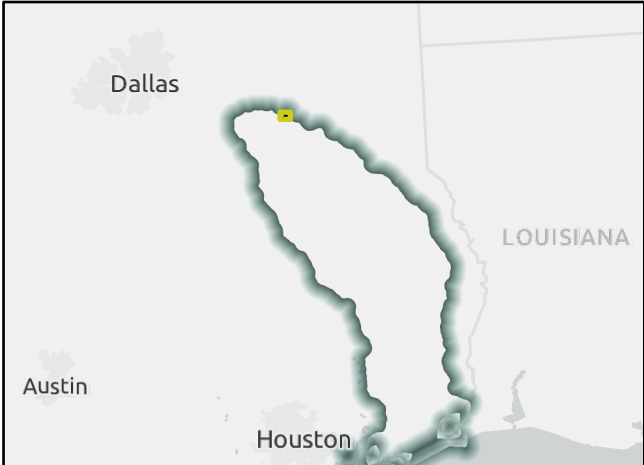
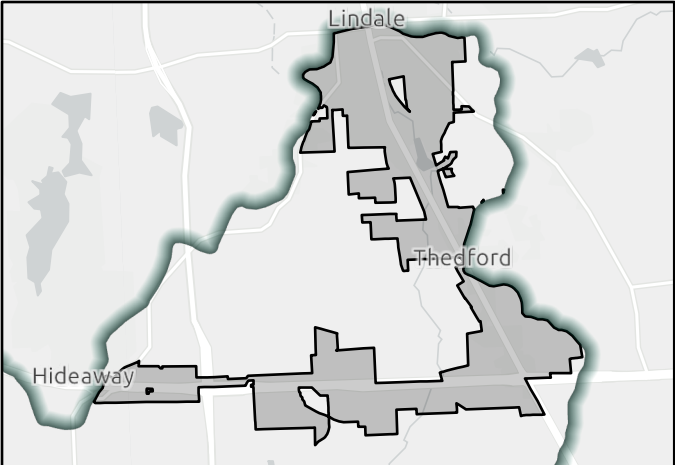
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$30,000Amount of available funding-% Nature-Based100



Flood Management Strategy (FMS)

TitleCity of Linsdale No Adverse Impact Implementation

ID#052000088SponsorLindale (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountySmith

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

Goal(s)

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 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 risk69# of structures17Critical facilities0

Flood risk type:

Riverine?

Yes

Coastal?

No

Local?

Yes

Playa?

No

Other?

No

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

Number of low water crossings0Historical road closures0

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 -

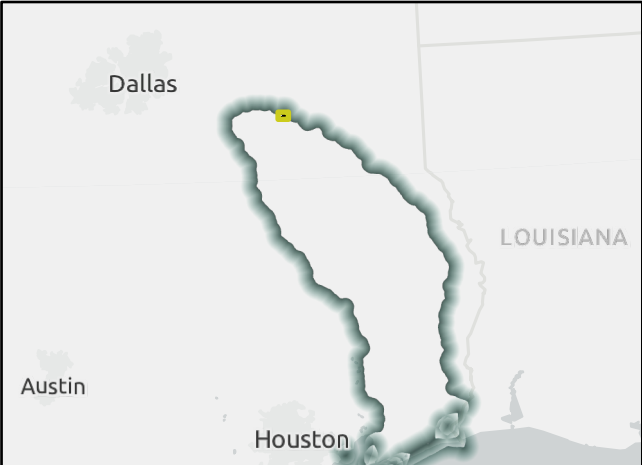
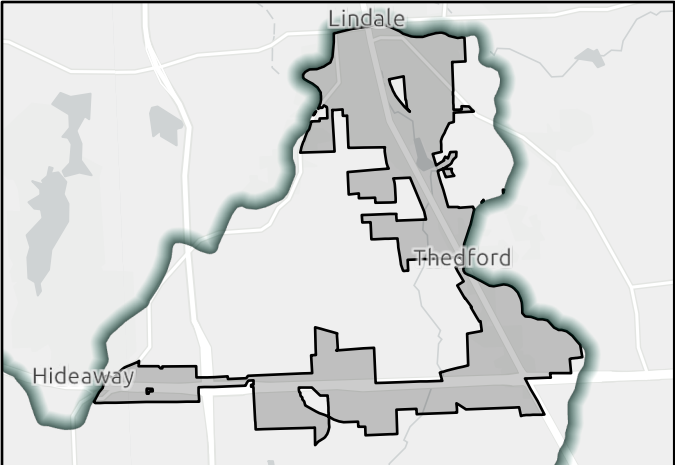
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$60,000Amount of available funding-% Nature-Based0



TitleCity of Troup Floodplain Ordinance Update

ID#052000089SponsorTroup (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountySmith

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

Goal(s)

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 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 risk17# of structures1Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

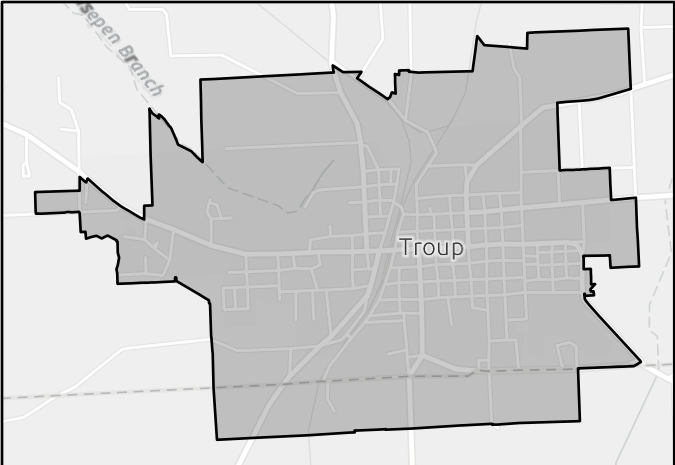
Impacts

Negative impacts?NoNegative impacts description-

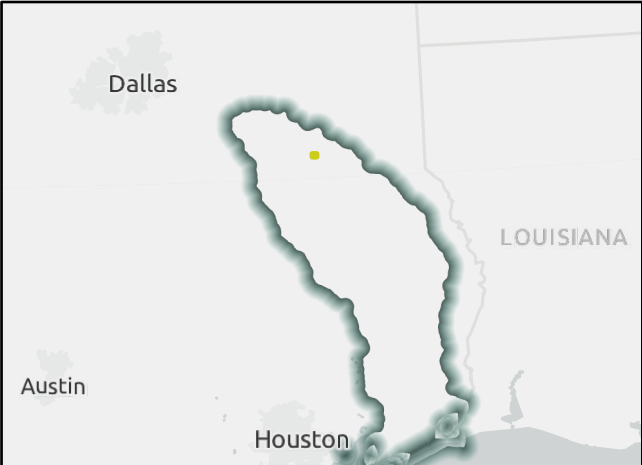
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$40,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title Trinity County Dam/Levee Failure Data Collection

ID# 052000090 Sponsor Trinity (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

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 -

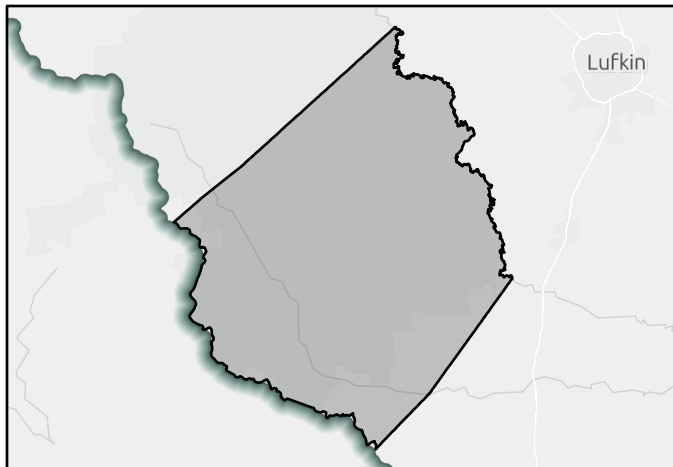
Impacts

Negative impacts? No Negative impacts description -

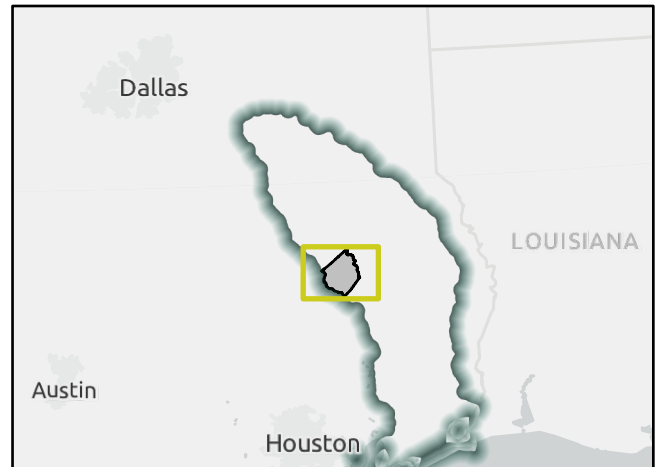
Water supply contributions? No Water supply contribution description -

Estimated Cost

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



FMS area



Regional view of FMS area

TitleVan Zandt County Higher Standards Incorporation

ID#052000091SponsorVan Zandt (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeRegulatory and GuidanceCountyVan Zandt

Strategy descriptionIncorporate Higher Standards for Hazard Resistance in Local Application of the Building Code.

Goal(s)

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 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 risk233# of structures217Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?Yes

Farm/Ranch land impacted (acres)232Roadway(s) impacted (miles)13

Number of low water crossings0Historical road closures0

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-

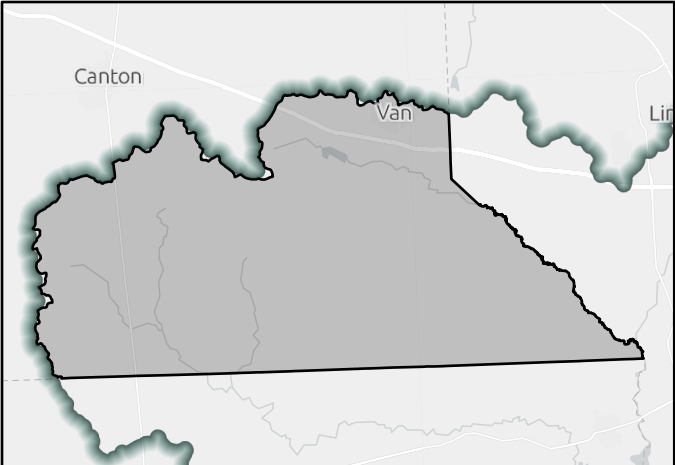
Impacts

Negative impacts?NoNegative impacts description-

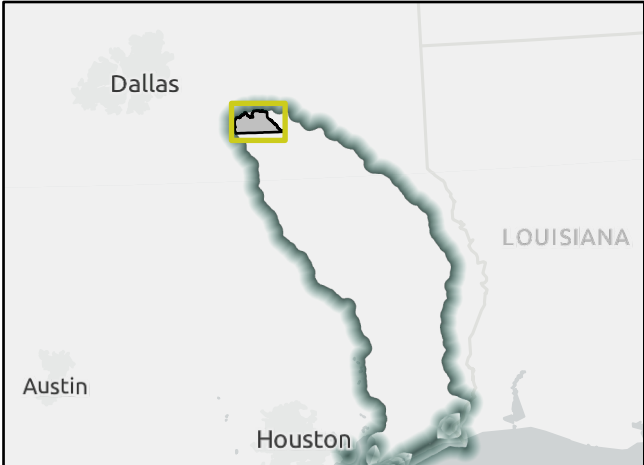
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$30,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleAnderson County Culvert Improvements

ID#052000092SponsorAnderson (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyAnderson

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

Goal(s)

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 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 risk73# of structures69Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?No

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

Number of low water crossings2Historical road closures2

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 -

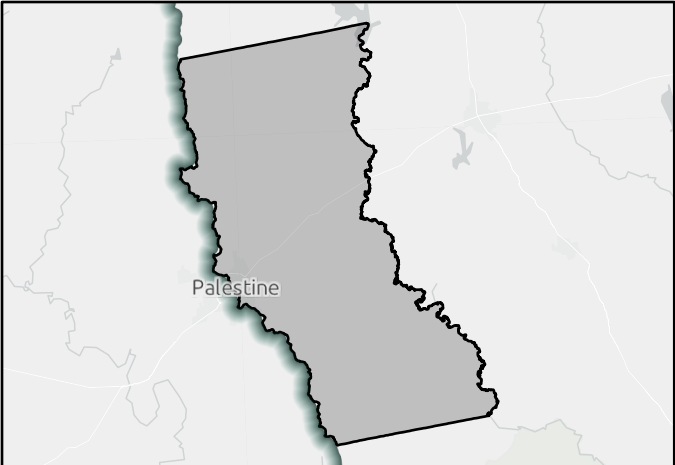
Impacts

Negative impacts?NoNegative impacts description-

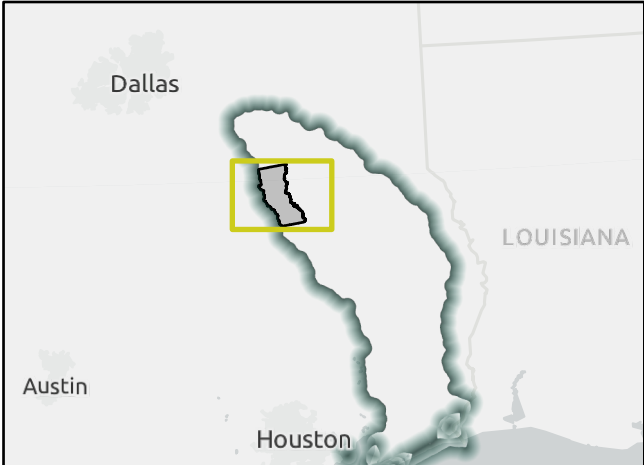
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$3,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title Anderson County Dam Inspection and Maintenance Program

ID# 052000093 Sponsor Anderson (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

Strategy Details

Strategy type Infrastructure Projects County Anderson

Strategy description Work with dam owners to keep dams in excellent condition by visiting dam locations and doing inspections with owners to ensure that dams are properly maintained and failure possibilities are greatly reduced.

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 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 -

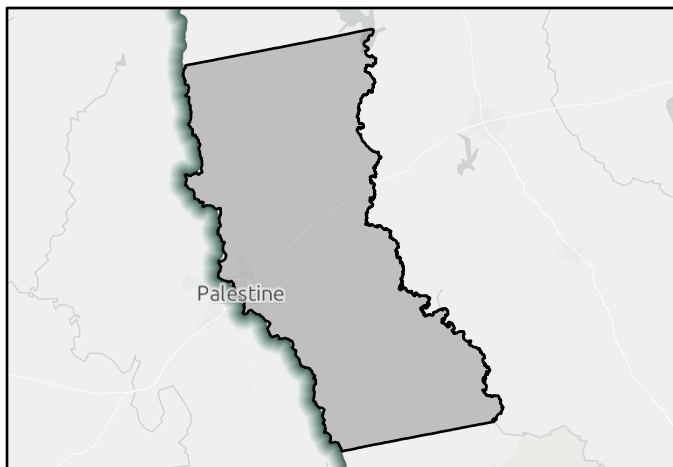
Impacts

Negative impacts? No Negative impacts description -

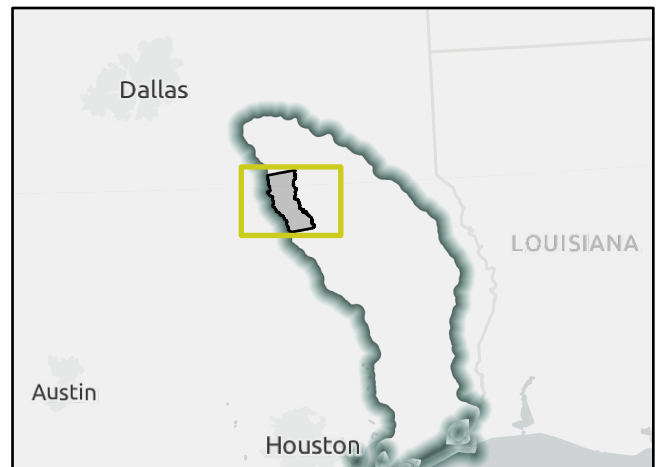
Water supply contributions? No Water supply contribution description -

Estimated Cost

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



FMS area



Regional view of FMS area

TitleCity of Frankston Culvert Improvements

ID#052000094SponsorFrankston (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyAnderson

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

Goal(s)

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 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 risk0# of structures0Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

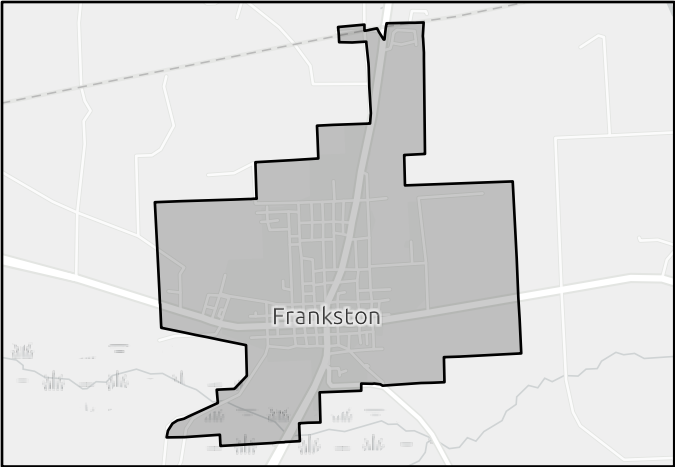
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Palestine Drainage System Expansion and Maintenance

ID#052000095SponsorPalestine (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyAnderson

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

Goal(s)

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 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 risk42# of structures14Critical facilities0

Flood risk type:

Riverine?

Yes

Coastal?

No

Local?

Yes

Playa?

No

Other?

