VOLUME 2
Appendix 5-C

FINAL
REGION 5 NECHES 2023 REGIONAL FLOOD PLAN

JANUARY 2023

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 Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Shelby County Master Drainage Plan

ID#: 051000039 Sponsor: Shelby (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Shelby

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 160

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.
Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 8 # of structures: 15 # of critical facilities: 0

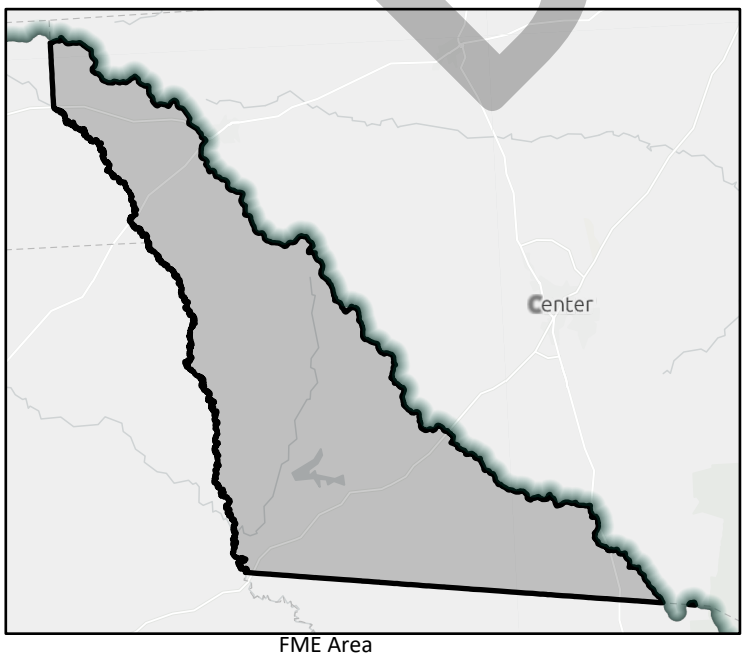
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 56 Roadways impacted (miles): 5

# of low water crossings: 4 # of historical road closures: 4

Estimated Cost and Funding Availability

Total Cost: $1,250,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Smith County Master Drainage Plan

ID#: 051000040 Sponsor: Smith (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Smith

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 510

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.
Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 8,524 # of structures: 2,347 # of critical facilities: 72

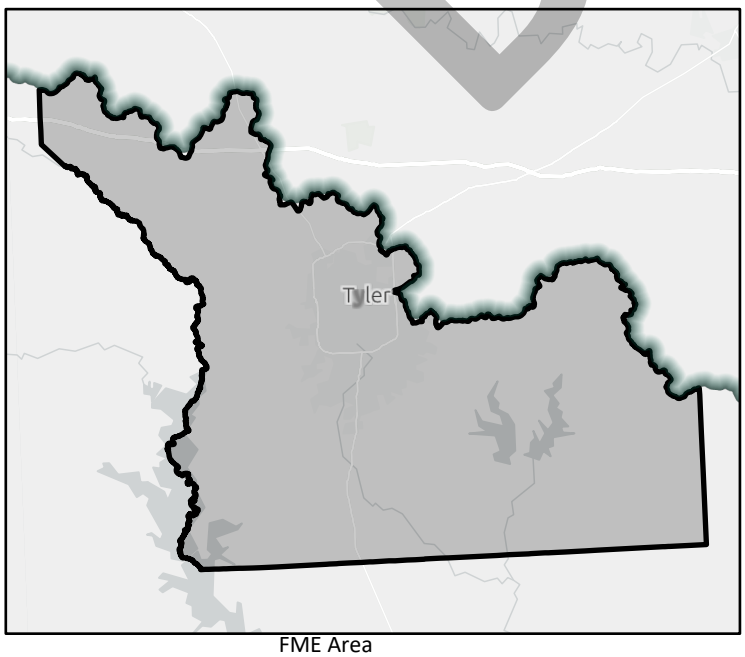
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? Yes

Farm/Ranch land impacted (ac.): 216 Roadways impacted (miles): 50

# of low water crossings: 42 # of historical road closures: 42

Estimated Cost and Funding Availability

Total Cost: $538,612 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5
NECHES
REGIONAL FLOOD PLANNING GROUP

Title: Trinity County Master Drainage Plan

ID#: 051000041 Sponsor: Trinity (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Trinity

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 342

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.
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Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 15 # of structures: 32 # of critical facilities: 0

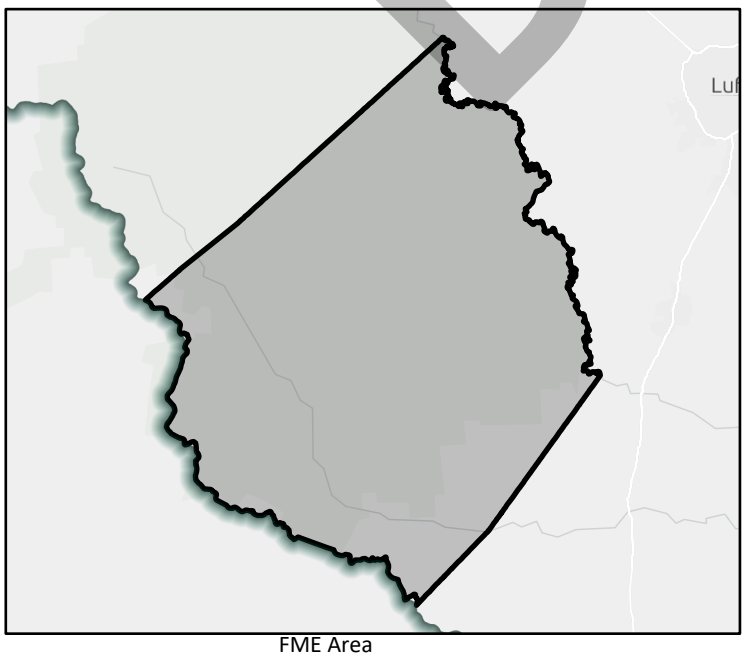
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 68 Roadways impacted (miles): 22

# of low water crossings: 1 # of historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $481,324 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Tyler County Master Drainage Plan

ID#: 051000042 Sponsor: Tyler (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Tyler

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 932

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.
Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 329 # of structures: 545 # of critical facilities: 0

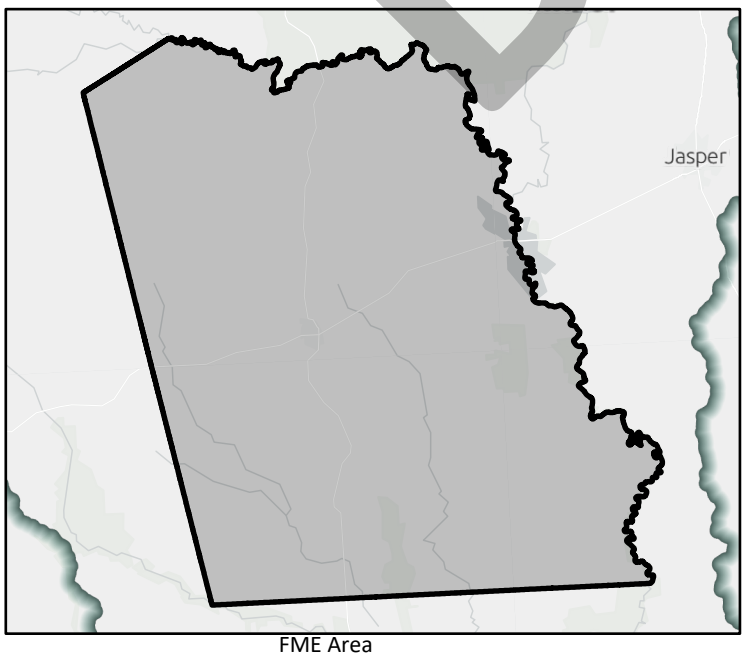
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 82 Roadways impacted (miles): 42

# of low water crossings: 8 # of historical road closures: 8

Estimated Cost and Funding Availability

Total Cost: $700,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Van Zandt County Master Drainage Plan

ID#: 051000043 Sponsor: Van Zandt (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Van Zandt

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 244

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.
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Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 233 # of structures: 217 # of critical facilities: 0

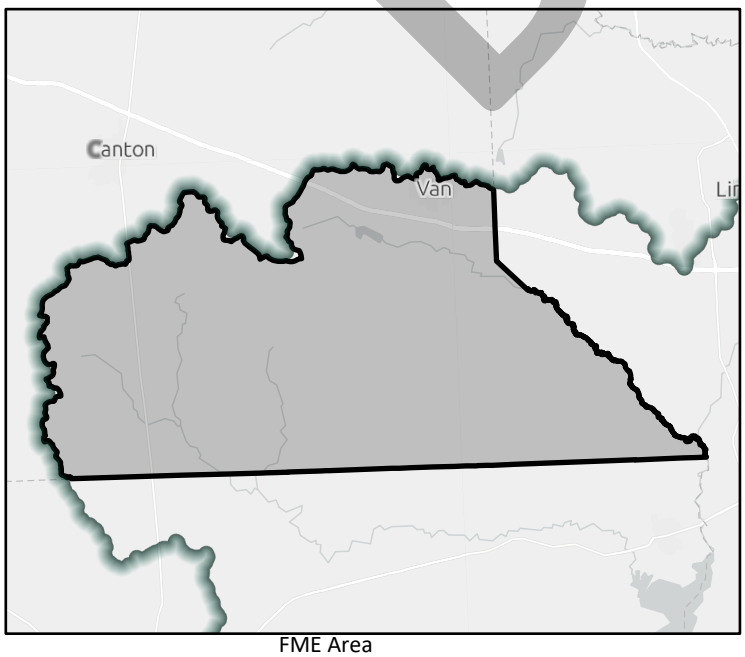
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? Yes