No

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

Number of low water crossings2Historical road closures2

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 -

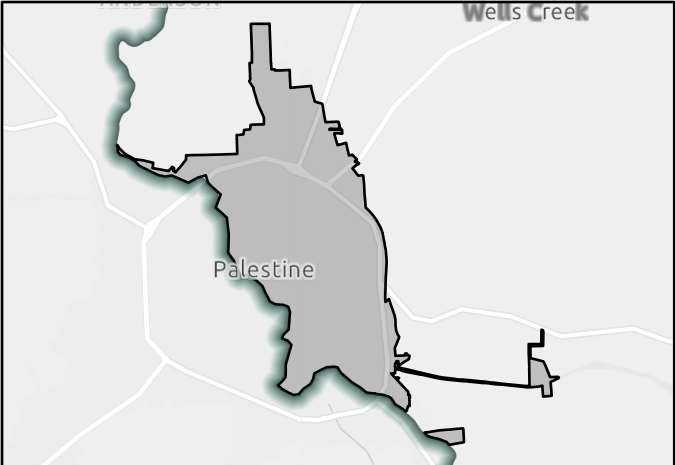
Impacts

Negative impacts?NoNegative impacts description-

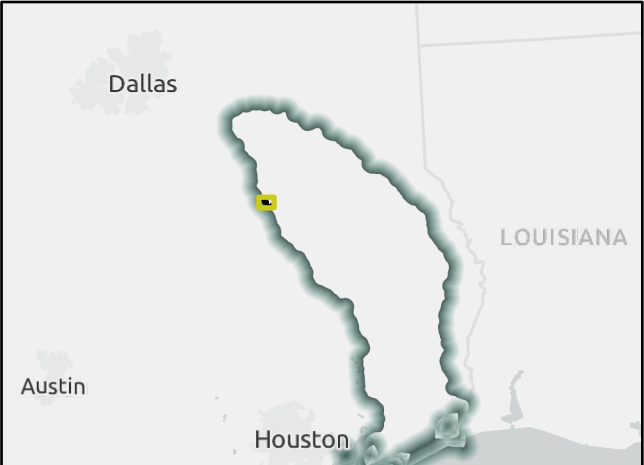
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleAngelina County Culvert Improvements

ID#052000096SponsorAngelina (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyAngelina

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

Goal(s)

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 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 risk8,420# of structures1,201Critical facilities11

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)165Roadway(s) impacted (miles)66

Number of low water crossings19Historical road closures19

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-

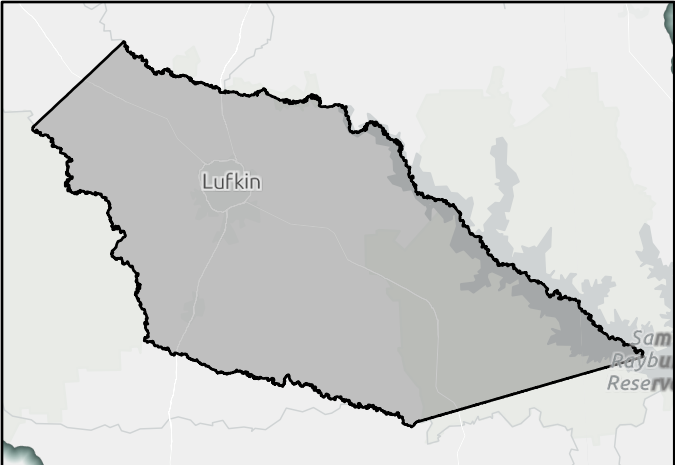
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Burke Drainage Ditch Capacity Upgrades

ID#052000097SponsorBurke (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyAngelina

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

Goal(s)

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 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 risk0# of structures1Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

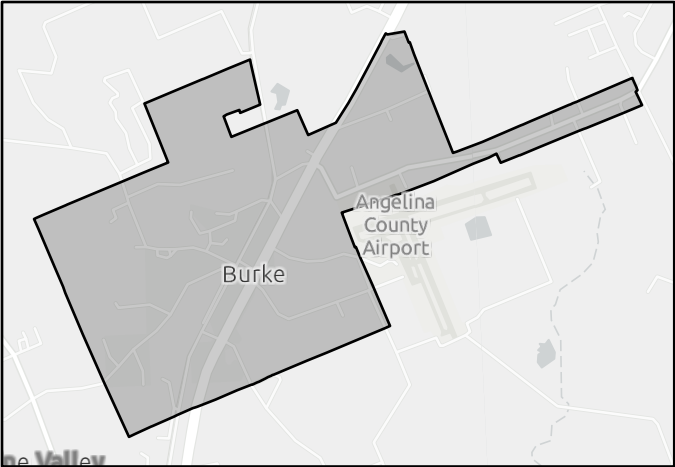
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$500,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleChambers County Property Protection

ID#052000098SponsorChambers (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyChambers

Strategy descriptionProject will clear obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding throughout all participating jurisdictions

Goal(s)

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 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 risk1,431# of structures1,175Critical facilities0

Flood risk type:Riverine?YesCoastal?YesLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)36,933Roadway(s) impacted (miles)162

Number of low water crossings0Historical road closures0

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 -

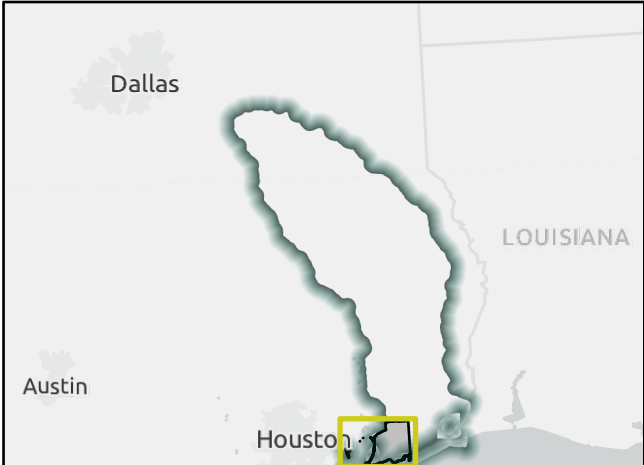
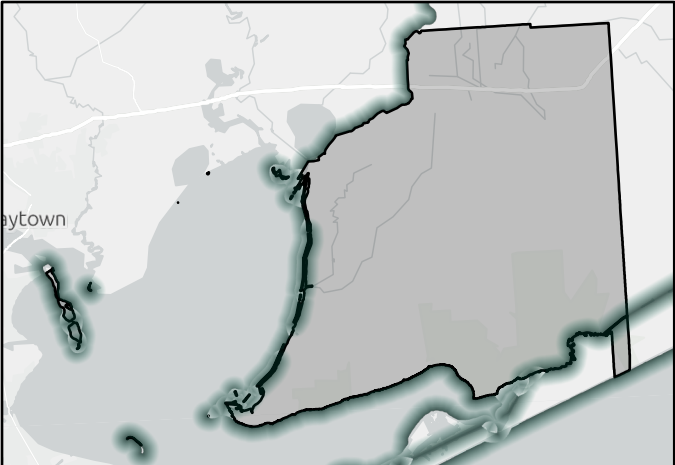
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



Regional view of FMS area

TitleCherokee County Culvert Upgrades

ID#052000099SponsorCherokee (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyCherokee

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

Goal(s)

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 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 risk1,382# of structures672Critical facilities1

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Farm/Ranch land impacted (acres)920Roadway(s) impacted (miles)49

Number of low water crossings10Historical road closures10

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?NoNegative impacts description-

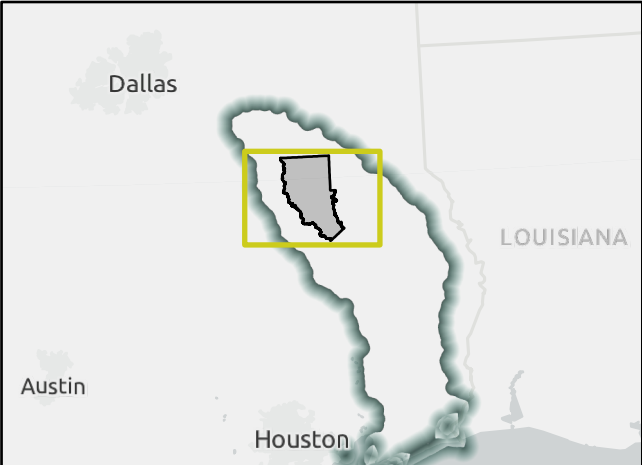
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Alto Culvert Improvements

ID#052000100SponsorAlto (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyCherokee

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

Goal(s)

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 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 risk2# of structures11Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

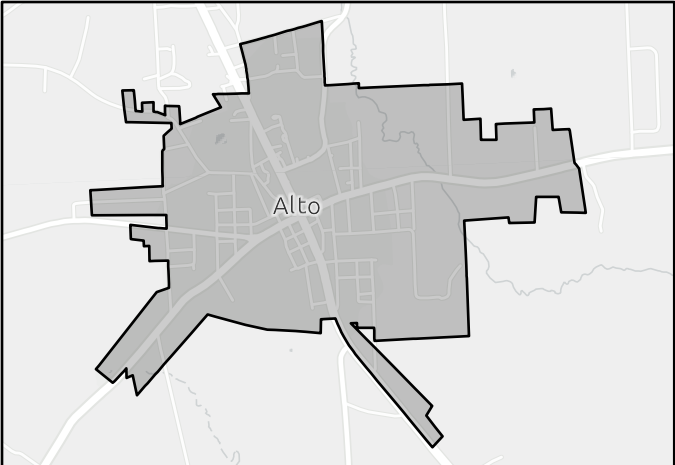
Impacts

Negative impacts?NoNegative impacts description-

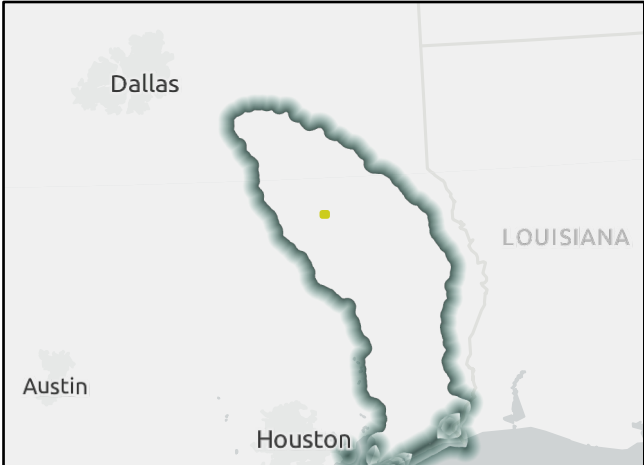
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Reklaw Drainage System Upgrades

ID#052000101SponsorReklaw (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyCherokee

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

Goal(s)

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 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 risk0# of structures1Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

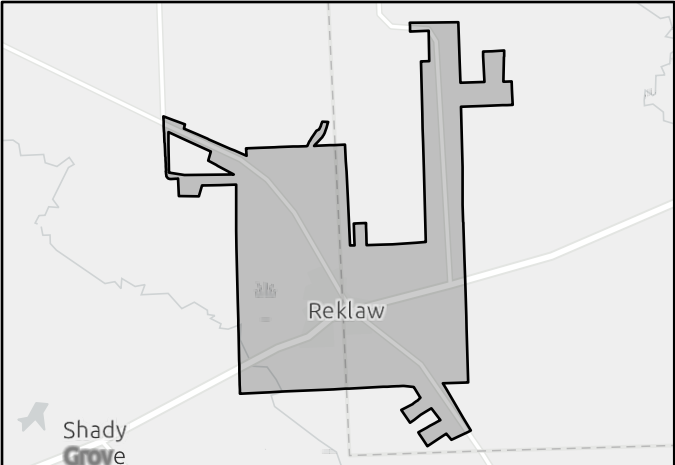
Impacts

Negative impacts?NoNegative impacts description-

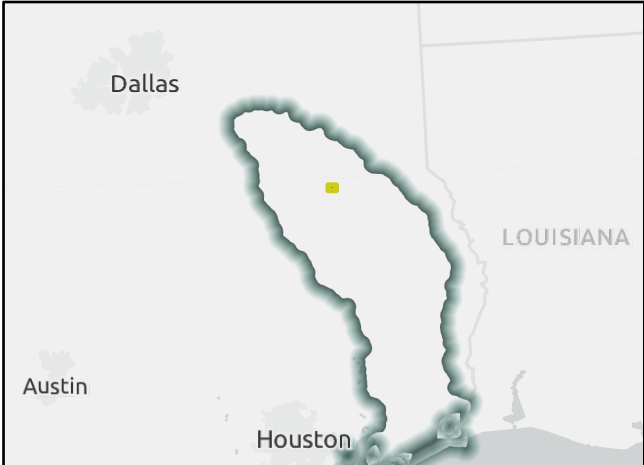
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Rusk Culvert Improvements

ID#052000102SponsorRusk (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyCherokee

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

Goal(s)

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 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 risk462# of structures41Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

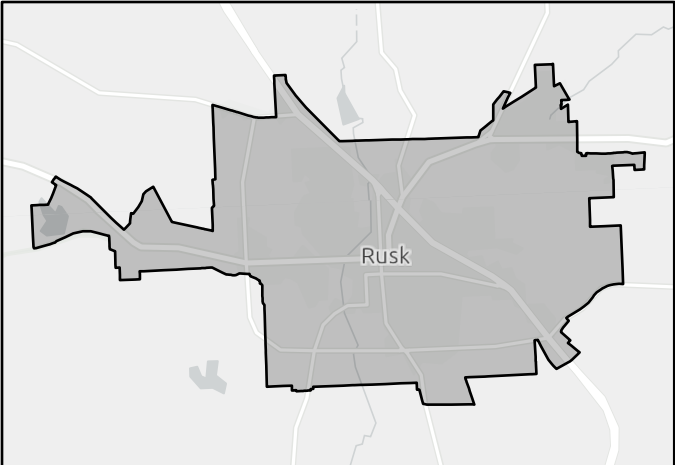
Impacts

Negative impacts?NoNegative impacts description-

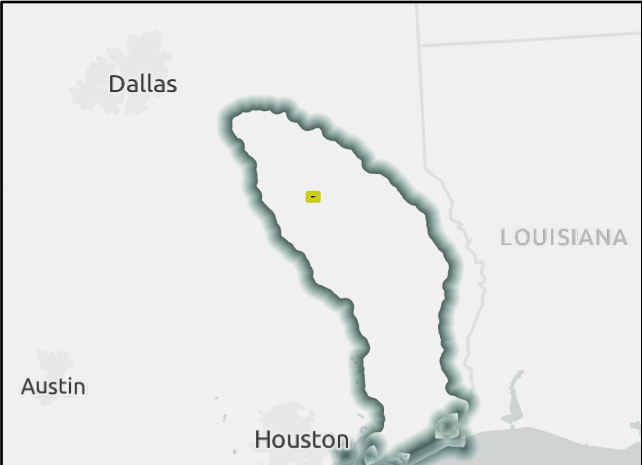
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Wells Culvert Improvements

ID#052000103SponsorWells (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Strategy Details

Strategy typeInfrastructure ProjectsCountyCherokee

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

Goal(s)

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 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 risk0# of structures1Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

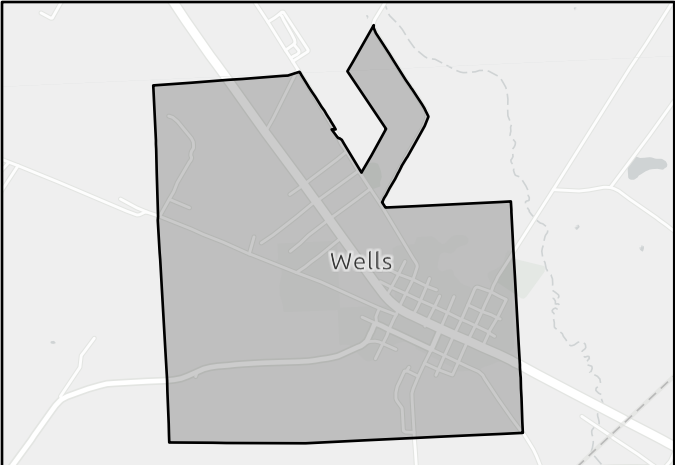
Impacts

Negative impacts?NoNegative impacts description-

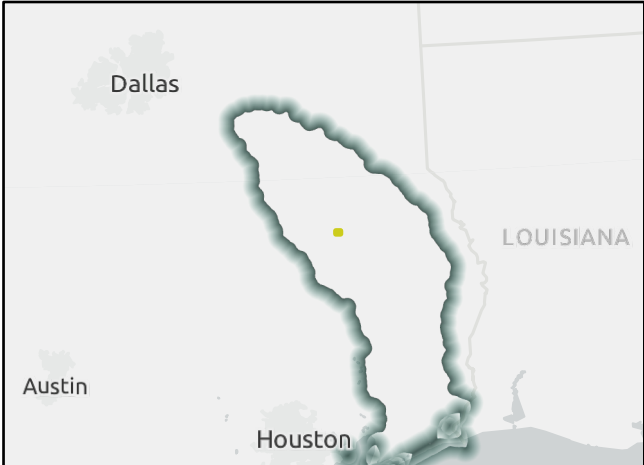
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleHardin County Culverts, Ditches, and Channel

ID#052000104SponsorHardin (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

Strategy descriptionEstablish plan to upgrade storm water capacity by installing/upgrading culverts and enlarging storm water channels.

Goal(s)

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 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 risk10,528# of structures3,678Critical facilities25

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)743Roadway(s) impacted (miles)136

Number of low water crossings13Historical road closures13

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 -

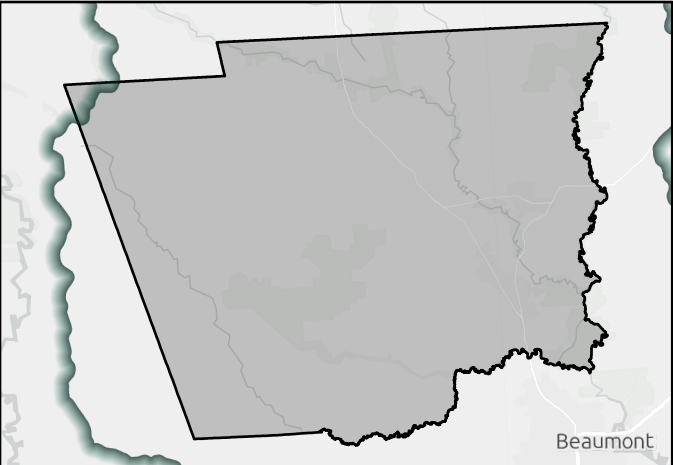
Impacts

Negative impacts?NoNegative impacts description-

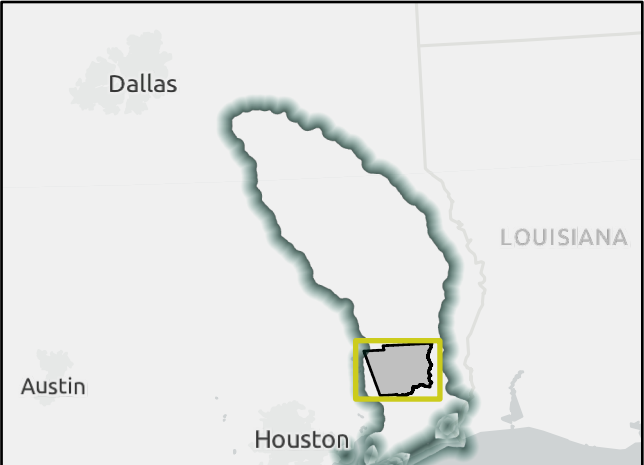
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$3,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

Hardin County Detention Ponds

ID#

052000105

Sponsor

Hardin (County)

RFPG recommend?

Yes

Reason for Recommendation

Complies with RFPG Goals

Strategy Details

Strategy type

Infrastructure Projects

County

Hardin

Strategy description

Develop a program to construct water retention ponds to collect stormwater run-off, reduce flooding, and use as an alternate water source throughout Hardin County.

Goal(s)

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 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

10,528

of structures

3,678

Critical facilities

25

Flood risk type:

Riverine?

Yes

Coastal?

No

Local?

No

Playa?

No

Other?

Yes

Farm/Ranch land impacted (acres)

743

Roadway(s) impacted (miles)

136

Number of low water crossings

13

Historical road closures

13

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

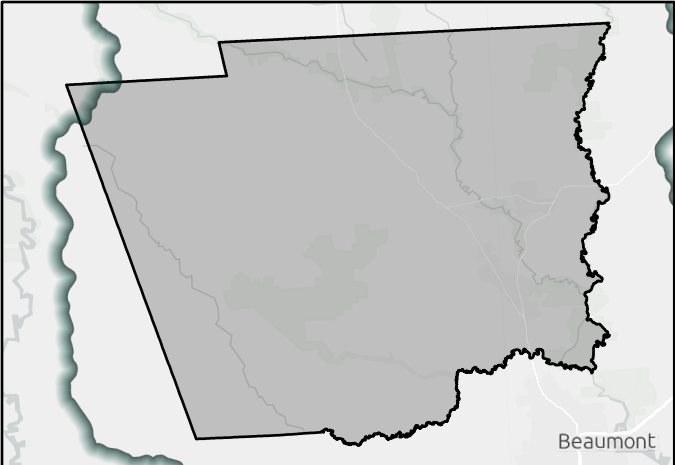
\$1,000,000

Amount of available funding

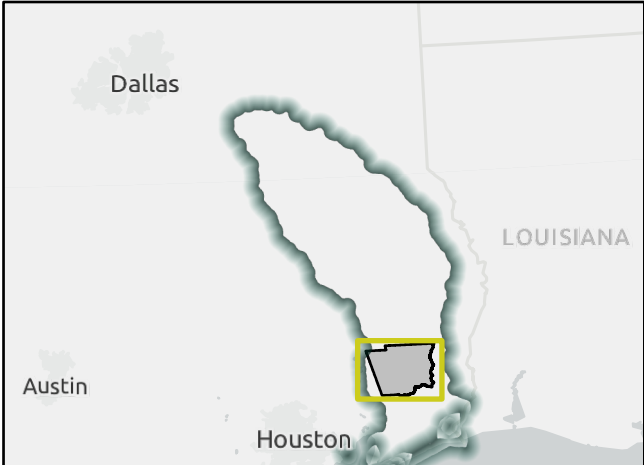
-

% Nature-Based

0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleHardin County Elevate Roads and Bridges

ID#052000106SponsorHardin (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

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

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 risk10,528# of structures3,678Critical facilities25

Flood risk type:

Riverine?Yes

Coastal?No

Local?No

Playa?No

Other?Yes

Farm/Ranch land impacted (acres)743Roadway(s) impacted (miles)136

Number of low water crossings13Historical road closures13

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 -

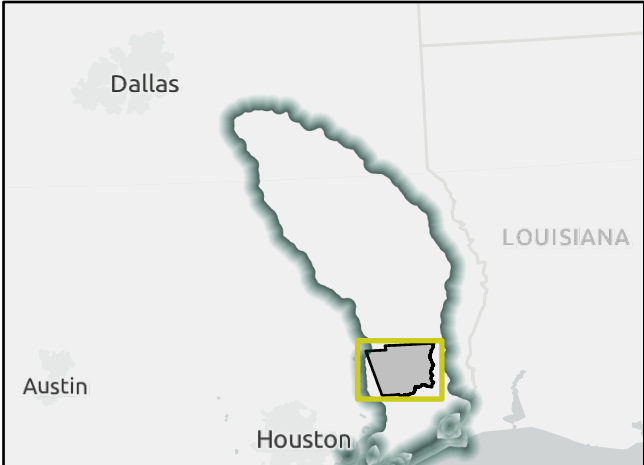
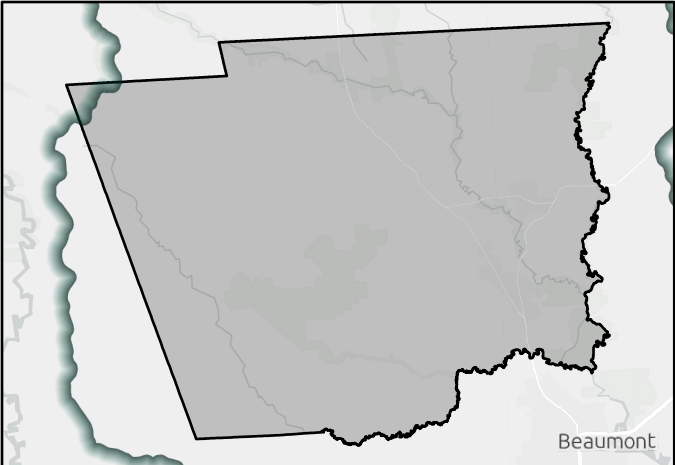
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$10,000,000Amount of available funding-% Nature-Based0



Flood Management Strategy (FMS)

REGION 5

NECHES

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 -

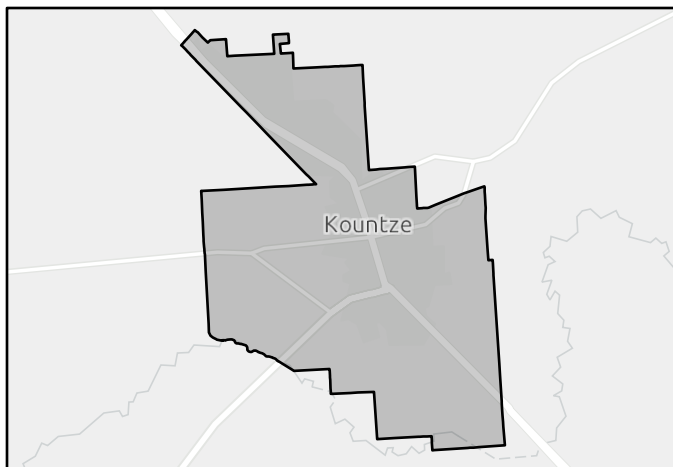
Impacts

Negative impacts? No Negative impacts description -

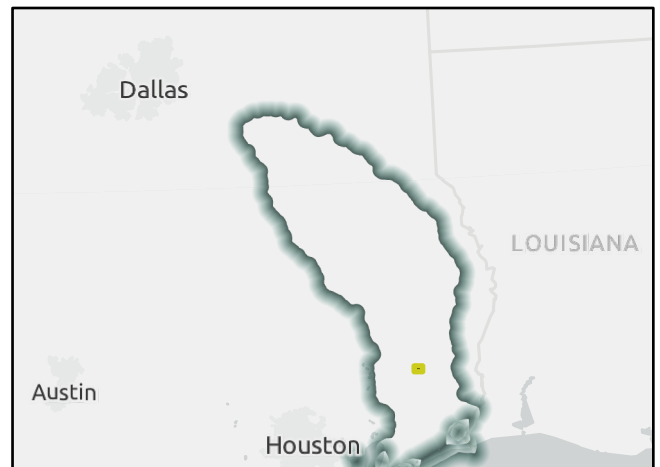
Water supply contributions? No Water supply contribution description -

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)

TitleCity of Kountze Elevate Roads and Bridges

ID#052000108SponsorKountze (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

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

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 risk2# of structures3Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings0Historical road closures0

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-

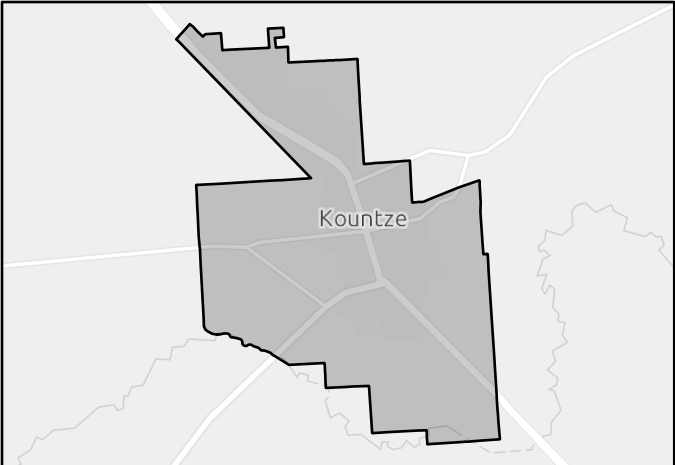
Impacts

Negative impacts?NoNegative impacts description-

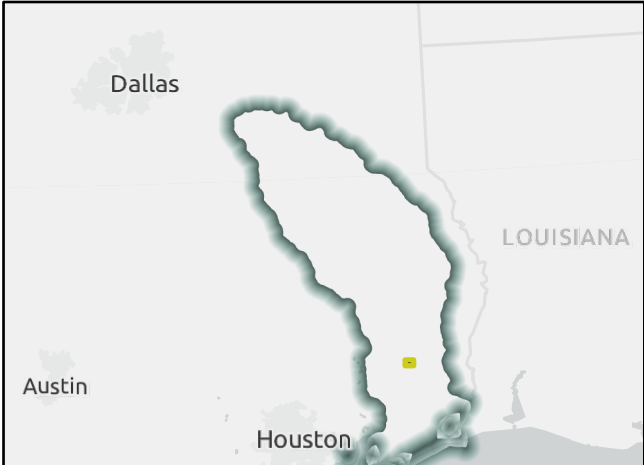
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



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(s)	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 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

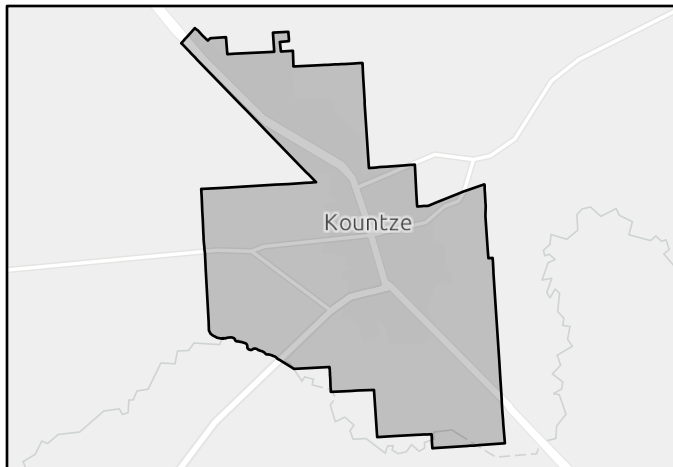
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

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)

TitleCity of Lumberton Culverts, Ditches, and Channels

ID#052000110SponsorLumberton (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

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

Goal(s)

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 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 risk658# of structures235Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings1Historical road closures1

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-

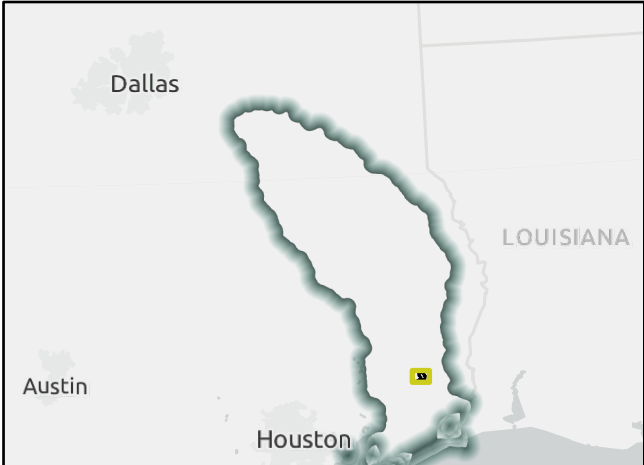
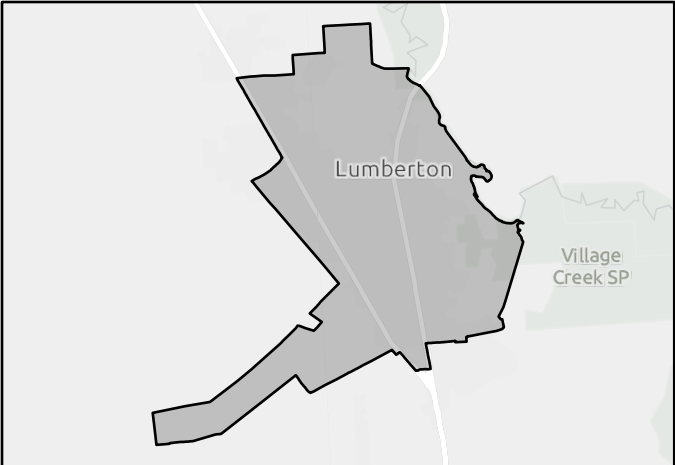
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$3,000,000Amount of available funding-% Nature-Based0



FMS area

Regional view of FMS area

TitleCity of Rose Hill Acres Flood Control Improvements

ID#052000111SponsorRose Hill Acres (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

Strategy descriptionDevelop 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(s)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 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 risk278# of structures134Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

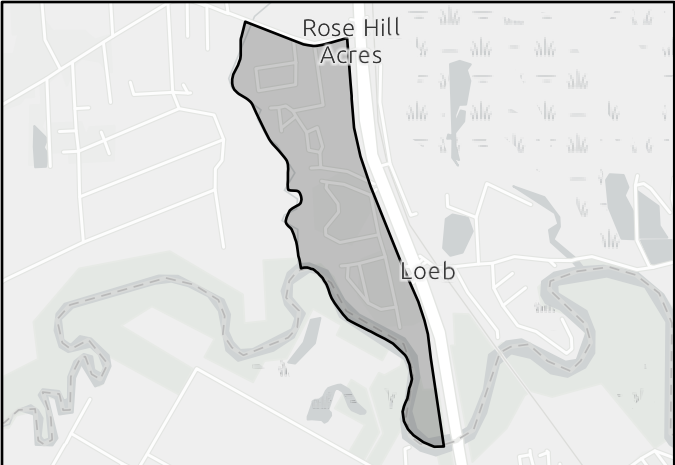
Impacts

Negative impacts?NoNegative impacts description-

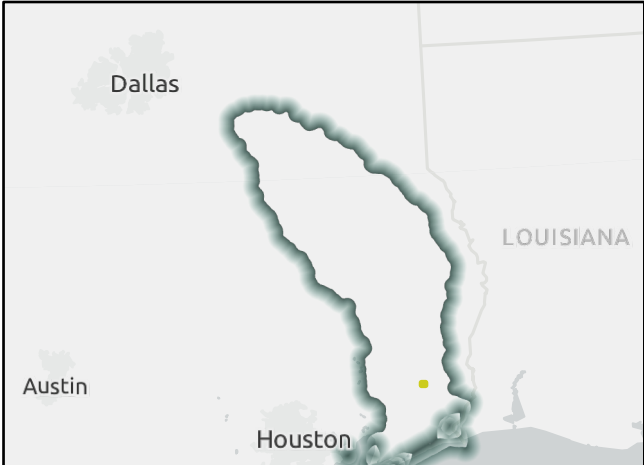
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$3,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleCity of Rose Hill Acres General Drainage Improvements

ID#052000112SponsorRose Hill Acres (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

Strategy descriptionEstablish criteria to increase drainage capacity; add stormwater detention basins, box culverts and/or pipes to increase drainage capacity.

Goal(s)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 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 risk278# of structures134Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?No

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

Number of low water crossings0Historical road closures0

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-

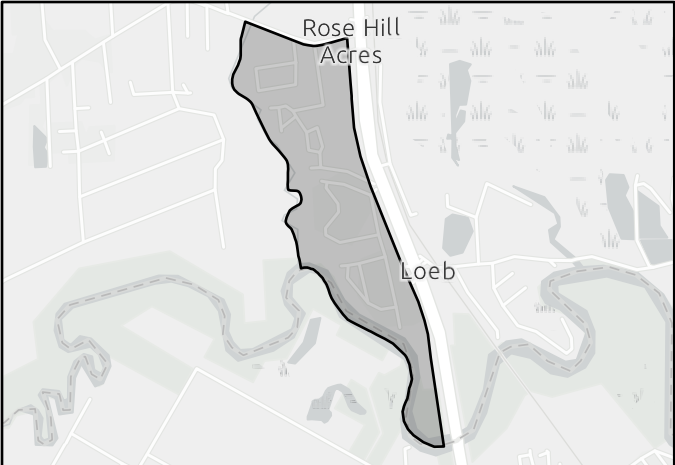
Impacts

Negative impacts?NoNegative impacts description-

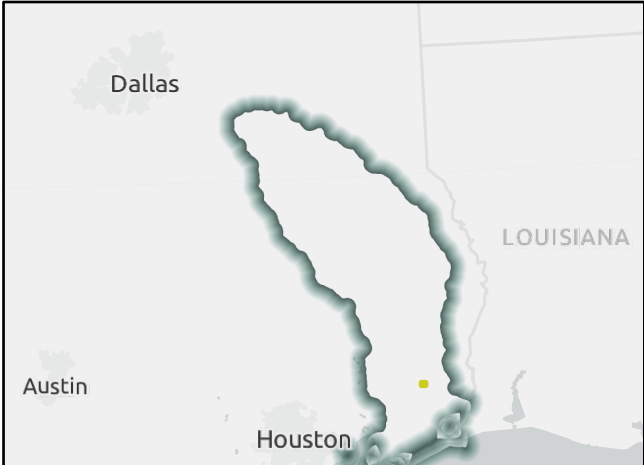
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$400,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Silsbee Detention, Culverts, Ditches and Channels

ID#052000113SponsorSilsbee (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

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

Goal(s)

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 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 risk780# of structures87Critical facilities2

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings3Historical road closures3