Farm/Ranch land impacted (ac.): 232 Roadways impacted (miles): 13

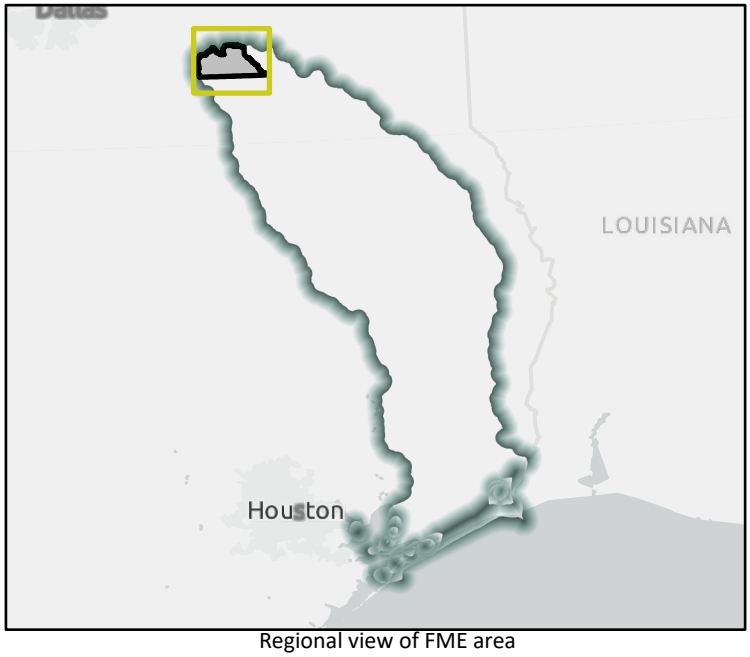
# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $484,386 Potential federal funding availability? Yes Potential Federal Funding Sources: FIF Grants; Local Funds



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Palestine Master Drainage Plan

ID# 051000044 Sponsor: Palestine (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Anderson

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 7

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 42 # of structures: 14 # of critical facilities: 0

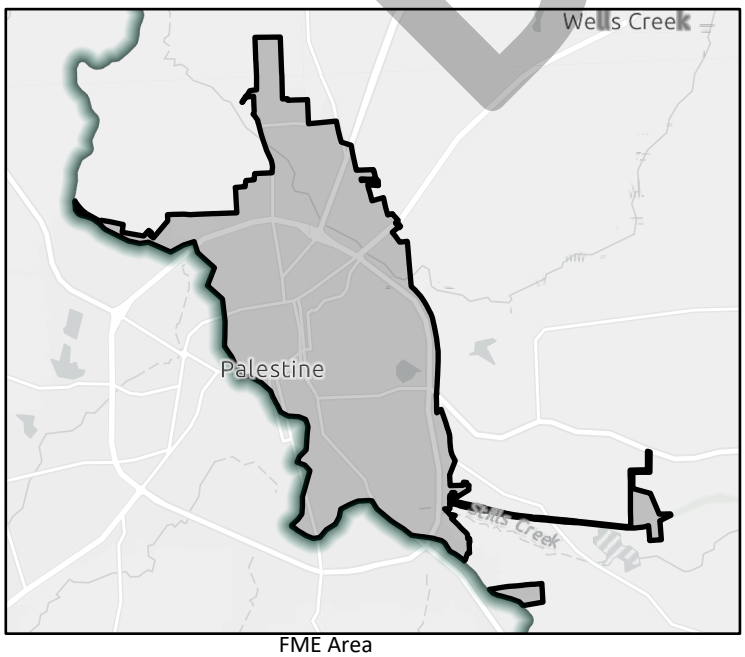
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 2 Roadways impacted (miles): 2

# of low water crossings: 2 # of historical road closures: 2

Estimated Cost and Funding Availability

Total Cost: $700,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lufkin Master Drainage Plan

ID#: 051000045 Sponsor: Lufkin (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Angelina

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 35

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.
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Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 7,464 # of structures: 868 # of critical facilities: 5

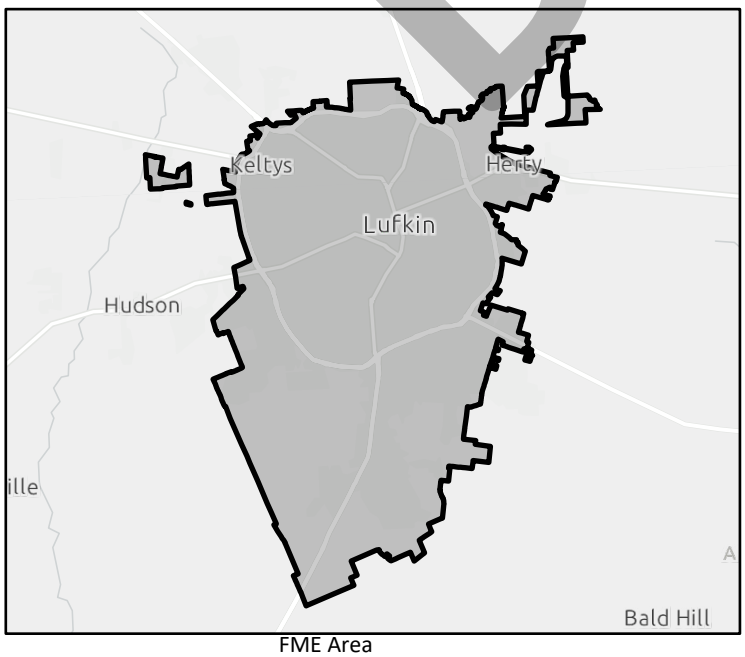
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? Yes

Farm/Ranch land impacted (ac.): 3 Roadways impacted (miles): 23

# of low water crossings: 12 # of historical road closures: 12

Estimated Cost and Funding Availability

Total Cost: $1,000,000 Potential federal funding availability? Yes Potential Federal Funding Sources: HMGP, PDM, FMA, budget



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5
NECHES
REGIONAL FLOOD PLANNING GROUP

Title: City of Jacksonville Master Drainage Plan

ID#: 051000046 Sponsor: Jacksonville (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Cherokee

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 17

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 663 # of structures: 367 # of critical facilities: 0

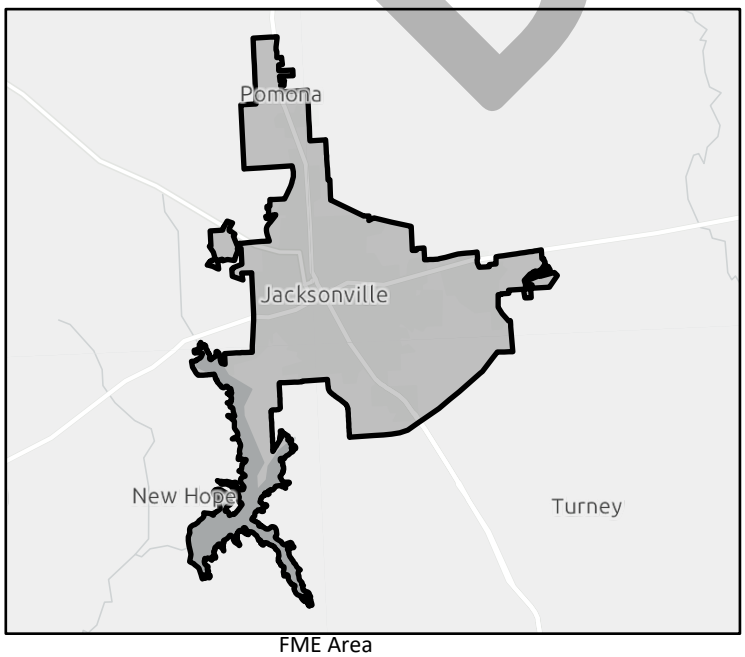
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 5 Roadways impacted (miles): 4

# of low water crossings: 7 # of historical road closures: 7

Estimated Cost and Funding Availability

Total Cost: $560,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Rusk Master Drainage Plan

ID#: 051000047 Sponsor: Rusk (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Cherokee

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? No Drainage area (sq. mi., est.) 7

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 462 # of structures: 41 # of critical facilities: 0

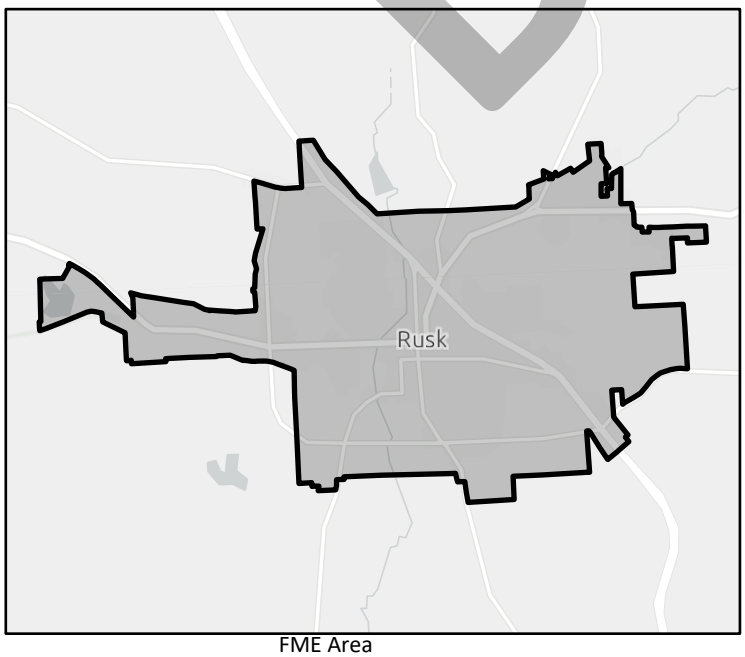
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 2 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $280,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lumberton Master Drainage Plan

ID#: 051000048 Sponsor: Lumberton (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Hardin

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 11

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.
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Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 631 # of structures: 230 # of critical facilities: 0