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-

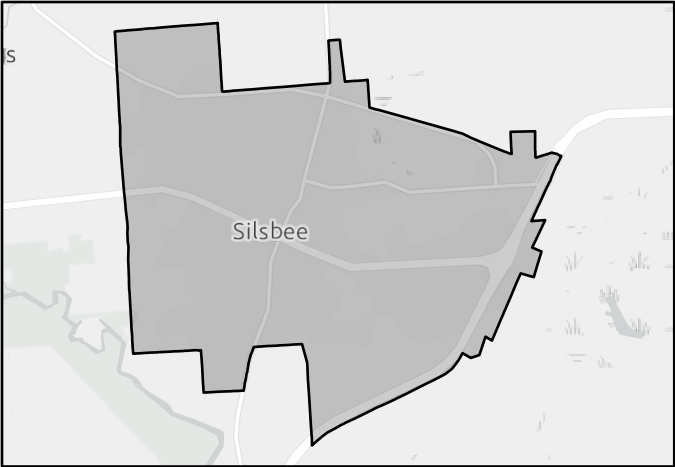
Impacts

Negative impacts?NoNegative impacts description-

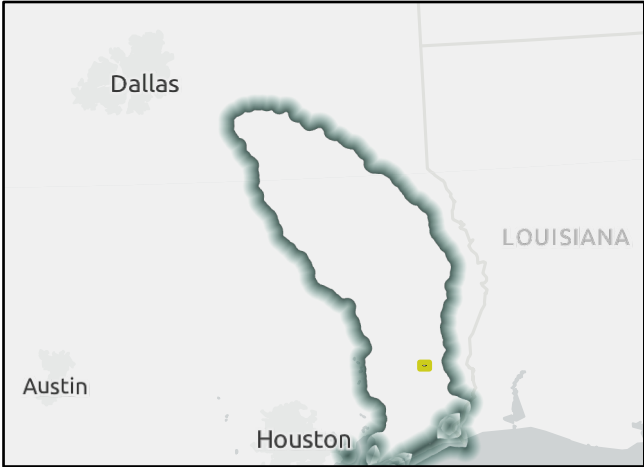
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,500,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

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

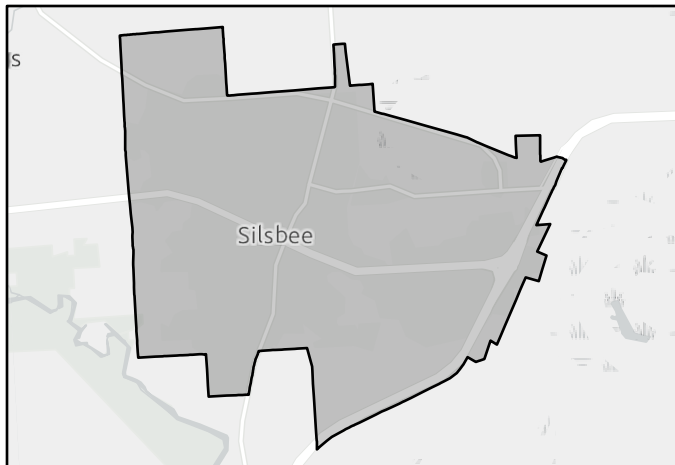
Water supply contribution description -

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)

TitleCity of Silsbee Flood Mitigation for Hendrix Development

ID#052000115SponsorSilsbee (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

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

Goal(s)

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 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 risk780# of structures87Critical facilities2

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings3Historical road closures3

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-

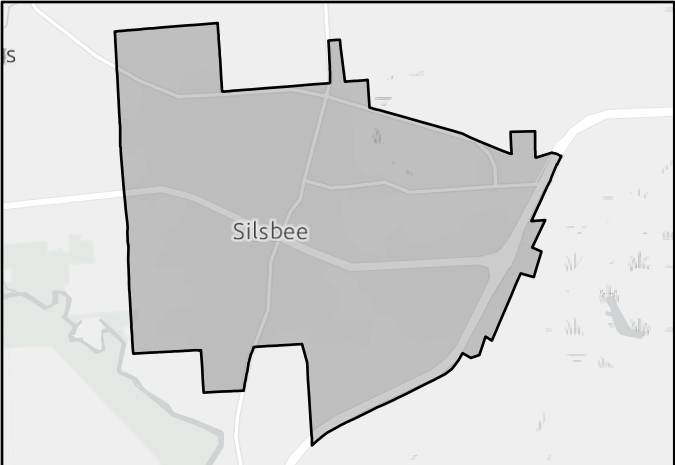
Impacts

Negative impacts?NoNegative impacts description-

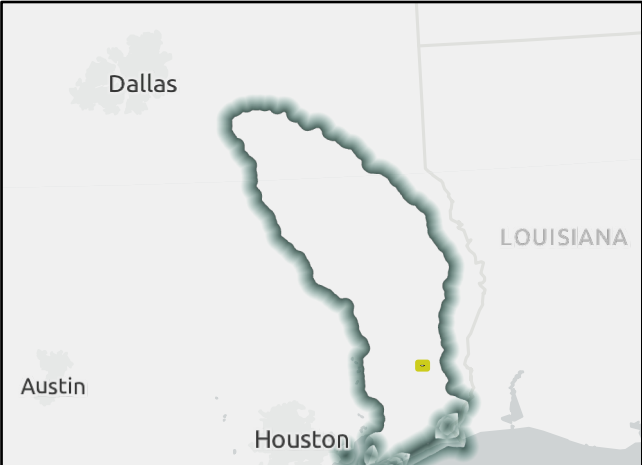
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$5,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title City of Sour Lake Channel Improvements

ID# 052000116 Sponsor Sour Lake (Municipality)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

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 -

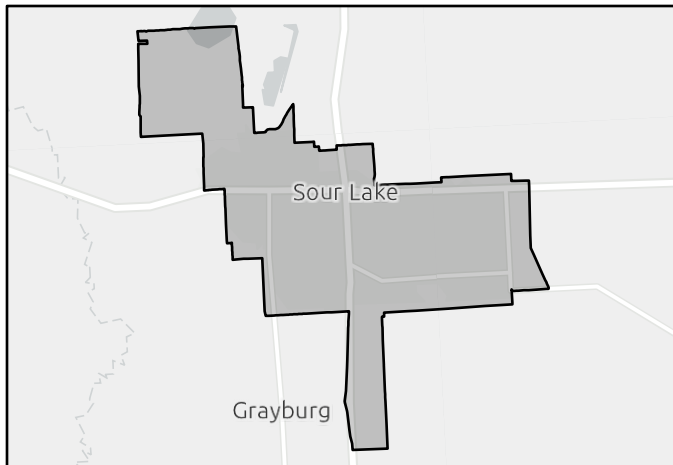
Impacts

Negative impacts? No Negative impacts description -

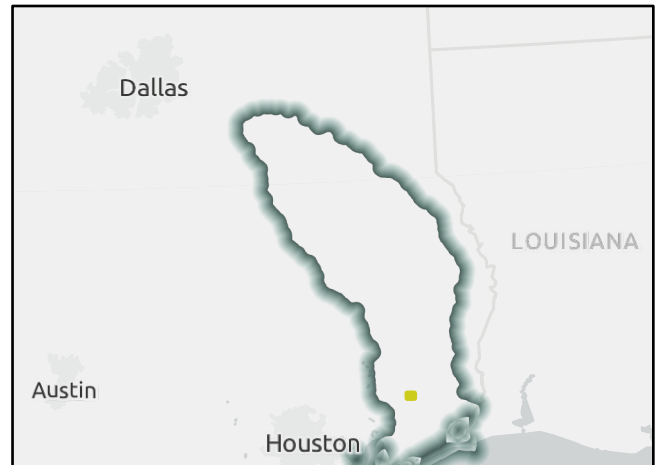
Water supply contributions? No Water supply contribution description -

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

NECHES

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

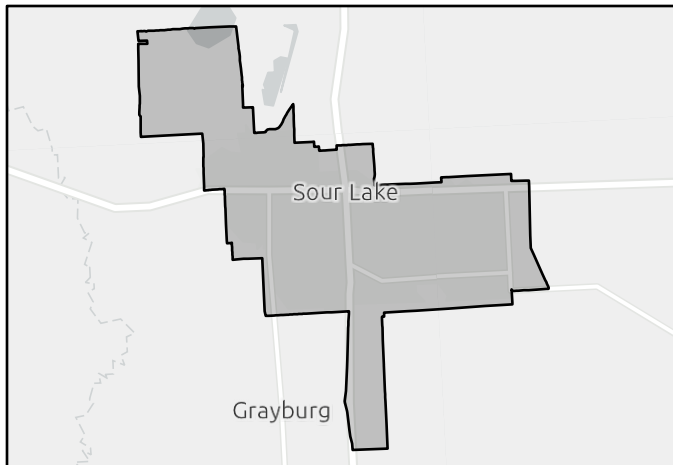
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

Impacts

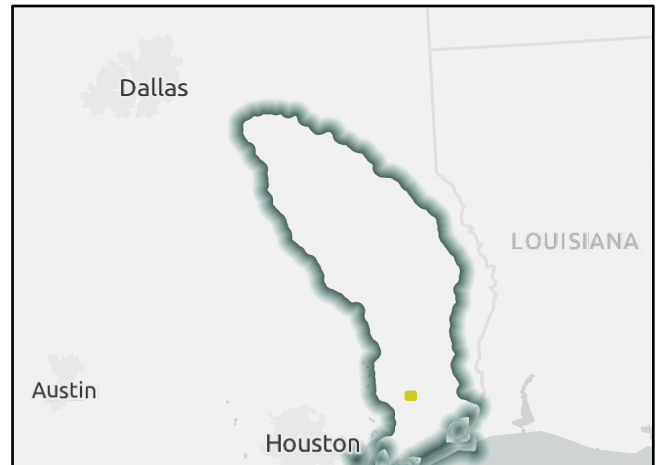
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

Estimated Cost

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



FMS area



Regional view of FMS area

TitleCity of Sour Lake Stormwater Detention

ID#052000118SponsorSour Lake (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHardin

Strategy descriptionEstablish criteria and standards to construct water retention ponds to collect stormwater run-off and reduce flooding.

Goal(s)

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 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 risk1,687# of structures435Critical facilities7

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)7Roadway(s) impacted (miles)8

Number of low water crossings3Historical road closures3

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-

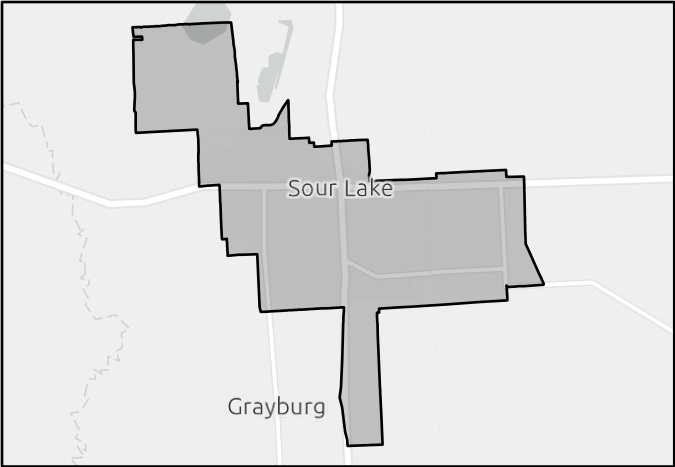
Impacts

Negative impacts?NoNegative impacts description-

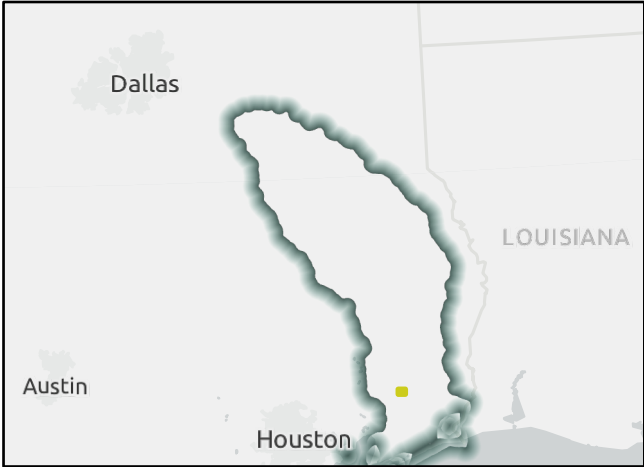
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$7,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title Houston County Drainage Culvert Upgrades

ID# 052000119 Sponsor Houston (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

Strategy Details

Strategy type Infrastructure Projects

County Houston

Strategy description Develop a plan to expand/upgrade drainage culverts to prevent flooded roadways and add signage in low-water crossings.

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 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

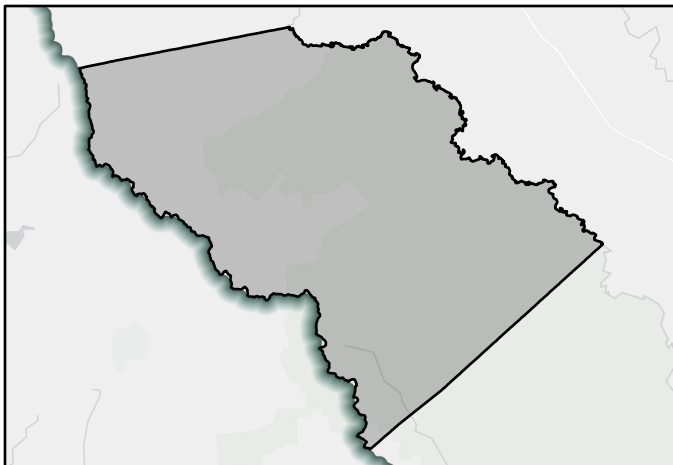
Water supply contribution description -

Estimated Cost

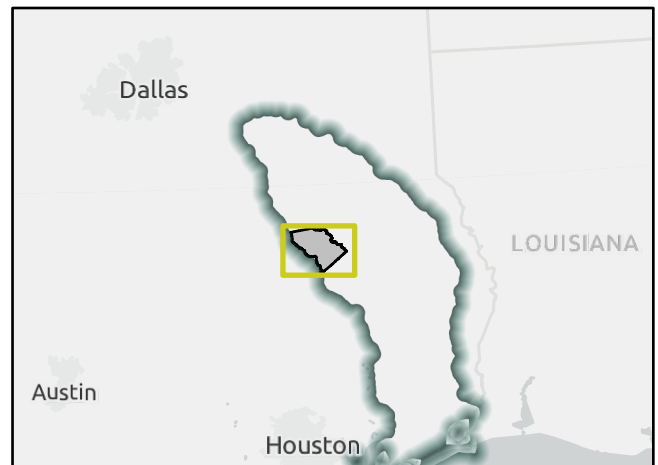
Strategy Cost \$3,000,000

Amount of available funding -

% Nature-Based 0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleHouston County Flood Infrastructure Maintenance

ID#052000120SponsorHouston (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyHouston

Strategy descriptionClear debris from bridges, box culverts, and drainage systems throughout unincorporated county.

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 risk16# of structures17Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)117Roadway(s) impacted (miles)20

Number of low water crossings7Historical road closures7

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-

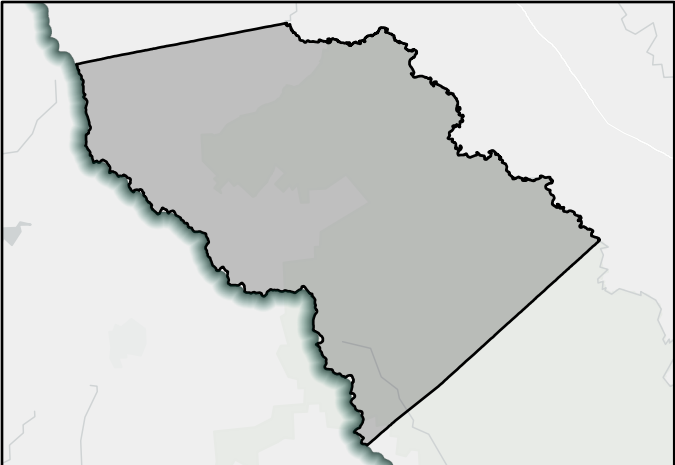
Impacts

Negative impacts?NoNegative impacts description-

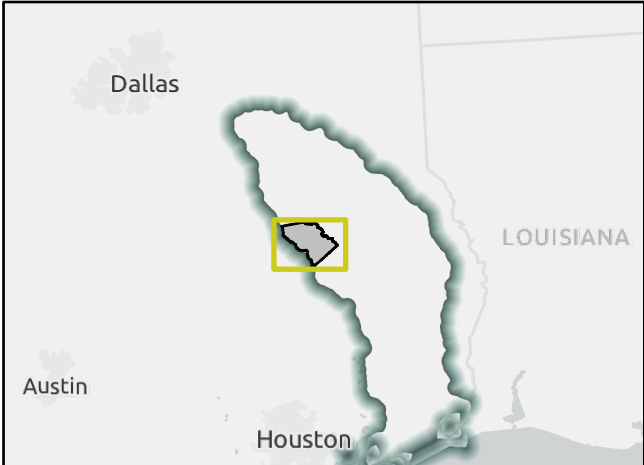
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title City of Grapeland Critical Facilities Flood-Proofing

ID# 052000121 Sponsor Houston (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

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(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 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 -

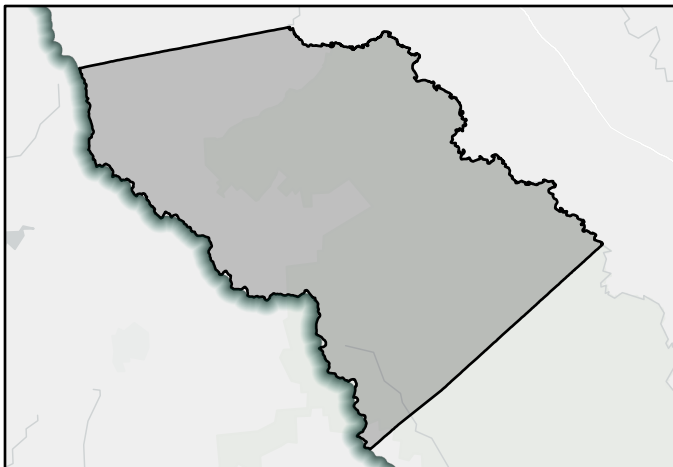
Impacts

Negative impacts? No Negative impacts description -

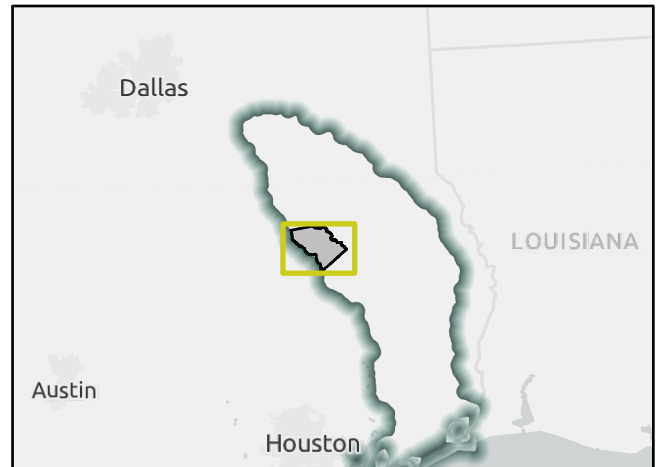
Water supply contributions? No Water supply contribution description -

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

NECHES

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 -

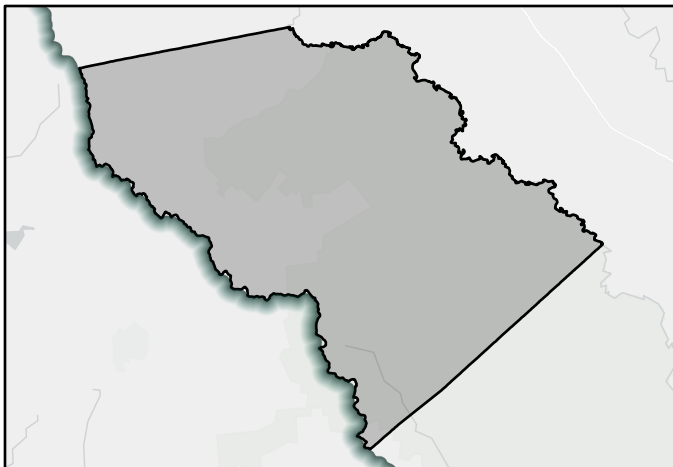
Impacts

Negative impacts? No Negative impacts description -

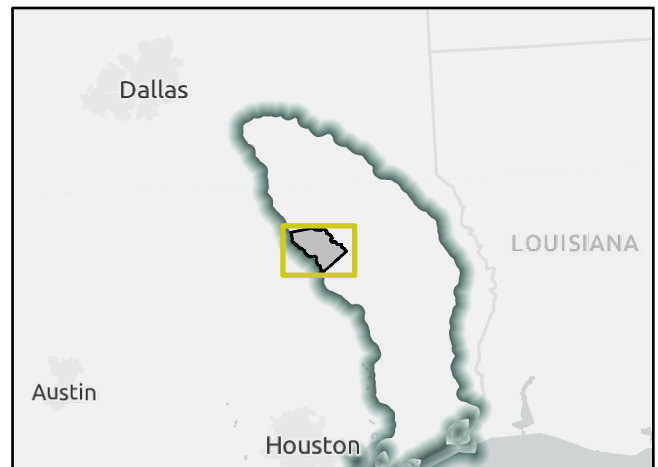
Water supply contributions? No Water supply contribution description -

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)

TitleLiberty County Drainage Projects

ID#052000123SponsorLiberty (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyLiberty

Strategy descriptionThe county will work with partnering jurisdictions and engineers in order to implement drainage projects throughout the county- including adding ditches, detention ponds and detention basins in identified locations throughout the county.