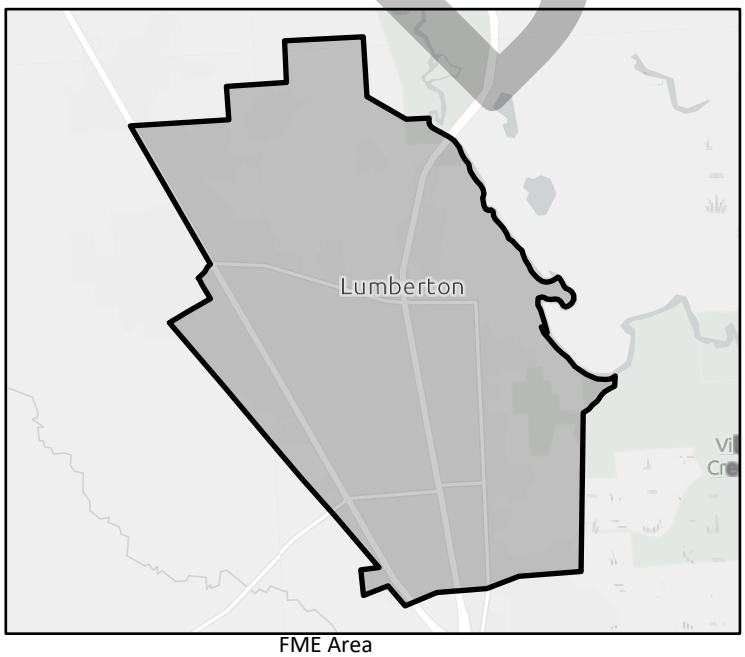
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 6 Roadways impacted (miles): 4

# of low water crossings: 1 # of historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $380,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Rose Hill Acres Master Drainage Plan

ID#: 051000049 Sponsor: Rose Hill Acres (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Hardin

Study description: Develop drainage study to identify flood mitigation measures and drainage improvements including purchase of easements in the ETJ or a possible MOU to implement improvements.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 0

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.
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Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 237 # of structures: 129 # of critical facilities: 0

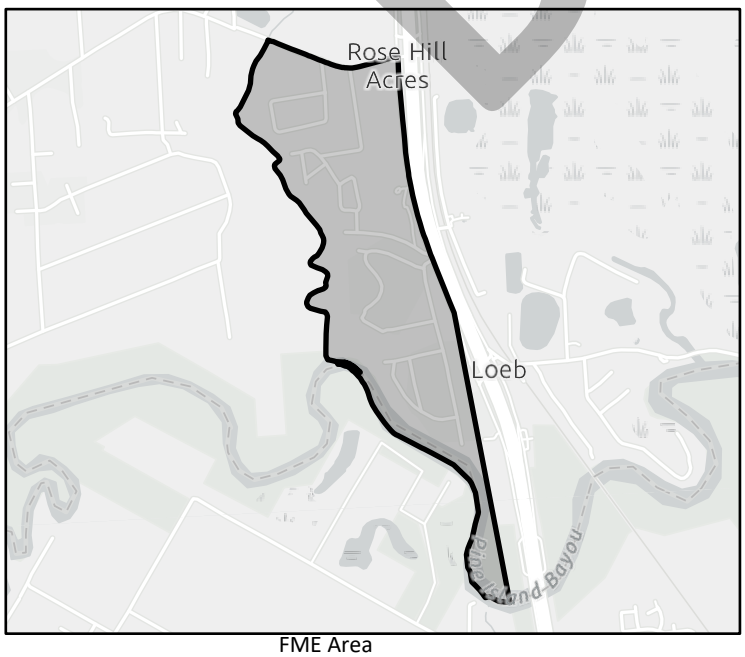
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $200,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Silsbee Master Drainage Plan

ID#: 051000050 Sponsor: Silsbee (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Hardin

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 8

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.
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Goal 4: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 778 # of structures: 88 # of critical facilities: 2

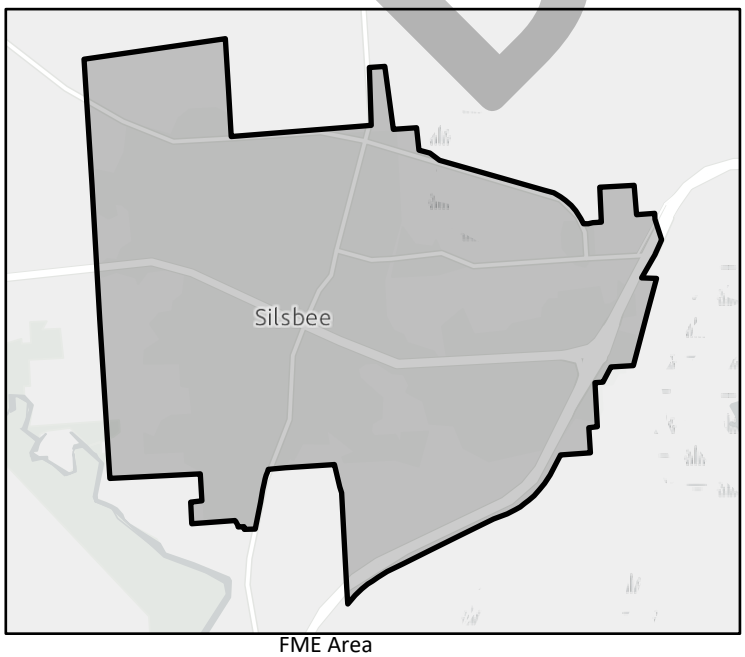
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 1 Roadways impacted (miles): 2

# of low water crossings: 3 # of historical road closures: 3

Estimated Cost and Funding Availability

Total Cost: $320,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Athens Master Drainage Plan

ID#: 051000051 Sponsor: Athens (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Henderson

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? No Drainage area (sq. mi., est.) 1

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 0 # of structures: 0 # of critical facilities: 0

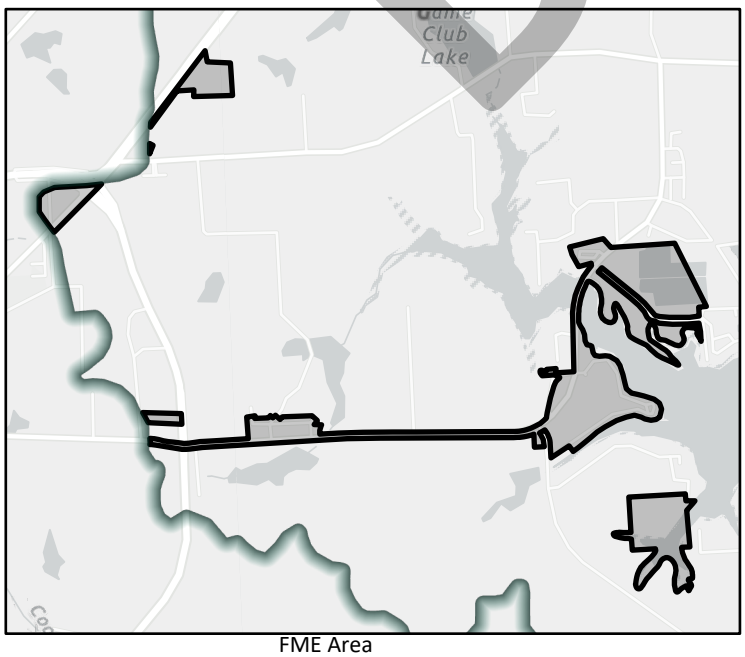
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $31,056 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Jasper Master Drainage Plan

ID#: 051000052 Sponsor: Jasper (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Jasper

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 11

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 1,141 # of structures: 171 # of critical facilities: 7

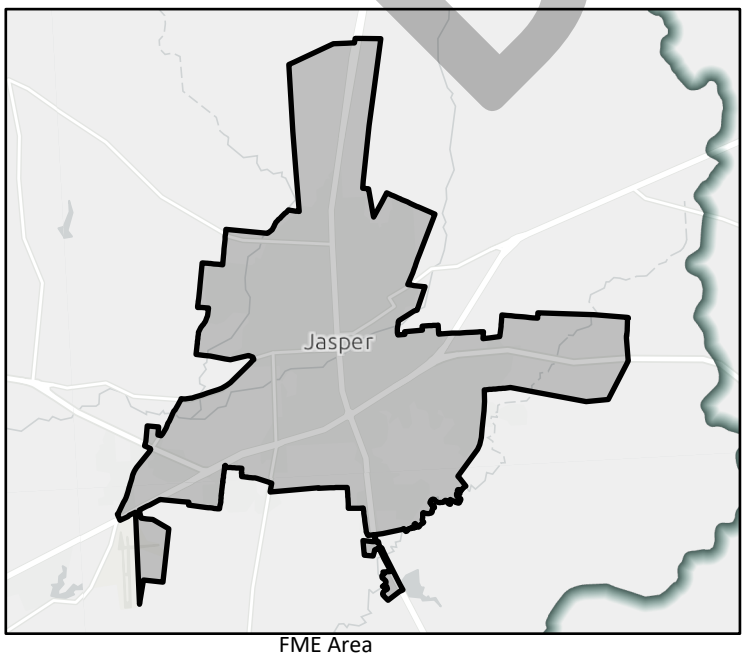
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 2 Roadways impacted (miles): 6

# of low water crossings: 2 # of historical road closures: 2

Estimated Cost and Funding Availability

Total Cost: $440,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Beaumont Master Drainage Plan

ID#: 051000053 Sponsor: Beaumont (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Jefferson

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 85

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 12,713 # of structures: 2,546 # of critical facilities: 16

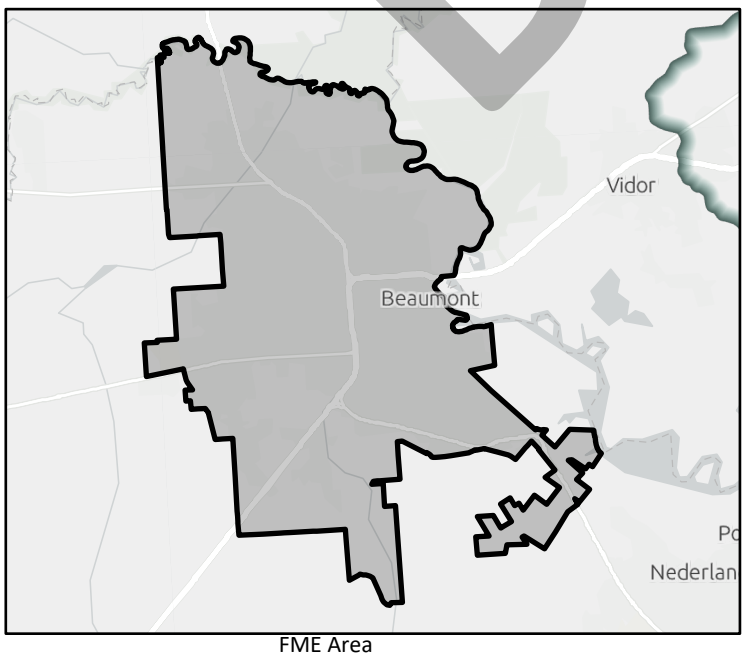
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 120 Roadways impacted (miles): 55

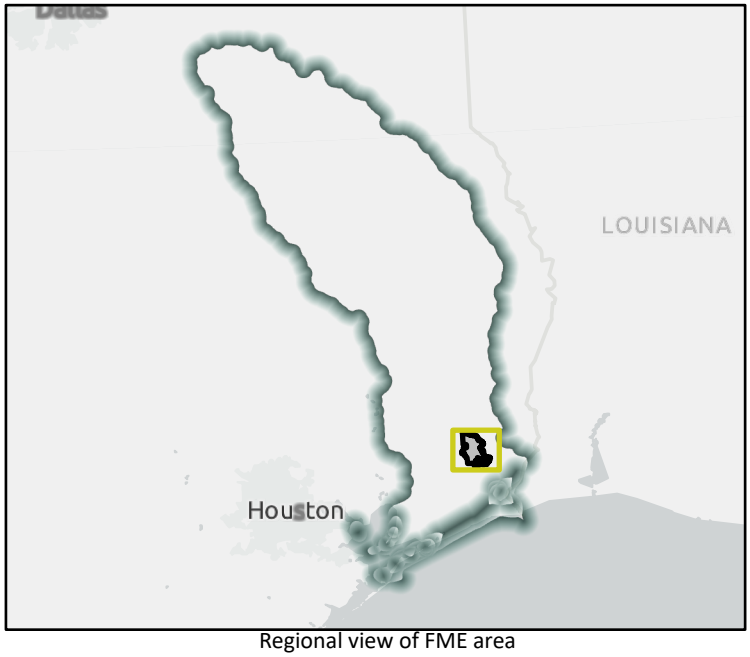
# of low water crossings: 4 # of historical road closures: 4

Estimated Cost and Funding Availability

Total Cost: $600,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Nederland Master Drainage Plan

ID#: 051000054 Sponsor: Nederland (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Jefferson

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 6

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 1,050 # of structures: 381 # of critical facilities: 3

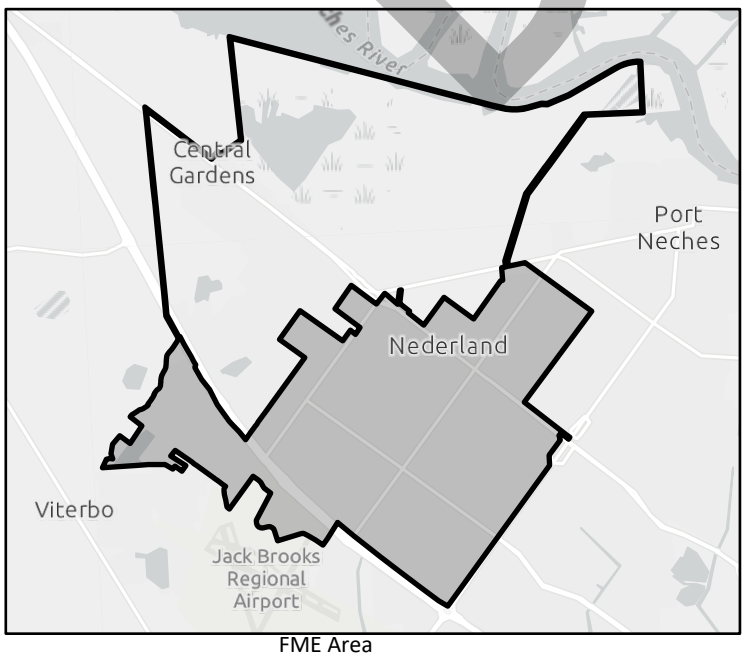
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 1 Roadways impacted (miles): 3

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $240,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Nacogdoches Update Flood Control Study

ID#: 051000055 Sponsor: Nacogdoches (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Nacogdoches

Study description: Conduct Flood Control Study and implement actions such as channelization, detention, retention, etc to stop repetitive flood losses.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 28

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

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

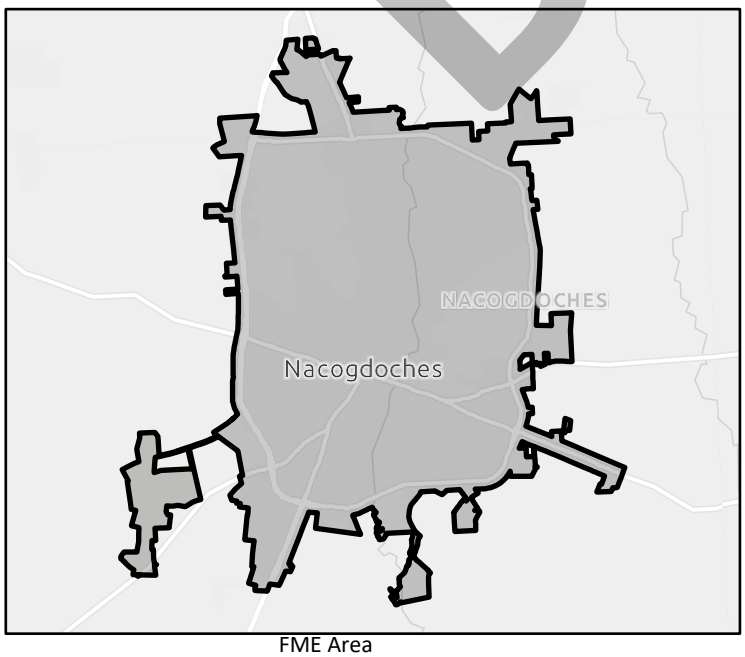
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 4 Roadways impacted (miles): 14

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $1,080,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Henderson Master Drainage Plan

ID#: 051000056 Sponsor: Henderson (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Rusk

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? No Drainage area (sq. mi., est.) 10

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 97 # of structures: 37 # of critical facilities: 0

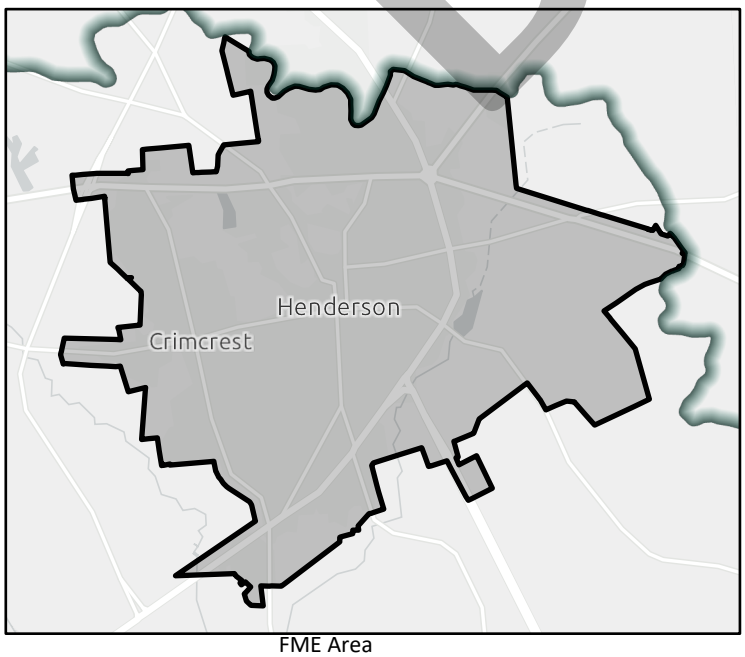
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 5 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $480,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Arp Master Drainage Plan

ID#: 051000057 Sponsor: Arp (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Smith

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? No Drainage area (sq. mi., est.) 3

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 0 # of structures: 0 # of critical facilities: 0

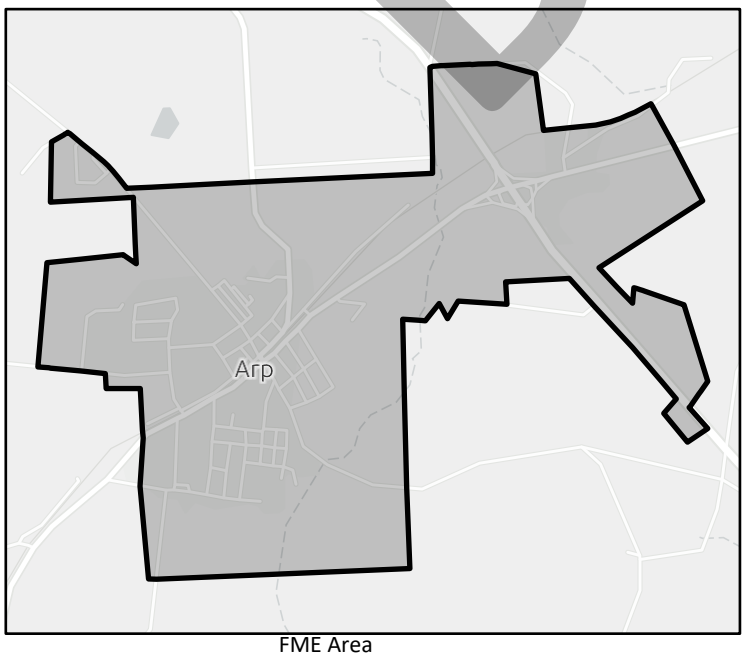
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $1,300,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Tyler Master Drainage Plan

ID#: 051000058 Sponsor: Tyler (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Smith

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 56

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 7,482 # of structures: 1,042 # of critical facilities: 72

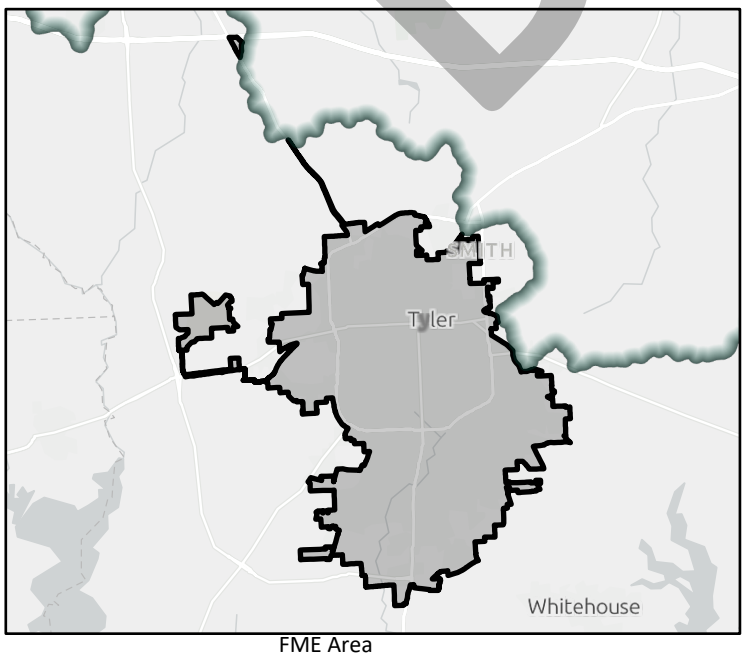
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 4 Roadways impacted (miles): 23

# of low water crossings: 31 # of historical road closures: 31

Estimated Cost and Funding Availability

Total Cost: $2,200,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Whitehouse Master Drainage Plan

ID#: 051000059 Sponsor: Whitehouse (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Watershed Planning County: Smith

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 5

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 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%.
Goal 5: 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 6: 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.