Goal(s)

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 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 risk143# of structures116Critical facilities1

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)1,526Roadway(s) impacted (miles)7

Number of low water crossings0Historical road closures0

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 -

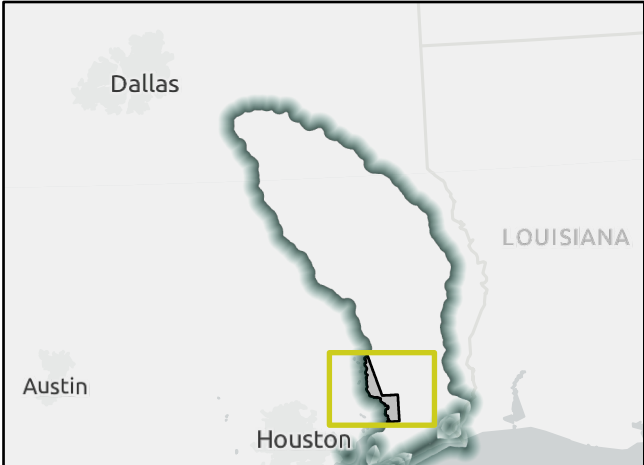
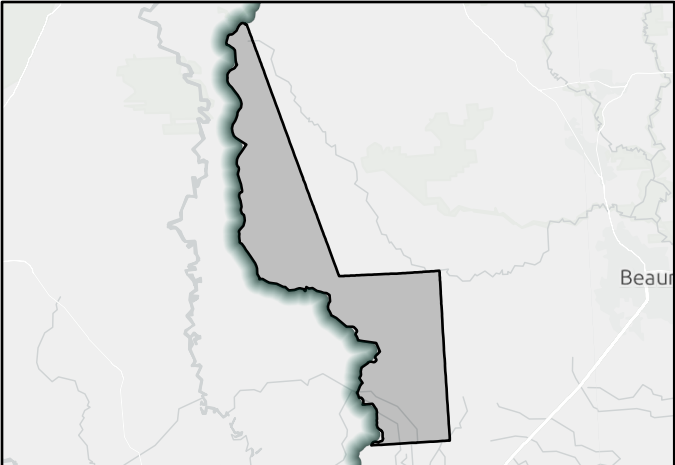
Impacts

Negative impacts?NoNegative impacts description-

Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



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 -

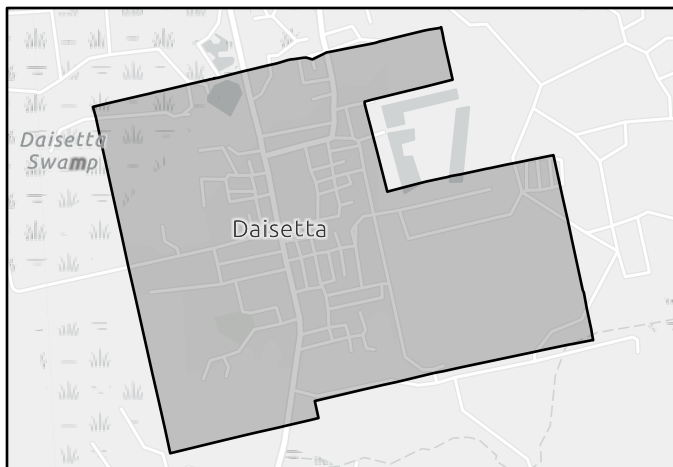
Impacts

Negative impacts? No Negative impacts description -

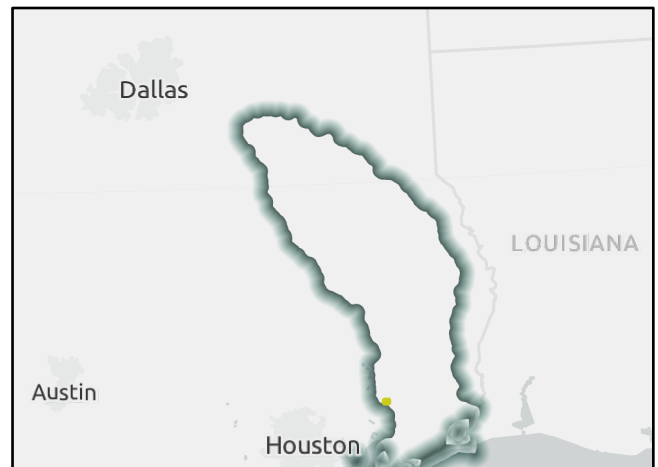
Water supply contributions? No Water supply contribution description -

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)

TitleOCDD Flood Infrastructure Improvements

ID#052000125SponsorOrange County Drainage District

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyOrange

Strategy descriptionSupport regional efforts to plan, design, and construct large scale flood control / storm surge protection improvements

Goal(s)

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 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 risk11,929# of structures5,007Critical facilities36

Flood risk type:

Riverine?Yes

Coastal?Yes

Local?No

Playa?No

Other?Yes

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

Number of low water crossings20Historical road closures20

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 -

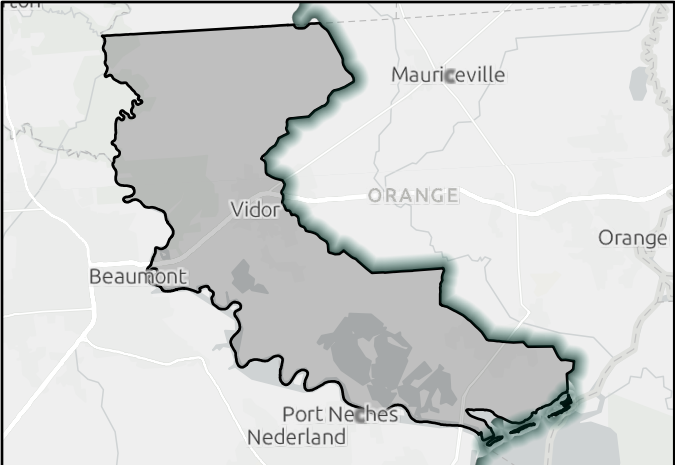
Impacts

Negative impacts?NoNegative impacts description-

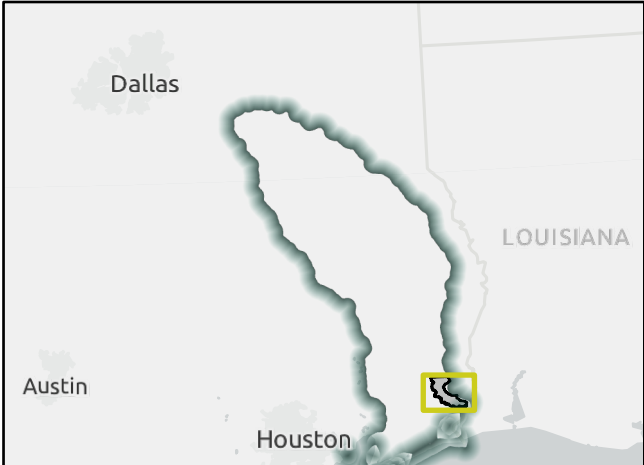
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$3,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitlePolk County Facilities Hazard Hardening Retrofit

ID#052000126SponsorPolk (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyPolk

Strategy descriptionActivities 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(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 risk368# of structures84Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings8Historical road closures8

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-

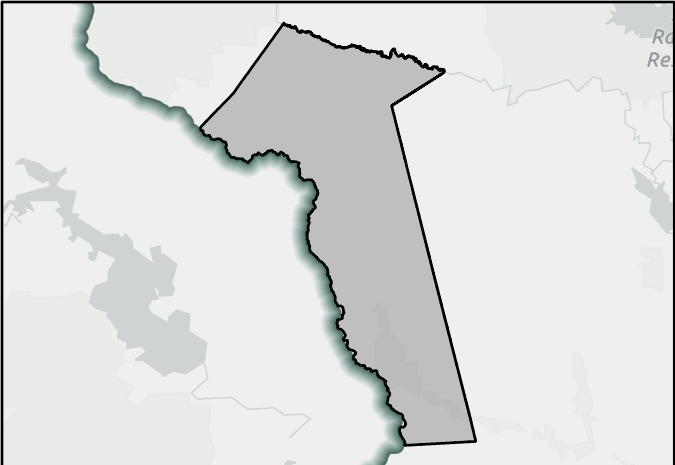
Impacts

Negative impacts?NoNegative impacts description-

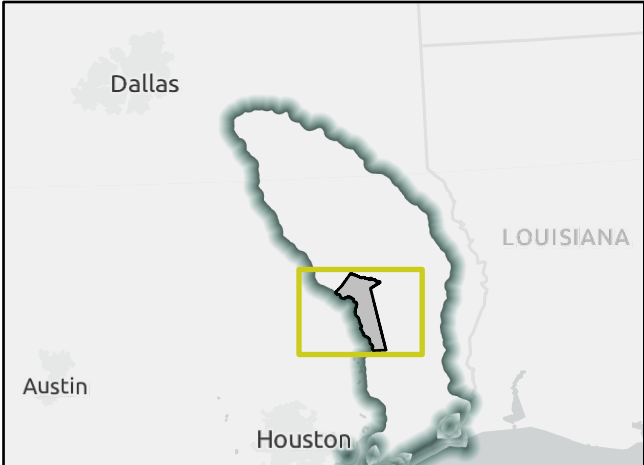
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,500,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitlePolk County Flood Infrastructure Improvements

ID#052000127SponsorPolk (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyPolk

Strategy descriptionImplement 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(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 risk368# of structures84Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

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

Number of low water crossings8Historical road closures8

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-

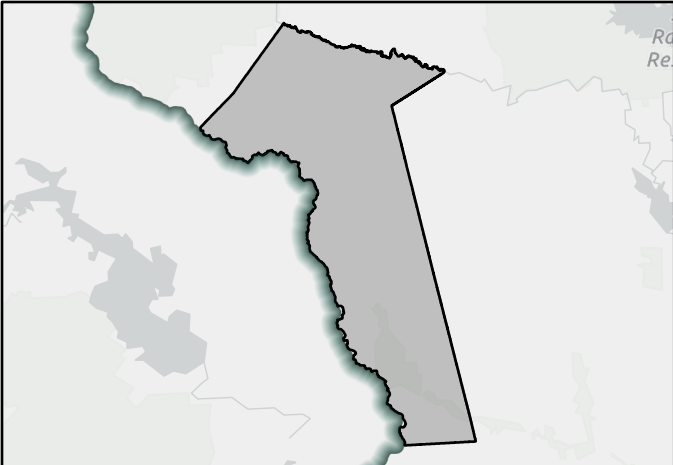
Impacts

Negative impacts?NoNegative impacts description-

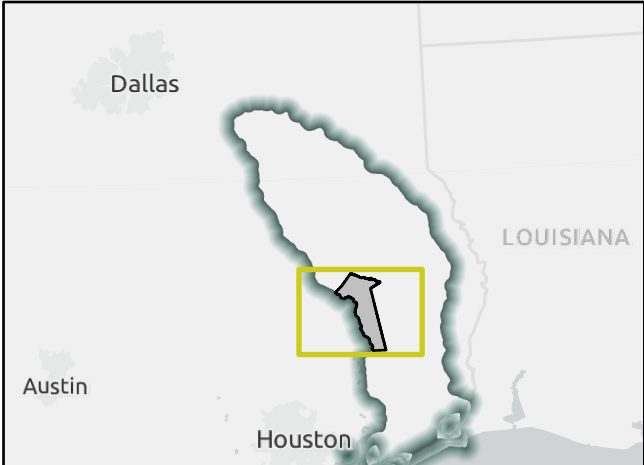
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Henderson Flood Infrastructure Maintenance

ID#052000128SponsorHenderson (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyRusk

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

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 risk97# of structures37Critical facilities0

Flood risk type:

Riverine?

Yes

Coastal?

No

Local?

Yes

Playa?

No

Other?

No

Farm/Ranch land impacted (acres)5Roadway(s) impacted (miles)2

Number of low water crossings0Historical road closures0

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 -

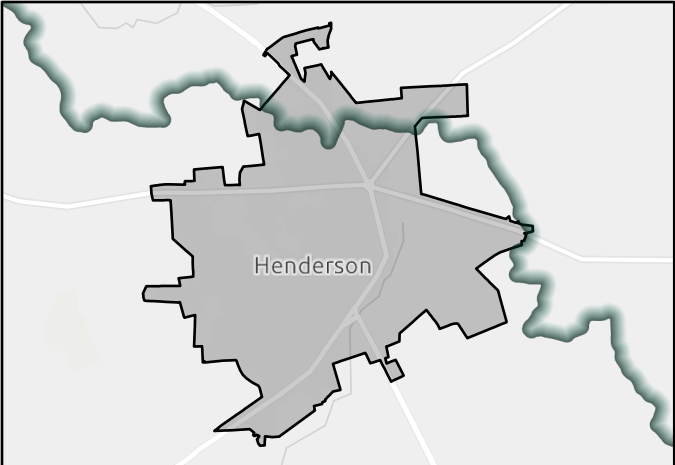
Impacts

Negative impacts?NoNegative impacts description-

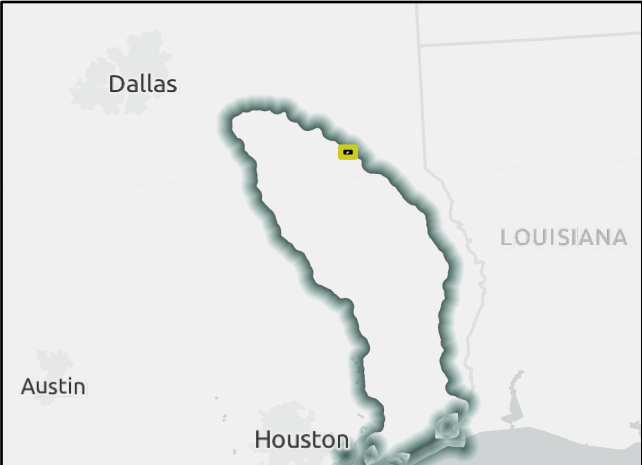
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleSan Augustine County Bridge Improvements

ID#052000129SponsorSan Augustine (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountySan Augustine

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

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 risk146# of structures64Critical facilities0

Flood risk type:

Riverine?

Yes

Coastal?

No

Local?

Yes

Playa?

No

Other?