100-Year Flood Risk Summary

Population at risk: 97 # of structures: 36 # of critical facilities: 0

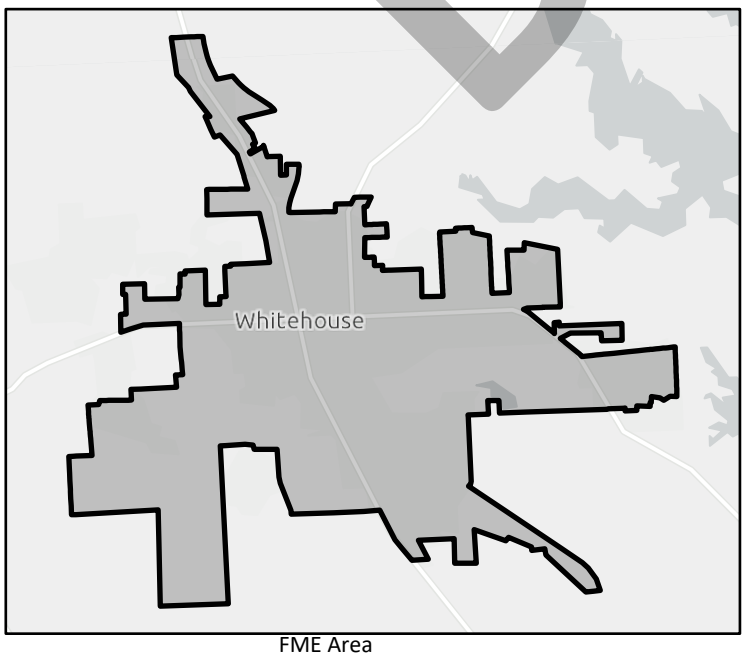
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 2 Roadways impacted (miles): 1

# of low water crossings: 1 # of historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $150,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5
NECHES
REGIONAL FLOOD PLANNING GROUP

Title: Willie Nerron Road and Gillan Creek Bridge Replacement

ID#: 051000060 Sponsor: Angelina (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Angelina

Study description: Evaluate bridge improvements (upgrade bridge and increase channel flow) to current crossing to develop costs, quantify benefits, evaluate impacts, and begin design.

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? Yes Drainage area (sq. mi., est.) 2

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.

100-Year Flood Risk Summary

Population at risk: 0 # of structures: 0 # of critical facilities: 0

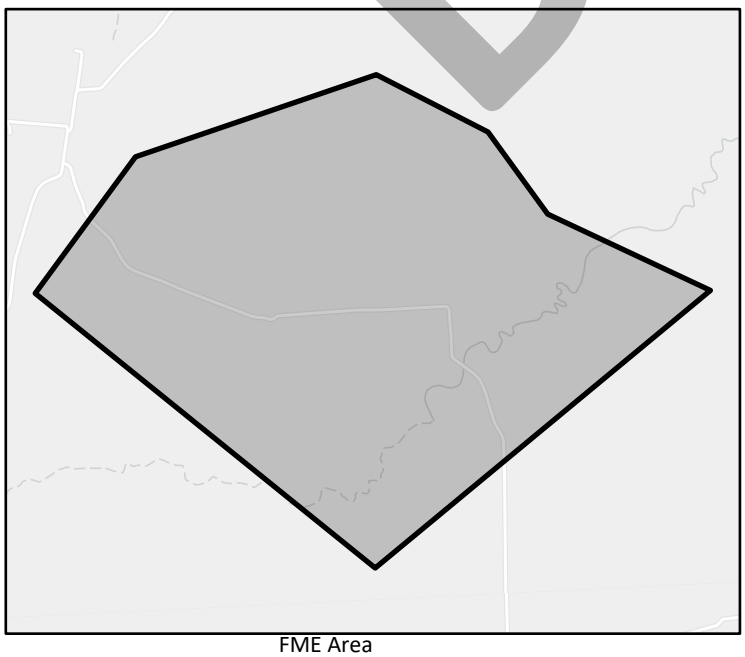
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $325,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hall Street over White Oak Creek Bridge Improvements

ID#: 051000061 Sponsor: Diboll (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Angelina

Study description: Evaluate alternatives to elevate bridge over White Oak Creek on Hall St going into the park

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 41

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.

100-Year Flood Risk Summary

Population at risk: 703 # of structures: 155 # of critical facilities: 6

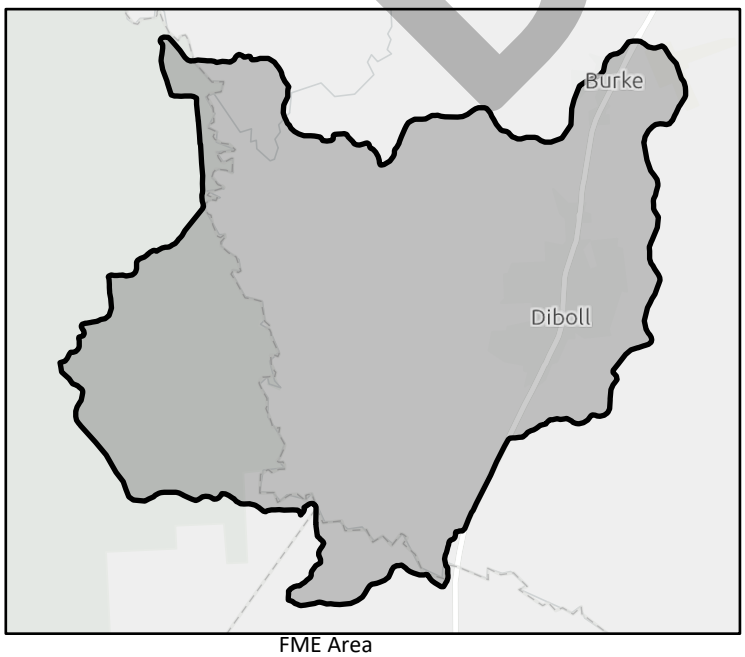
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 15 Roadways impacted (miles): 7

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $103,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Preliminary Engineering of Gibsonville Street and Porterville Road Bridges Improvements

ID# 051000062 Sponsor: Huntington (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Angelina

Study description: Evaluate alternatives to raise bridges on Gibsonville St. and Porterville Road to increase flow of creek under.

FME to create new H&H model? Yes Emergency Need? No Anticipated models in near term? No Drainage area (sq. mi., est.) 48

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.

100-Year Flood Risk Summary

Population at risk: 0 # of structures: 6 # of critical facilities: 0

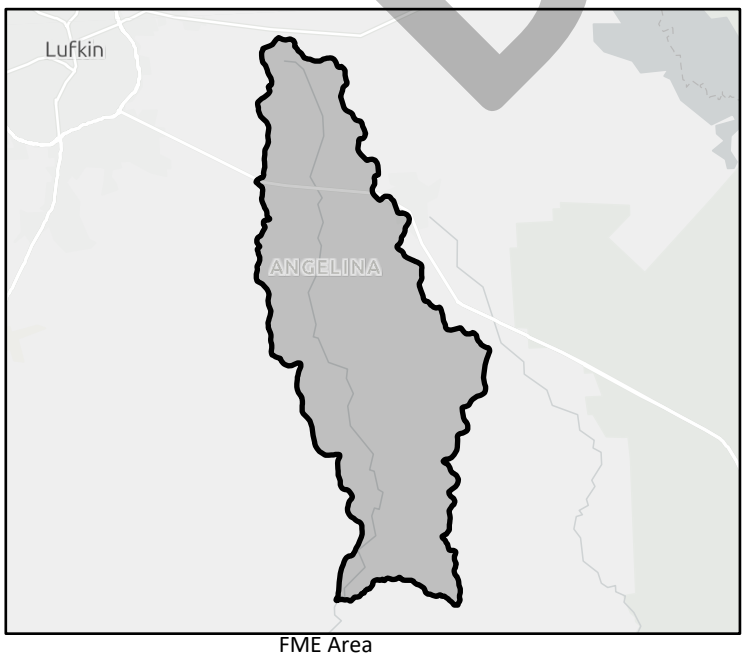
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 4 Roadways impacted (miles): 3

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $650,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Shawnee Creek Concrete Canal

ID#: 051000063 Sponsor: Huntington (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Angelina

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design for a concrete canal for Shawnee Creek from Louisiana Street to 6th Street.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 40

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.

100-Year Flood Risk Summary

Population at risk: 22 # of structures: 17 # of critical facilities: 0

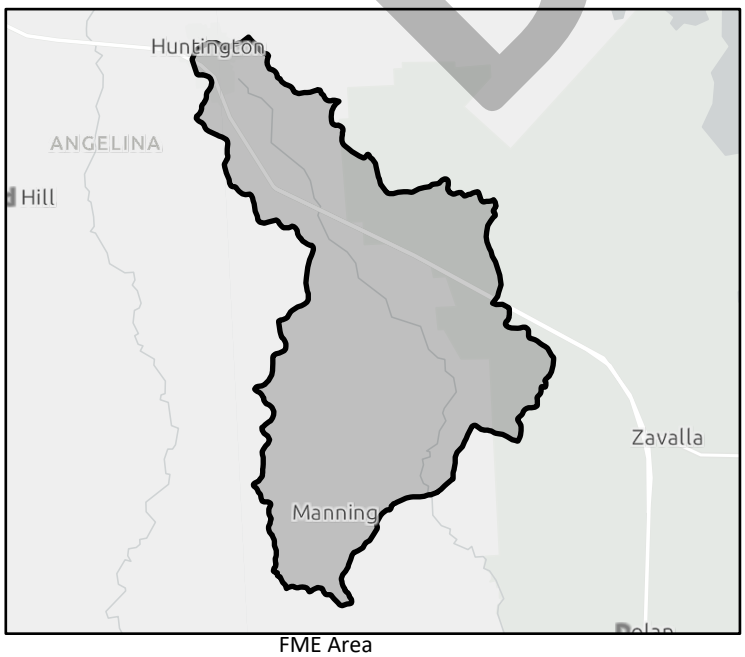
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 5 Roadways impacted (miles): 2

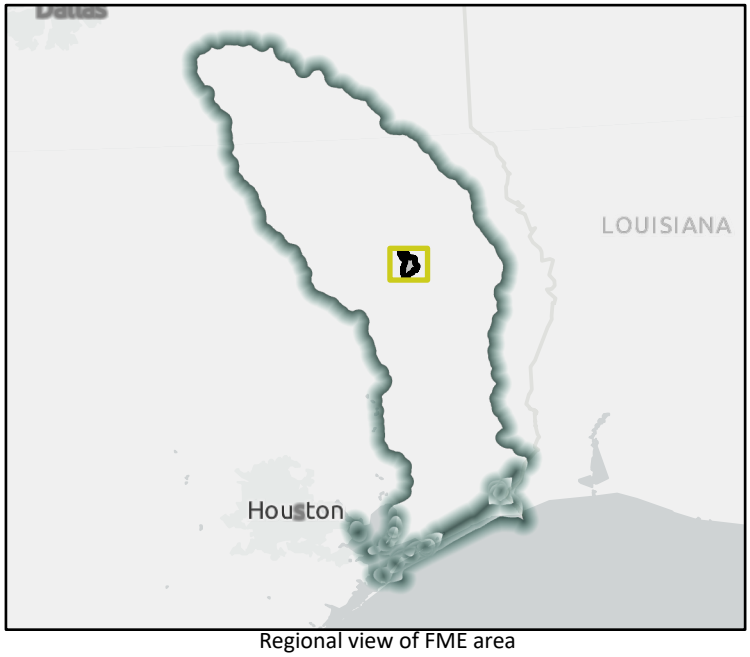
# of low water crossings: 2 # of historical road closures: 2

Estimated Cost and Funding Availability

Total Cost: $390,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lufkin Detention Pond Construction and Improvements

ID#: 051000064 Sponsor: Lufkin (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Angelina

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design for a retention pond behind Inez Timms property. Increase holding capacity of existing retention ponds throughout the city.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 220

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.
Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 7,640 # of structures: 969 # of critical facilities: 5

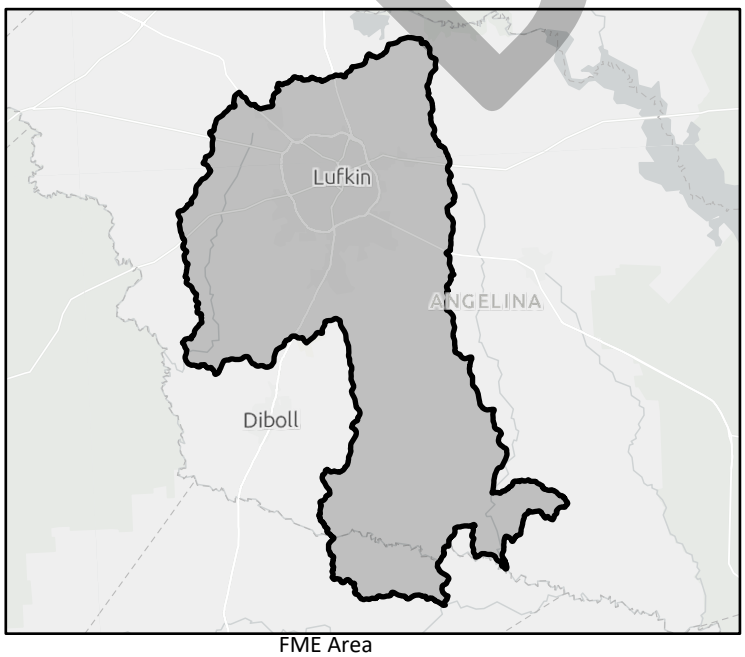
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? Yes

Farm/Ranch land impacted (ac.): 37 Roadways impacted (miles): 34

# of low water crossings: 16 # of historical road closures: 16

Estimated Cost and Funding Availability

Total Cost: $82,500 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Anahuac, North of Canal Drainage

ID#: 051000065 Sponsor: Chambers (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Chambers

Study description: Study to identify possible drainage improvements in the city limits of Anahuac. Study will focus on the area north of the Chambers-Liberty Counties Navigation District canal generally along N. Main Street, Texas Avenue, and Work Street.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 139

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.

100-Year Flood Risk Summary

Population at risk: 1,134 # of structures: 949 # of critical facilities: 0

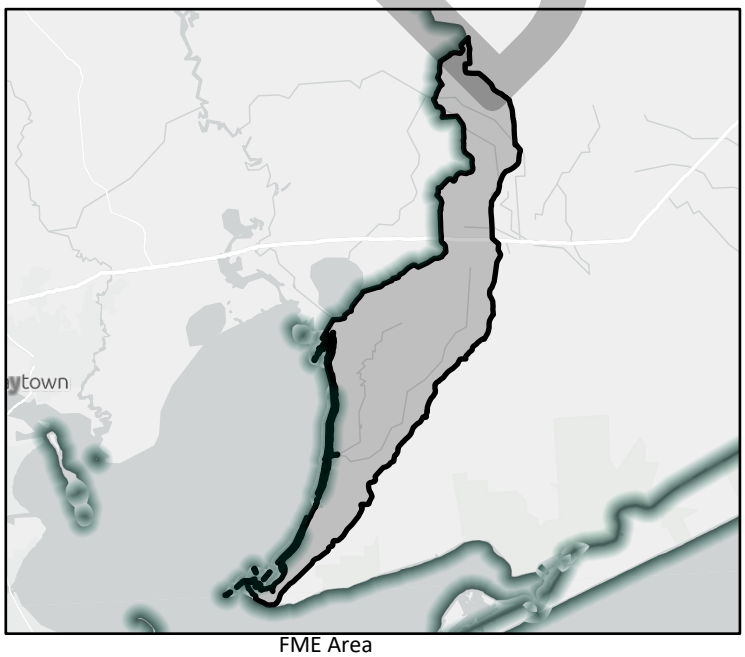
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 10,886 Roadways impacted (miles): 59

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5
NECHES
REGIONAL FLOOD PLANNING GROUP

Title: Dredging West Fork- Double Bayou

ID#: 051000066 Sponsor: Chambers (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Chambers

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Improvements include dredging West Fork- Double Bayou from mouth to FM 562 bridge.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 139

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.

100-Year Flood Risk Summary

Population at risk: 1,134 # of structures: 949 # of critical facilities: 0

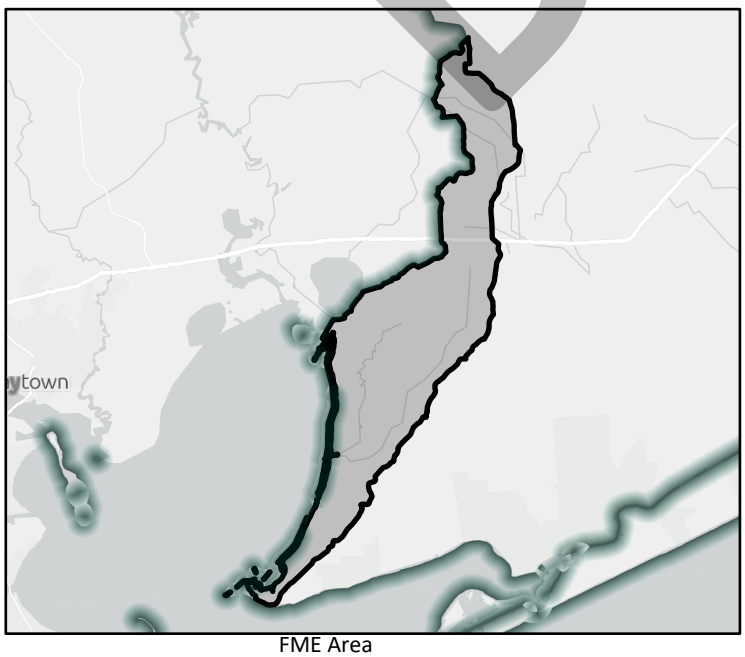
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 10,886 Roadways impacted (miles): 59

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $1,400,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Spindletop Bayou Ditch Improvement

ID#: 051000067 Sponsor: Chambers (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Chambers

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Improvements include increasing IH10 crossings, enlarge ditches and create retention along the Spindletop Bayou in east Chambers County.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 302

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.