No

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

Number of low water crossings2Historical road closures2

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 -

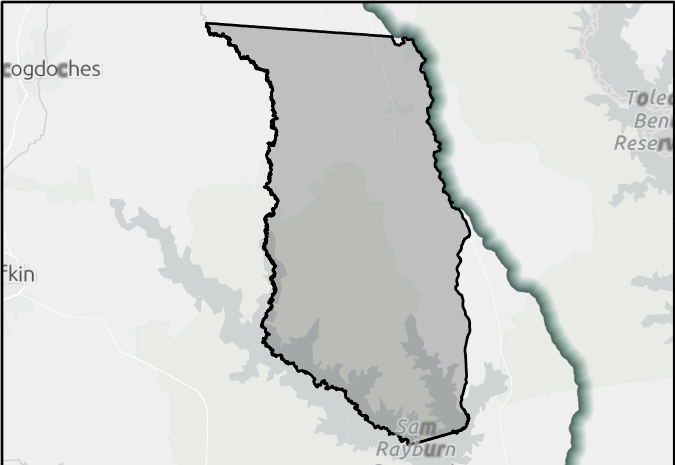
Impacts

Negative impacts?NoNegative impacts description-

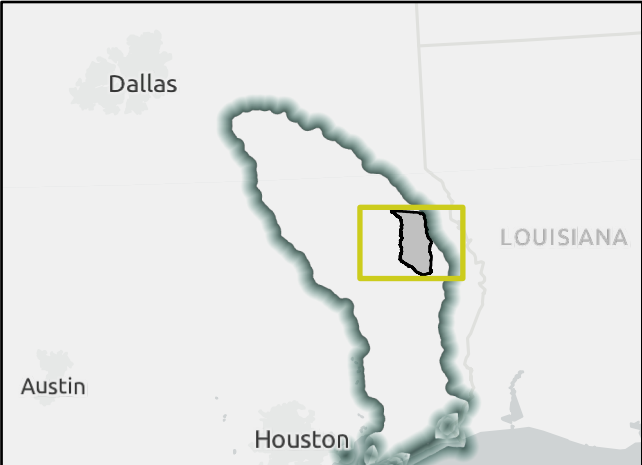
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

TitleSan Augustine County Culvert Upgrades

ID#052000130SponsorSan Augustine (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountySan Augustine

Strategy descriptionEstablish 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(s)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 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 risk146# of structures64Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings2Historical road closures2

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-

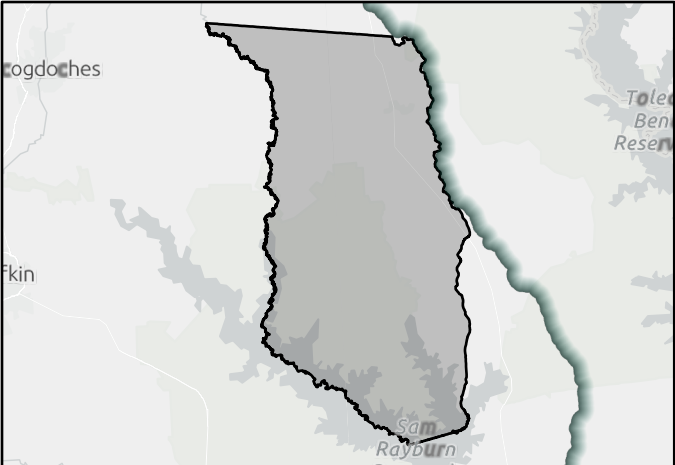
Impacts

Negative impacts?NoNegative impacts description-

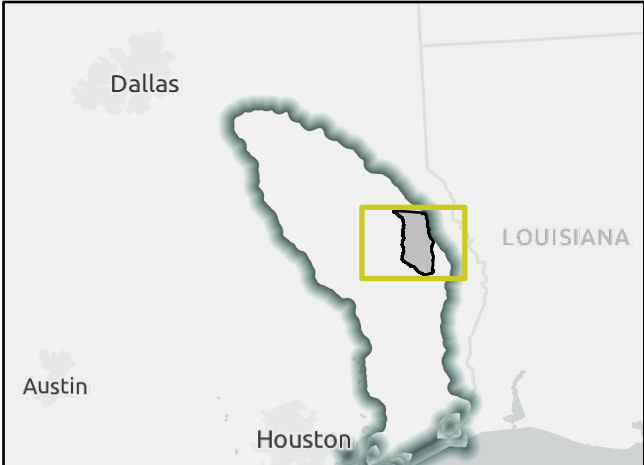
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title San Augustine County Facilities Hazard Hardening Retrofit

ID# 052000131 Sponsor San Augustine (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

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(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 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 -

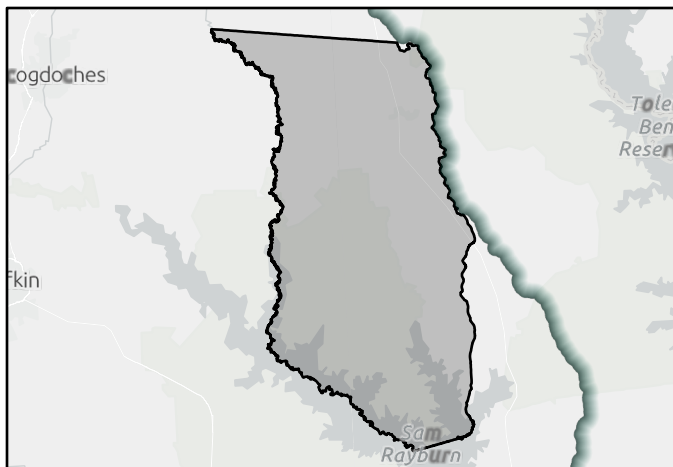
Impacts

Negative impacts? No Negative impacts description -

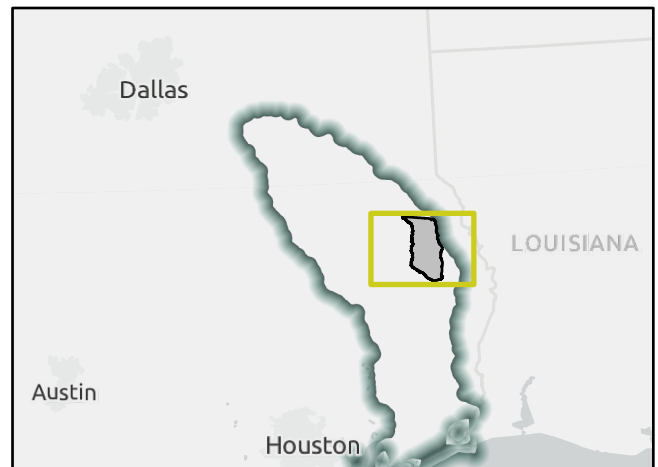
Water supply contributions? No Water supply contribution description -

Estimated Cost

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



FMS area



Regional view of FMS area

TitleSan Augustine County Detention and Retention Pond Construction

ID#052000132SponsorSan Augustine (County)

RFPG recommend? YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountySan Augustine

Strategy descriptionConstruct 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(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 risk146# of structures64Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings2Historical road closures2

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-

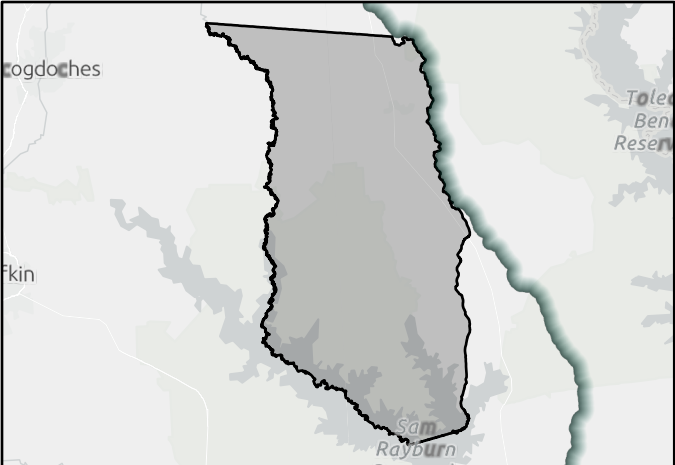
Impacts

Negative impacts?NoNegative impacts description-

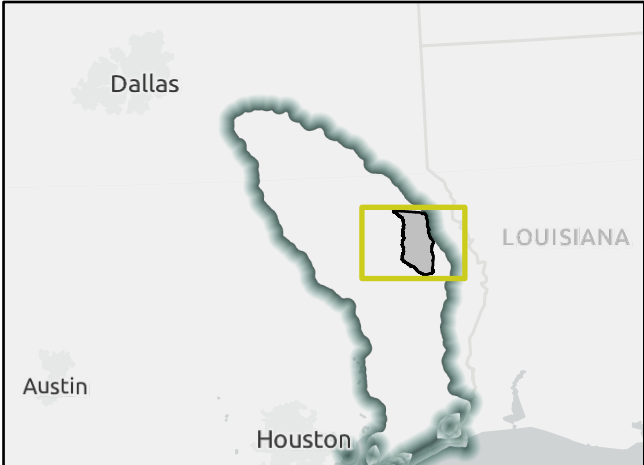
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$3,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

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

Strategy Details

Strategy typeInfrastructure ProjectsCountySan Augustine

Strategy descriptionConstruct 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(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 risk114# of structures34Critical facilities0

Flood risk type:

Riverine?

Yes

Coastal?

No

Local?

Yes

Playa?

No

Other?

No

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

Number of low water crossings0Historical road closures0

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-

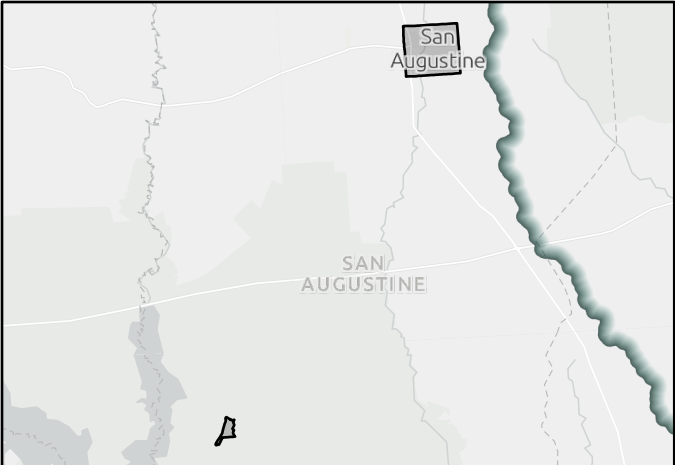
Water supply contributions?

No

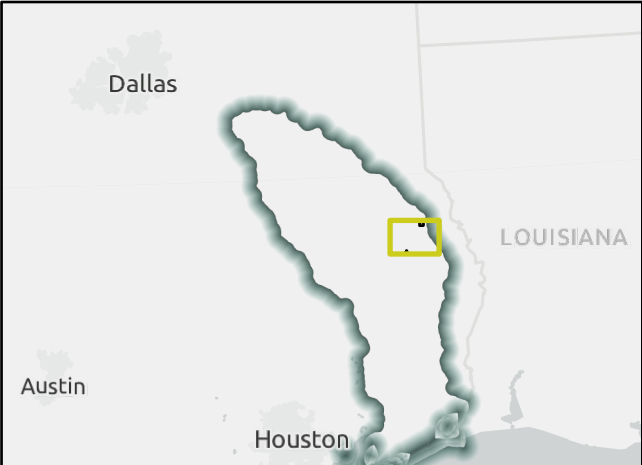
Water supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title	Shelby County Detention and Retention Pond Construction		
ID#	052000134	Sponsor	Shelby (County)
RFPG recommend?	Yes	Reason for Recommendation	Complies with RFPG Goals

Strategy Details

Strategy type	Infrastructure Projects	County	Shelby
Strategy description	Establish a plan and necessary standards to 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(s)	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 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	8	# of structures	15	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? Yes	Playa? No	Other? No
Farm/Ranch land impacted (acres)	56	Roadway(s) impacted (miles)	5		
Number of low water crossings	4	Historical road closures	4		

100-Year Flood Risk Reduction

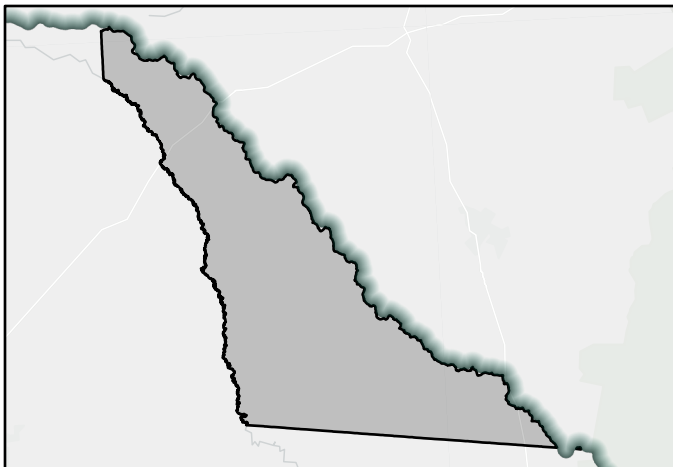
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	-	Reduction in # of road closures over 10 years	-

Impacts

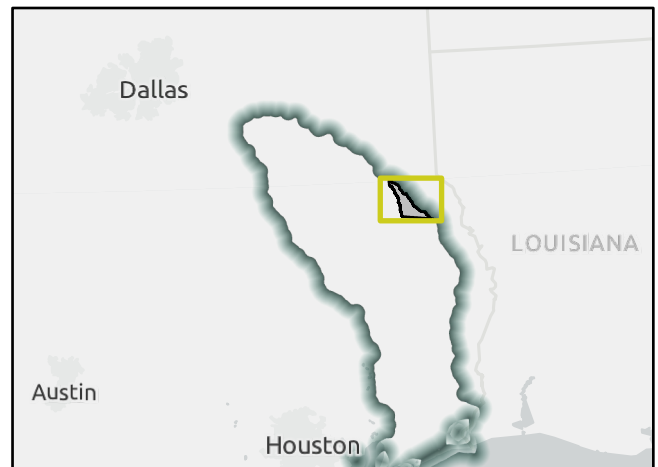
Negative impacts?	No	Negative impacts description	-
Water supply contributions?	No	Water supply contribution description	-

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)

TitleShelby County Drainage Upgrades

ID#052000135SponsorShelby (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyShelby

Strategy descriptionEstablish a plan to upgrade stormwater conveyance capacity via drainage improvement projects

Goal(s)

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 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 risk8# of structures15Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Farm/Ranch land impacted (acres)56Roadway(s) impacted (miles)5

Number of low water crossings4Historical road closures4

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-

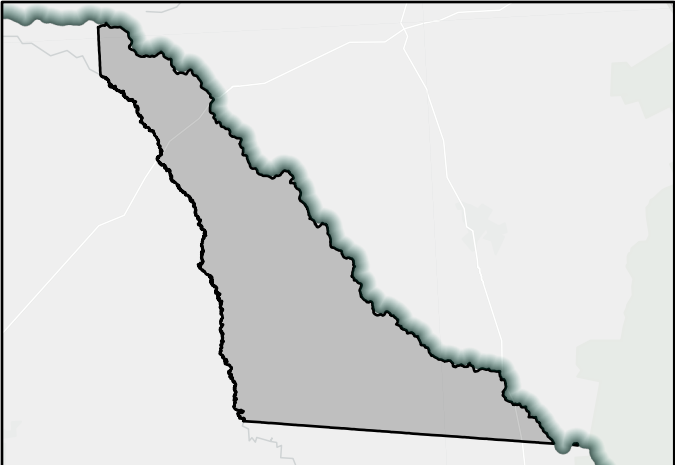
Impacts

Negative impacts?NoNegative impacts description-

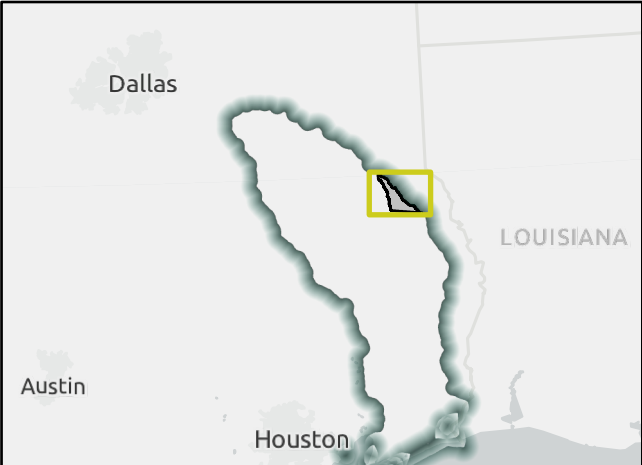
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5



TitleShelby County Facilities Hazard Hardening Retrofit

ID#052000136SponsorShelby (County)

RFPG recommend? YesReason for RecommendationComplies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

Strategy Details

Strategy typeInfrastructure ProjectsCountyShelby

Strategy descriptionEstablish a plan to storm-harden and/or retrofit existing and newly constructed critical facilities

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 risk8# of structures15Critical facilities0

Flood risk type: Riverine? YesCoastal? NoLocal? YesPlaya? NoOther? No

Farm/Ranch land impacted (acres)56Roadway(s) impacted (miles)5

Number of low water crossings4Historical road closures4

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 -

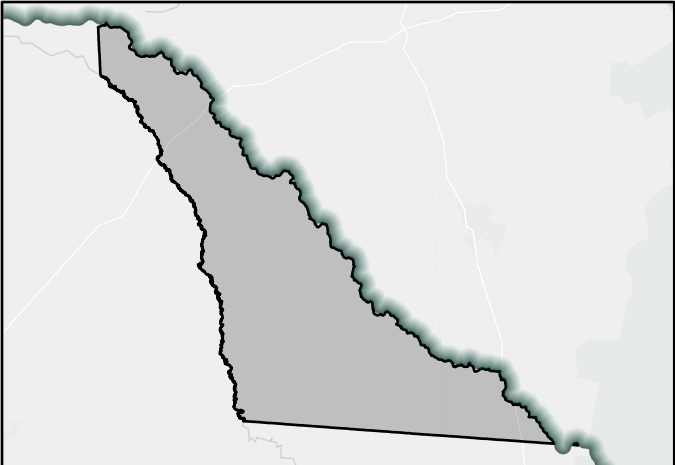
Impacts

Negative impacts? NoNegative impacts description-

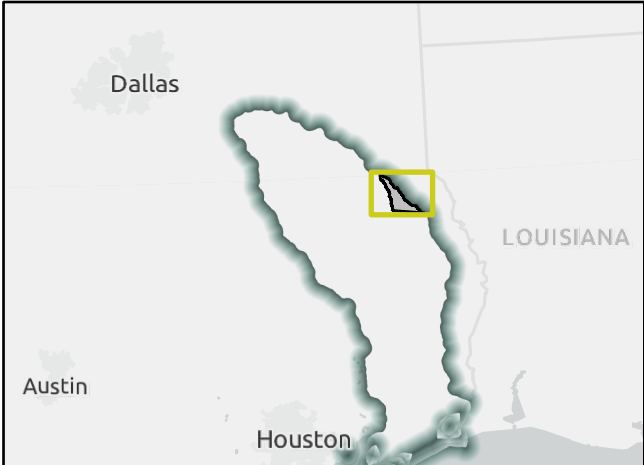
Water supply contributions? NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

REGIONAL FLOOD PLANNING GROUP

Title Shelby County Roadway/Bridge Elevation

ID# 052000137 Sponsor Shelby (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

Strategy Details

Strategy type Infrastructure Projects County Shelby

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 8 # of structures 15 Critical facilities 0

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

Farm/Ranch land impacted (acres) 56 Roadway(s) impacted (miles) 5

Number of low water crossings 4 Historical road closures 4

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 -

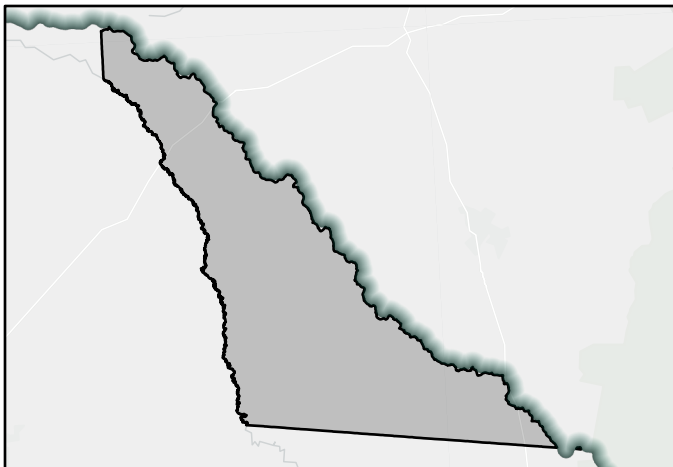
Impacts

Negative impacts? No Negative impacts description -

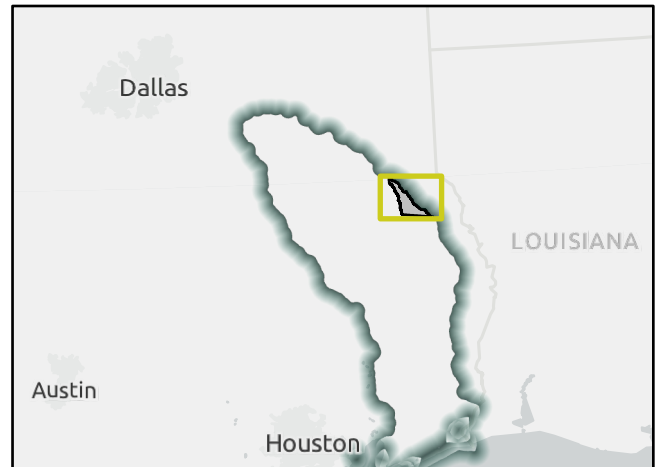
Water supply contributions? No Water supply contribution description -

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)

TitleCity of Tyler Open Channel Improvements

ID#052000138SponsorTyler (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountySmith

Strategy descriptionImplement 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(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 risk7,482# of structures1,042Critical facilities72

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

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

Number of low water crossings31Historical road closures31

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-

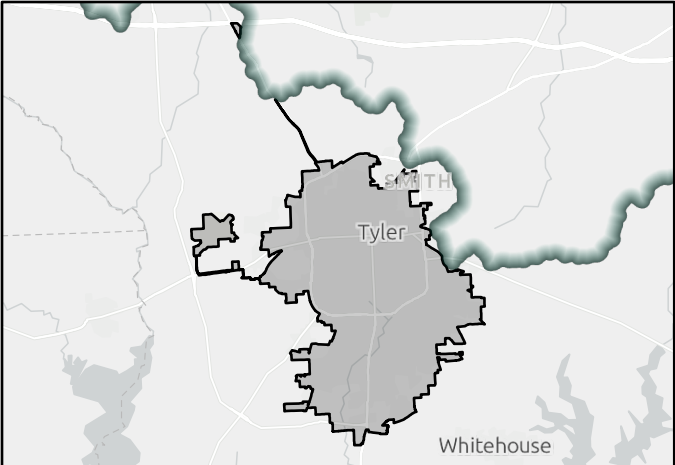
Impacts

Negative impacts?NoNegative impacts description-

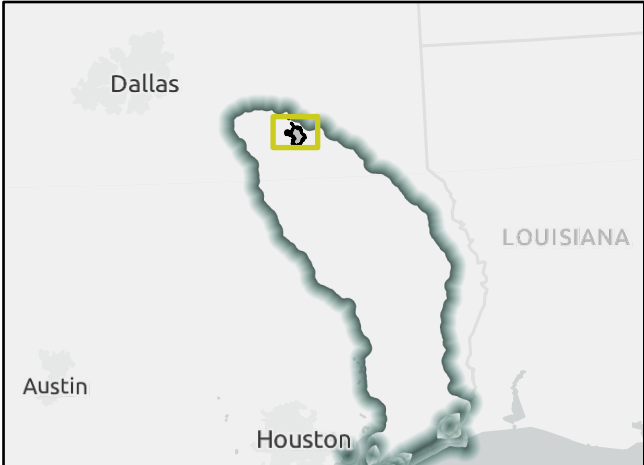
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,500,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Whitehouse Drainage Capacity Upgrades

ID#052000139SponsorWhitehouse (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountySmith

Strategy descriptionEstablish a plan to increase stormwater drainage capacity by completing a hydraulic study, evaluating historical water drainage, then constructing needed improvements.

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 risk98# of structures33Critical facilities0

Flood risk type:

Riverine?

Yes

Coastal?

No

Local?

Yes

Playa?

No

Other?

No

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

Number of low water crossings2Historical road closures2

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 -

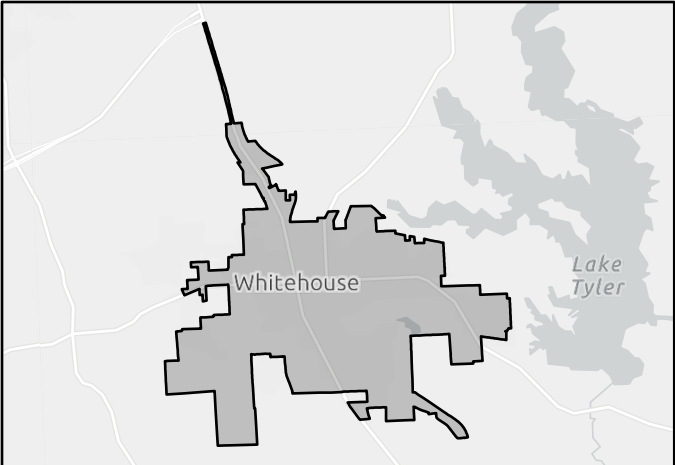
Impacts

Negative impacts?NoNegative impacts description-

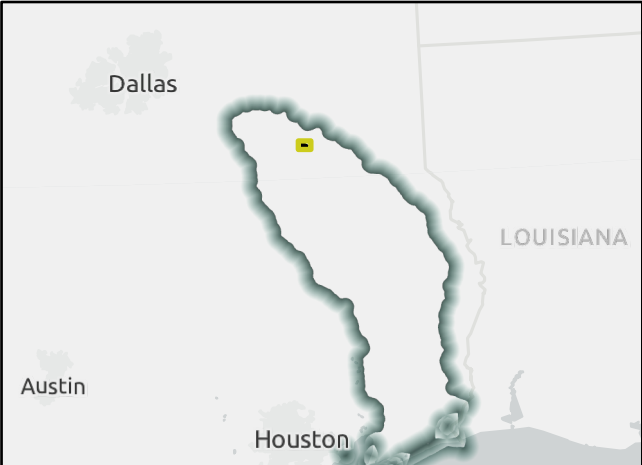
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$1,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleTrinity County Flood Infrastructure Upgrades

ID#052000140SponsorTrinity (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyTrinity

Strategy descriptionWithin the county, 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 risk15# of structures32Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Farm/Ranch land impacted (acres)68Roadway(s) impacted (miles)22

Number of low water crossings1Historical road closures1

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-

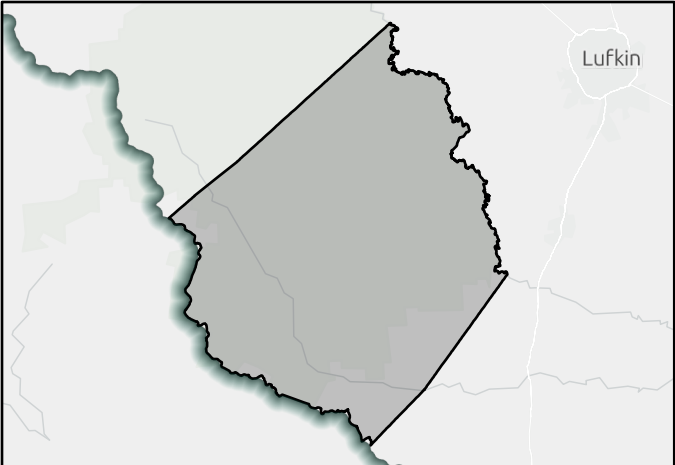
Impacts

Negative impacts?NoNegative impacts description-

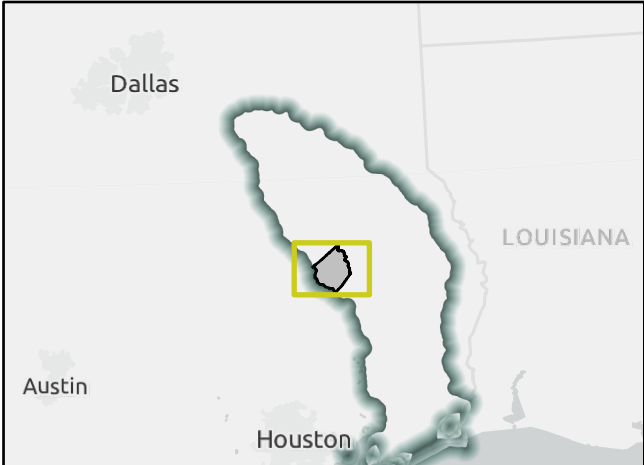
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleTrinity County Flood-prone Infrastructure Upgrades

ID#052000141SponsorTrinity (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyTrinity

Strategy descriptionDevelop 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(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 risk15# of structures32Critical facilities0

Flood risk type:Riverine?YesCoastal?NoLocal?YesPlaya?NoOther?No

Farm/Ranch land impacted (acres)68Roadway(s) impacted (miles)22

Number of low water crossings1Historical road closures1

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-

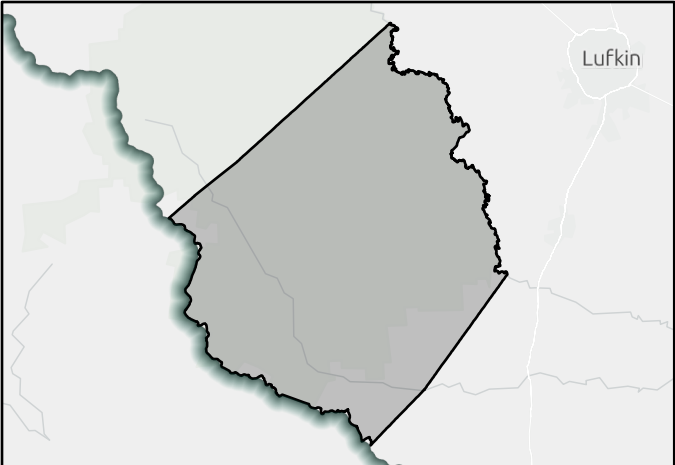
Impacts

Negative impacts?NoNegative impacts description-

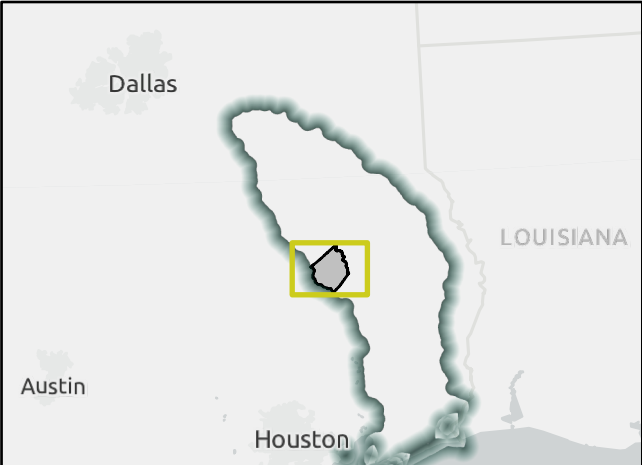
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleCity of Groveton Flood Infrastructure Upgrades

ID#052000142SponsorGroveton (Municipality)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyTrinity

Strategy descriptionWithin the city, develop a plan to install/improve culverts and headwalls in addition to expanding stormwater ditches and canals

Goal(s)

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 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 risk2# of structures3Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?No

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

Number of low water crossings0Historical road closures0

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 -

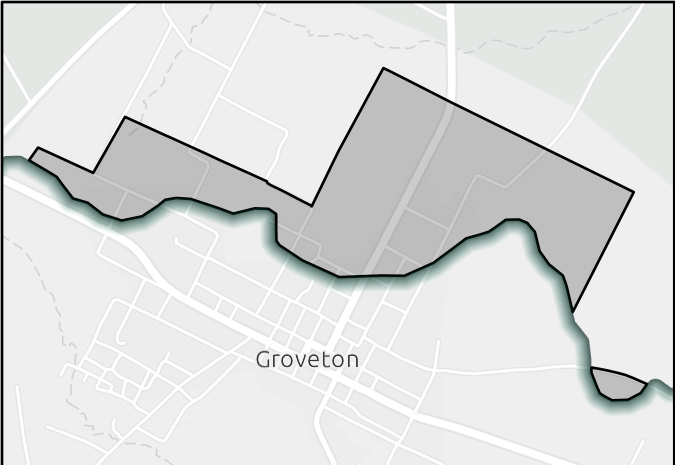
Impacts

Negative impacts?NoNegative impacts description-

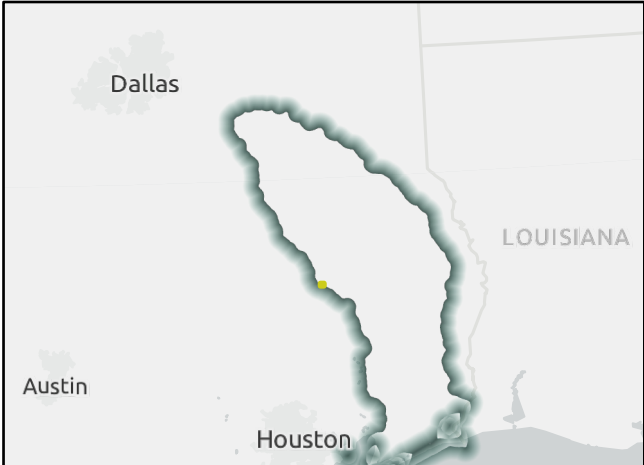
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$750,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleVan Zandt County Drainage Capacity Upgrades

ID#052000143SponsorVan Zandt (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyVan Zandt

Strategy descriptionEstablish a plan to increase Drainage Capacity; possible actions include installing French Drains, Building Elevation, and Upgrading Undersized Pipe under State Hwy for Water to Run into Creek.

Goal(s)

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 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 risk233# of structures217Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?Yes

Farm/Ranch land impacted (acres)232Roadway(s) impacted (miles)13

Number of low water crossings0Historical road closures0

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-

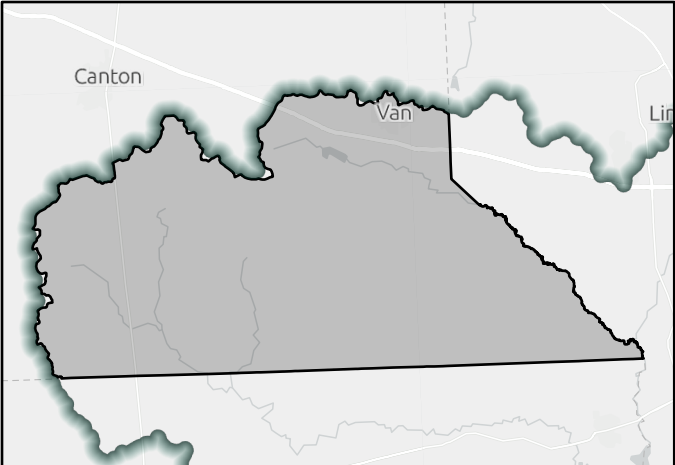
Impacts

Negative impacts?NoNegative impacts description-

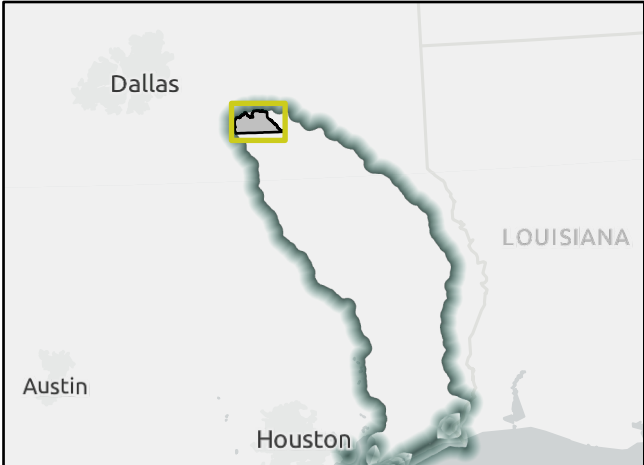
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title Van Zandt County Flood Infrastructure Maintenance

ID# 052000144 Sponsor Van Zandt (County)

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

Strategy Details

Strategy type Infrastructure Projects County Van Zandt

Strategy description Adopt and Implement a Program for Clearing Debris from Bridges, Drains and Culverts. Reduce damages caused by flooding by maintaining or restoring drainage capacity.