100-Year Flood Risk Summary

Population at risk: 162 # of structures: 345 # of critical facilities: 0

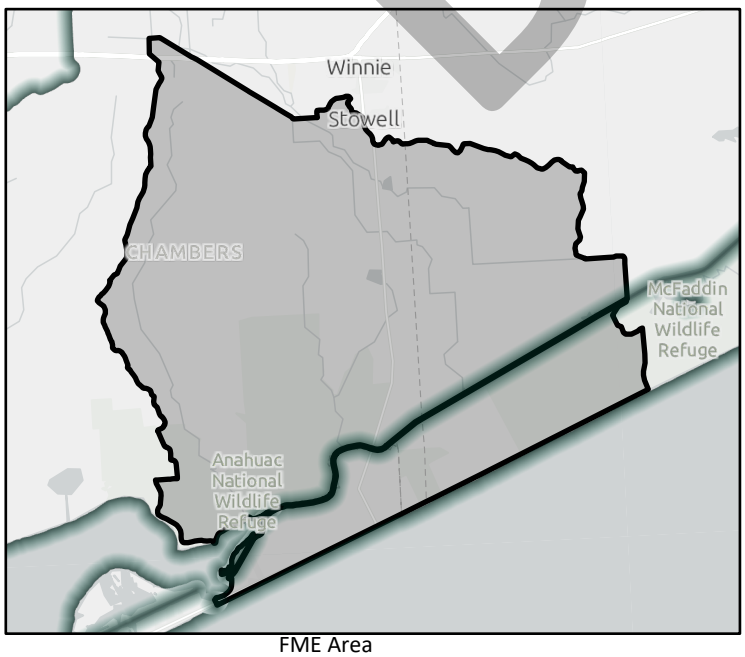
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 22,570 Roadways impacted (miles): 79

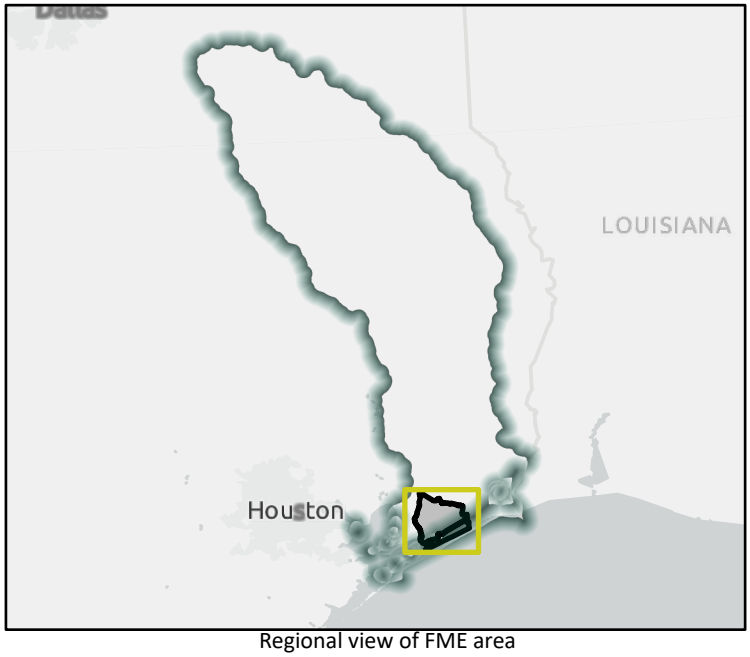
# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $1,500,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: North Anahuac Drainage

ID#: 051000068 Sponsor: Anahuac (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Chambers

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Improvements include expanding/repairing road ditches and culverts and channelizing the drainage outfall for the area north of Lonestar Canal.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 139

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.

100-Year Flood Risk Summary

Population at risk: 1,134 # of structures: 949 # of critical facilities: 0

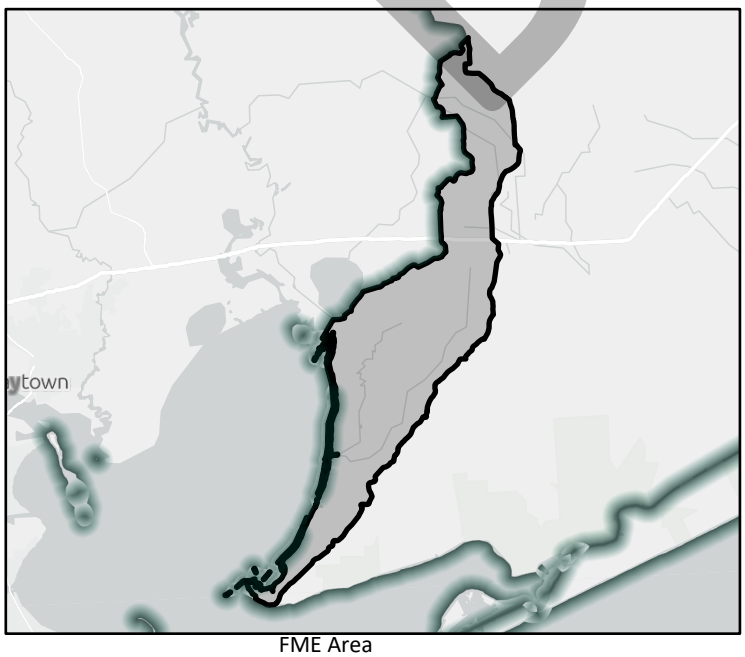
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 10,886 Roadways impacted (miles): 59

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $800,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Southeast Drainage Ditch

ID#: 051000069 Sponsor: Anahuac (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Chambers

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Improvements include channelization and crossing upgrades from Benton Lane to FM 563.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 139

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.

100-Year Flood Risk Summary

Population at risk: 1,134 # of structures: 949 # of critical facilities: 0

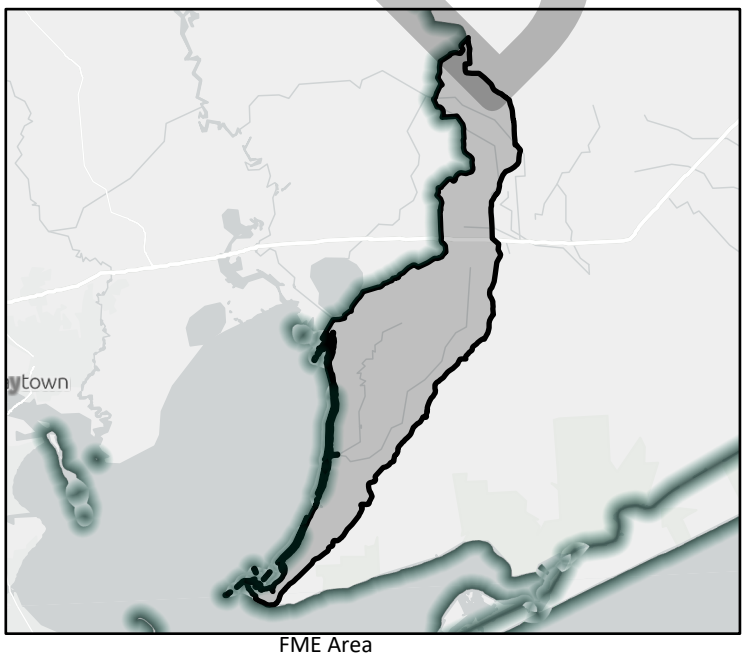
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 10,886 Roadways impacted (miles): 59

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $125,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Southwest Anahuac Ditch

ID#: 051000070 Sponsor: Anahuac (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Chambers

Study description: Evaluate project to quantify benefits, evaluate impacts, and begin design. Improvements include channelization and crossing upgrades from Main Street to Bay.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 139

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.

100-Year Flood Risk Summary

Population at risk: 1,134 # of structures: 949 # of critical facilities: 0

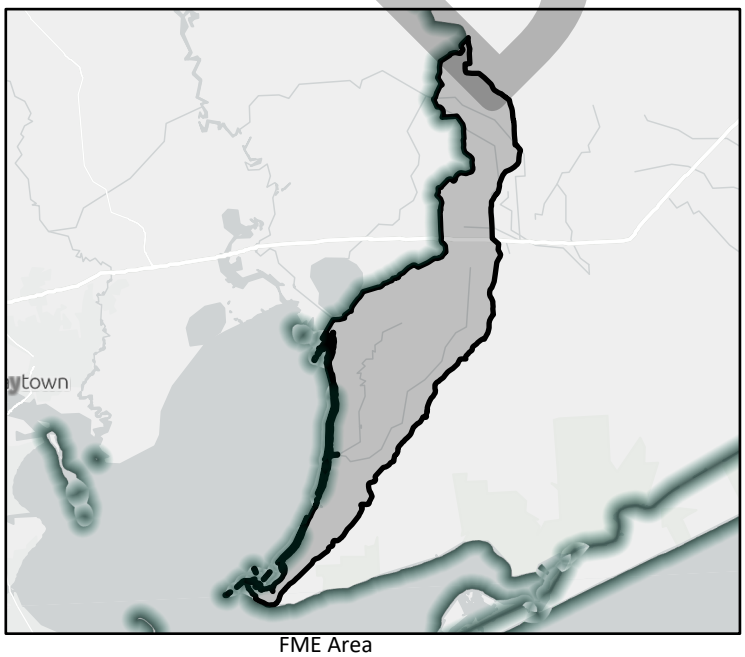
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 10,886 Roadways impacted (miles): 59

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $125,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lumberton Adler Ditch Drainage Improvements

ID#: 051000071 Sponsor: Lumberton (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for improving existing drainage of Adler Ditch

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 3

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.
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.

100-Year Flood Risk Summary

Population at risk: 27 # of structures: 2 # of critical facilities: 0

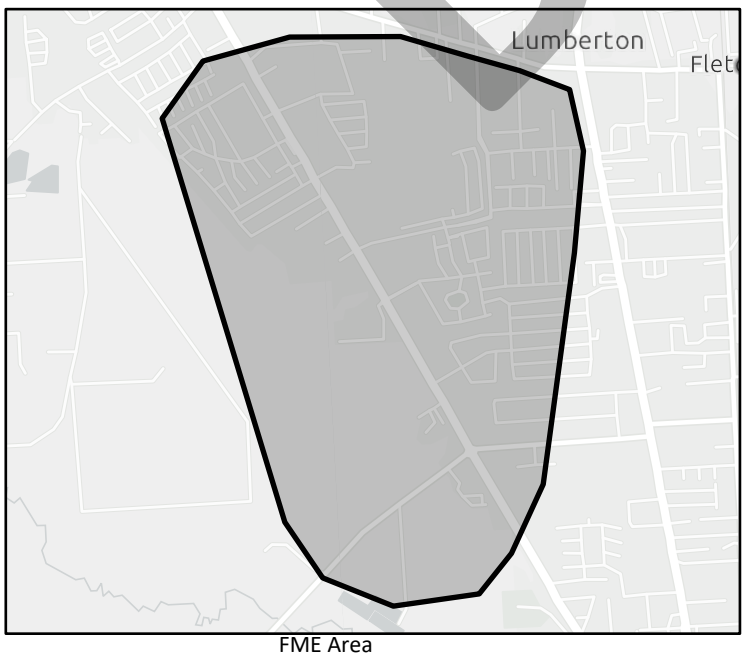
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 18 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lumberton East Village Creek Parkway Drainage Improvements

ID# 051000072 Sponsor: Lumberton (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for improving existing drainage of East Village Creek Parkway

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 2

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.