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 233 # of structures 217 Critical facilities 0

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

Farm/Ranch land impacted (acres) 232 Roadway(s) impacted (miles) 13

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 -

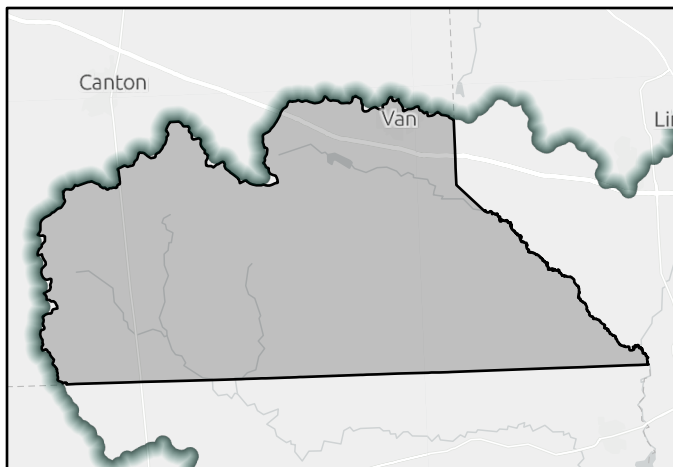
Impacts

Negative impacts? No Negative impacts description -

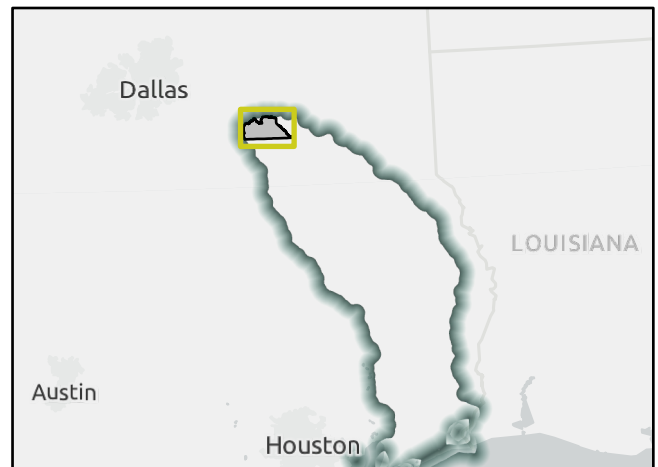
Water supply contributions? No Water supply contribution description -

Estimated Cost

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



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleVan Zandt County Road Elevation

ID#052000145SponsorVan Zandt (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeInfrastructure ProjectsCountyVan Zandt

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

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 risk233# of structures217Critical facilities0

Flood risk type:

Riverine?Yes

Coastal?No

Local?Yes

Playa?No

Other?Yes

Farm/Ranch land impacted (acres)232Roadway(s) impacted (miles)13

Number of low water crossings0Historical road closures0

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 -

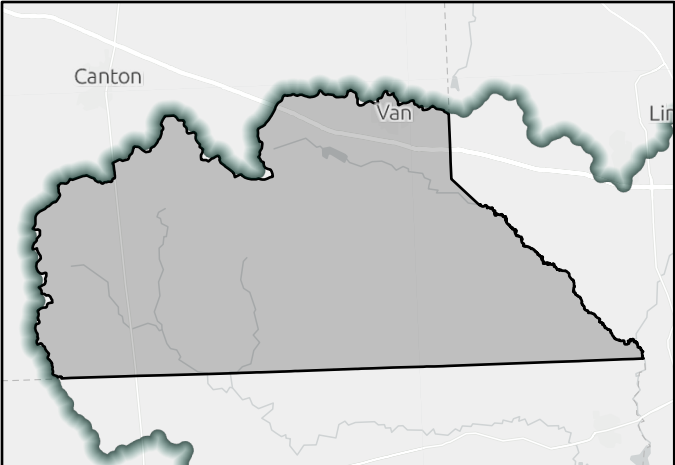
Impacts

Negative impacts?NoNegative impacts description-

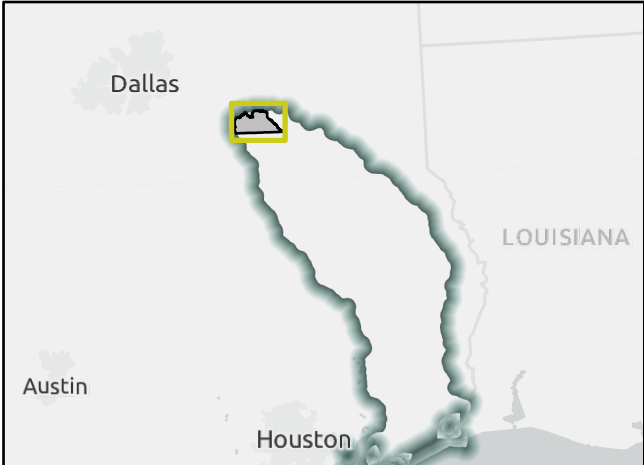
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$2,000,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

TitleLiberty County Topographical Mapping Update

ID#052000146SponsorLiberty (County)

RFPG recommend?YesReason for RecommendationComplies with RFPG Goals

Strategy Details

Strategy typeOtherCountyLiberty

Strategy descriptionPurchase updated topographical maps/complete LiDAR aerial survey for drainage plan.

Goal(s)

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 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 risk143# of structures116Critical facilities1

Flood risk type:Riverine?YesCoastal?NoLocal?NoPlaya?NoOther?Yes

Farm/Ranch land impacted (acres)1,526Roadway(s) impacted (miles)7

Number of low water crossings0Historical road closures0

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 -

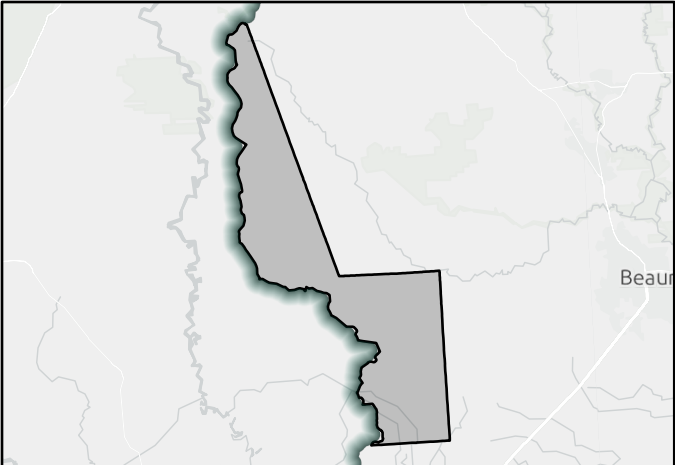
Impacts

Negative impacts?NoNegative impacts description-

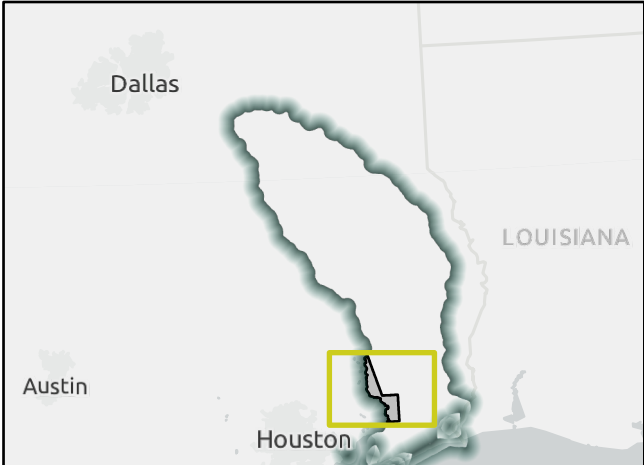
Water supply contributions?NoWater supply contribution description-

Estimated Cost

Strategy Cost\$107,000Amount of available funding-% Nature-Based0



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

REGION 5

NECHES

Title Liberty County Drainage District Multi-County Coordination

ID# 052000147 Sponsor Liberty County Drainage District

RFPG recommend? Yes Reason for Recommendation Complies with RFPG Goals

REGIONAL FLOOD PLANNING GROUP

Strategy Details

Strategy type Other

County Liberty

Strategy description Work with adjoining counties regarding flood and drainage issues.

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 143

of structures 116

Critical facilities 1

Flood risk type: Riverine? Yes

Coastal? No

Local? No

Playa? No

Other? Yes

Farm/Ranch land impacted (acres) 1,526

Roadway(s) impacted (miles) 7

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

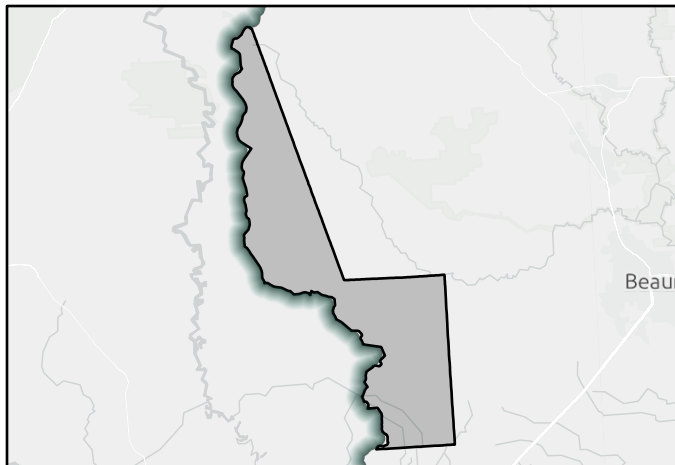
Water supply contribution description -

Estimated Cost

Strategy Cost \$50,000

Amount of available funding -

% Nature-Based 0



FMS area



Regional view of FMS area

Flood Mitigation Project (FMP)

REGION 5

NECHES

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 (mi² 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

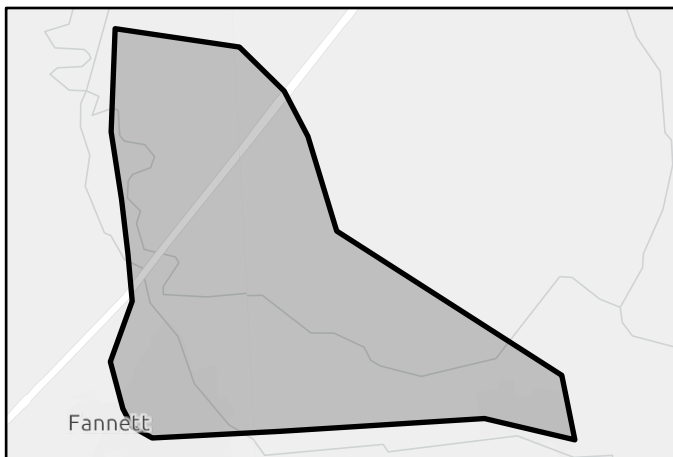
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

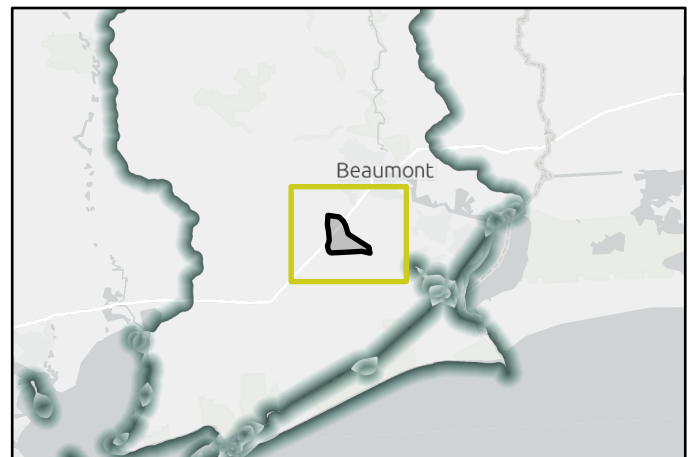
Estimated Cost

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

NECHES

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 (mi² 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 -

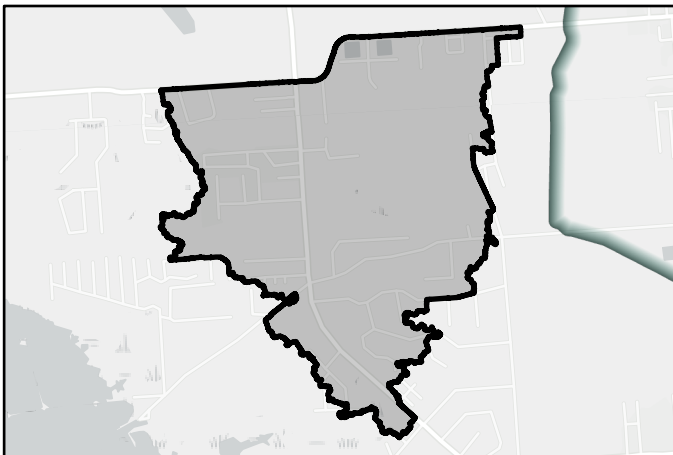
Water supply contributions? No Water supply contribution description -

Estimated Cost

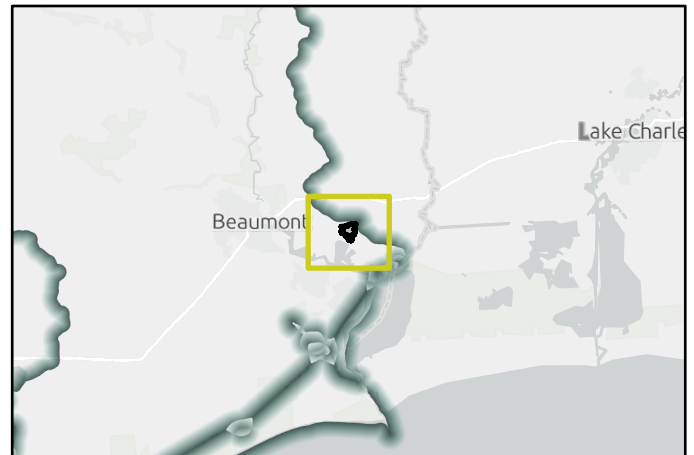
Project Cost \$4,250,000 % Nature-Based - BCR 0

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 Channel 100-A Concrete Repair

ID# 053000003 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

Conduct repairs and install improvements to Channel 100-A located within the city of Beaumont.

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

Drainage area (mi² est.) 3

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 9,745 # of structures 1,622 Critical facilities 9

Farm/Ranch land impacted (acres) 2 Roadway(s) impacted (length) 24

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr 53 # of structures removed from 100-yr 10

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 Annual ecosystem services benefits of \$1,944,072. Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description -

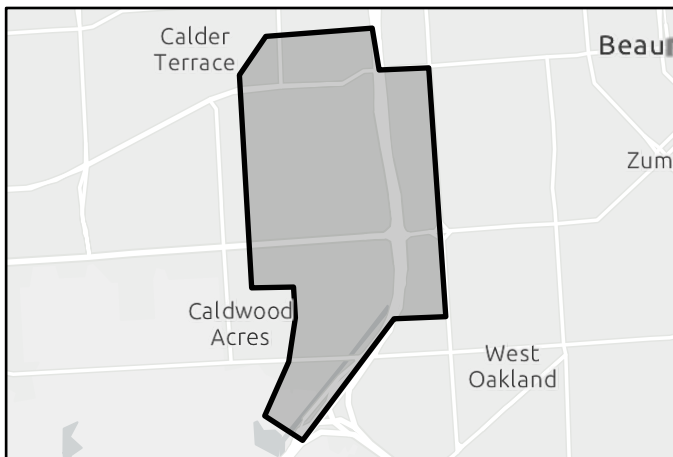
Water supply contributions? No Water supply contribution description -

Estimated Cost

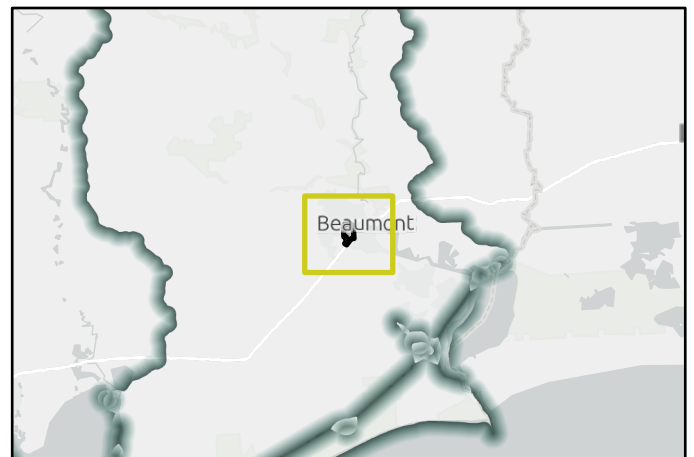
Project Cost \$39,570,866 % Nature-Based - BCR 11

Recurring costs \$2,873,418

Issues There is a high density of residential 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 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 (mi² 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

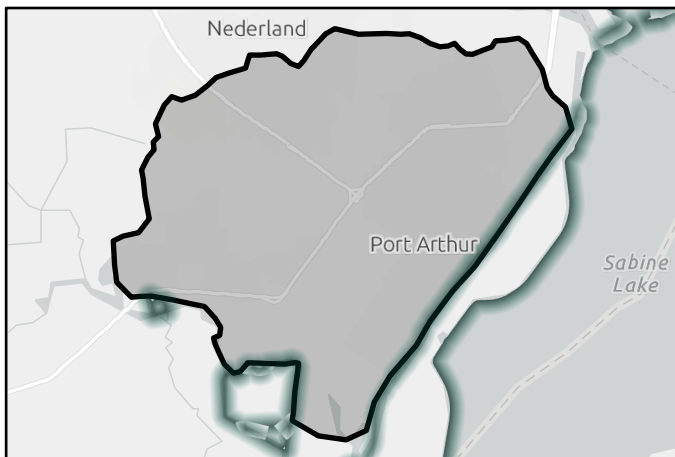
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

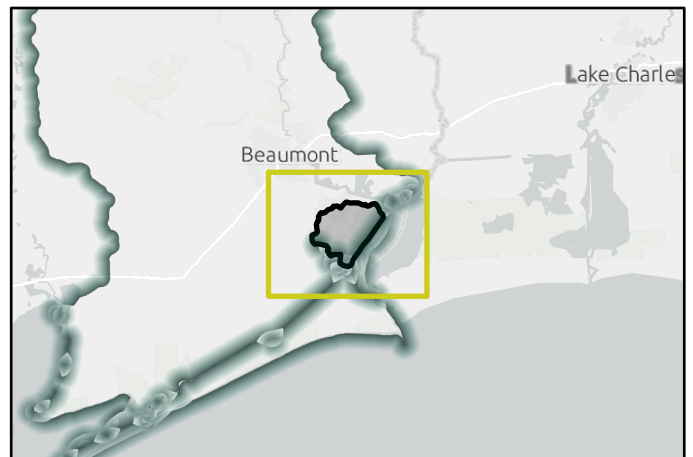
Estimated Cost

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

NECHES

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 (mi² 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

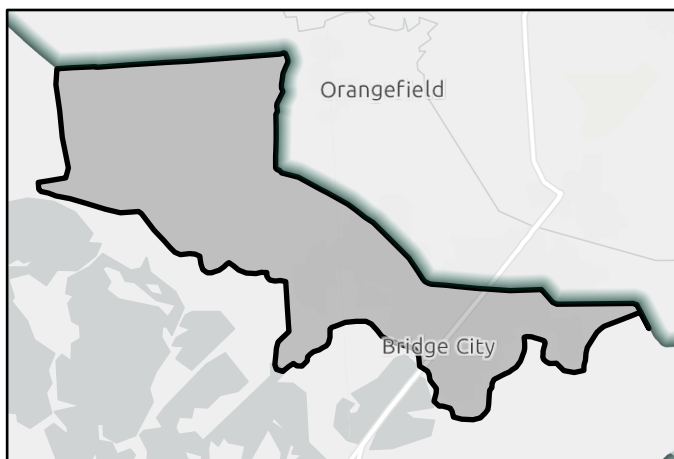
Negative impacts? No Negative impacts description -

Water supply contributions? No Water supply contribution description -

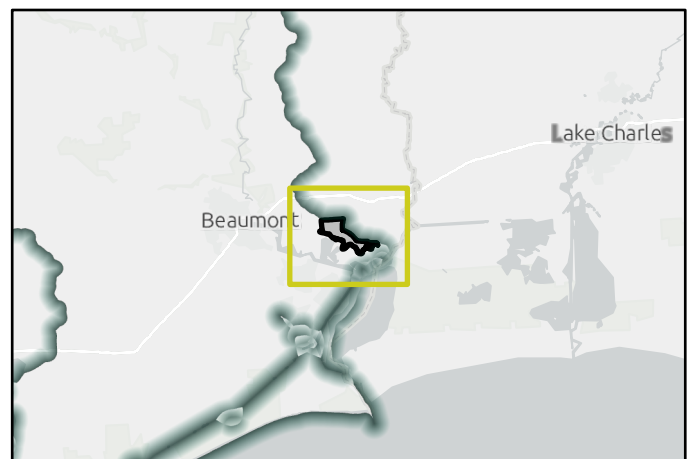
Estimated Cost

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