100-Year Flood Risk Summary

Population at risk: 82 # of structures: 27 # of critical facilities: 0

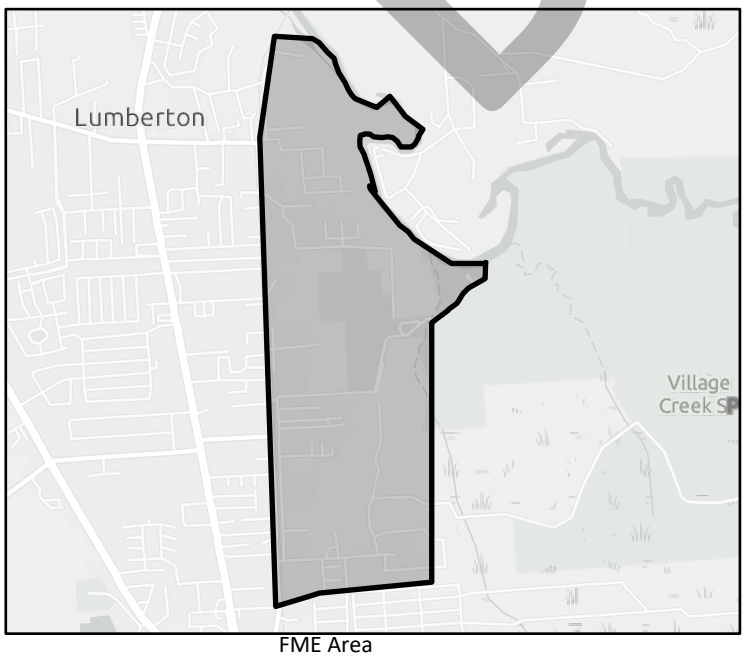
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 1 Roadways impacted (miles): 1

# of low water crossings: 1 # of historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $125,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lumberton Greens Branch Ditch Western Extension

ID#: 051000073 Sponsor: Lumberton (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for improving existing drainage of Greens Branch Ditch

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 11

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.
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.

100-Year Flood Risk Summary

Population at risk: 631 # of structures: 230 # of critical facilities: 0

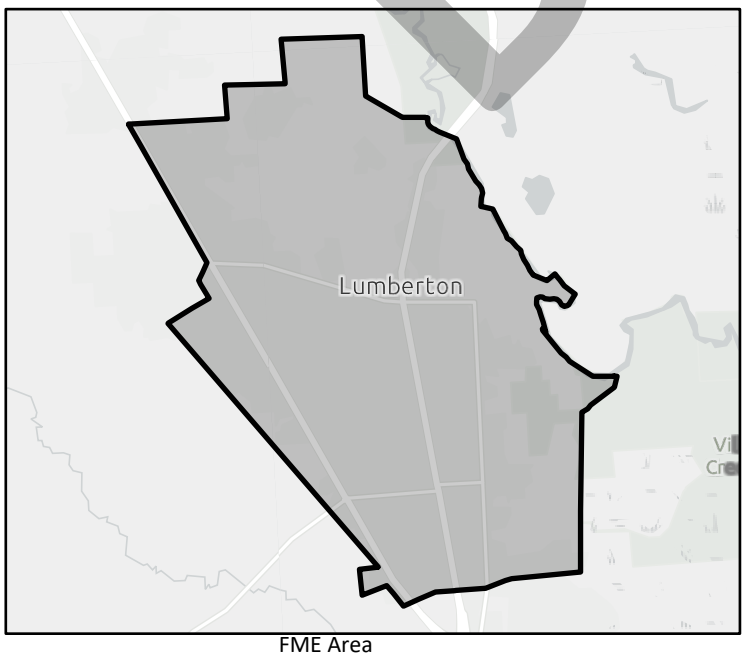
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 6 Roadways impacted (miles): 4

# of low water crossings: 1 # of historical road closures: 1

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lumberton Drainage Chance Cut Off Concrete Lining

ID# 051000074 Sponsor: Lumberton (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for improving existing drainage of Chance Cut Off

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 2

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.
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.

100-Year Flood Risk Summary

Population at risk: 71 # of structures: 10 # of critical facilities: 0

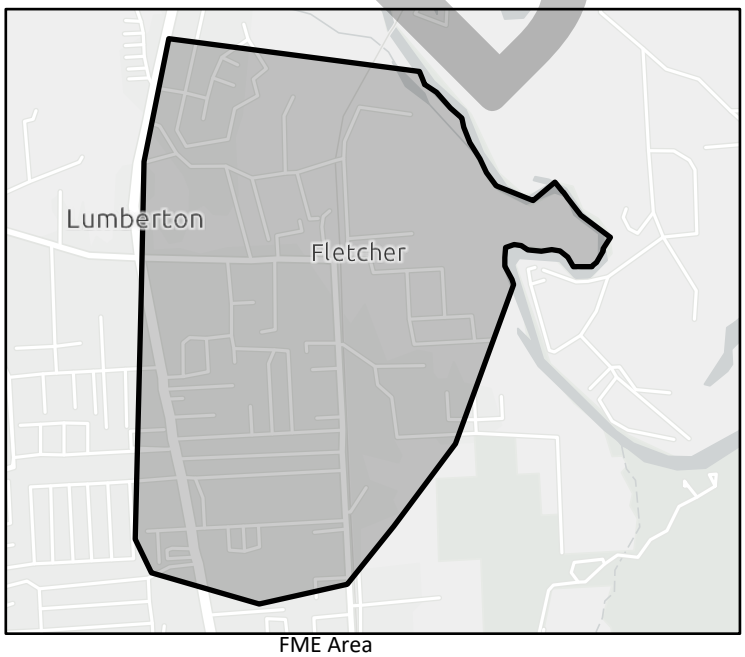
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 1 Roadways impacted (miles): 0

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lumberton Detention Pond at FM 421

ID#: 051000075 Sponsor: Lumberton (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to develop alternatives for detention at FM 421

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 11

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%.

100-Year Flood Risk Summary

Population at risk: 1,123 # of structures: 539 # of critical facilities: 1

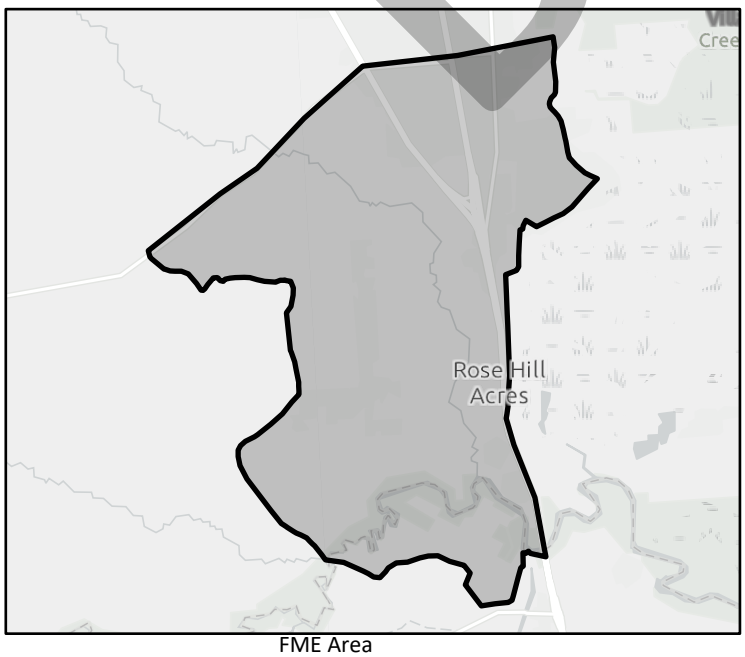
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 10 Roadways impacted (miles): 10

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Lumberton Elevate Taft Road and Brushy Creek Subdivision

ID#: 051000076 Sponsor: Lumberton (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for elevating Taft Road and Brushy Creek Subdivision

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 0

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.

100-Year Flood Risk Summary

Population at risk: 360 # of structures: 130 # of critical facilities: 0

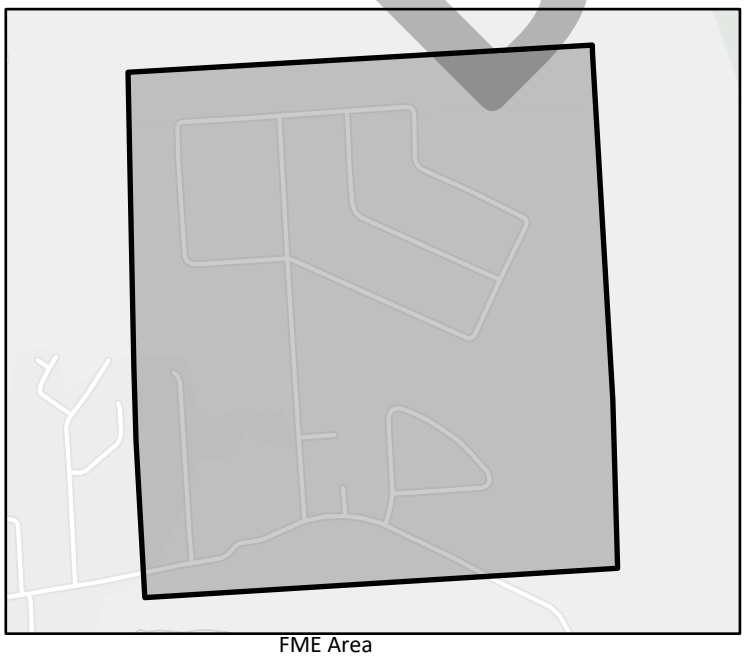
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 2 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $75,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Rose Hill Acres Flood Mitigation Improvements

ID#: 051000077 Sponsor: Rose Hill Acres (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: Develop drainage study to identify flood mitigation measures in and around Rose Hill Acres ETJ.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 0

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.
Goal 4: 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 5: Increase the amount of State/Federal funding for flood mitigation projects and strategies awarded within the Neches Region by 25%.
Goal 6: Increase the amount of State/Federal funding for flood mitigation projects and strategies awarded within the Neches Region by 75%.

100-Year Flood Risk Summary

Population at risk: 237 # of structures: 129 # of critical facilities: 0

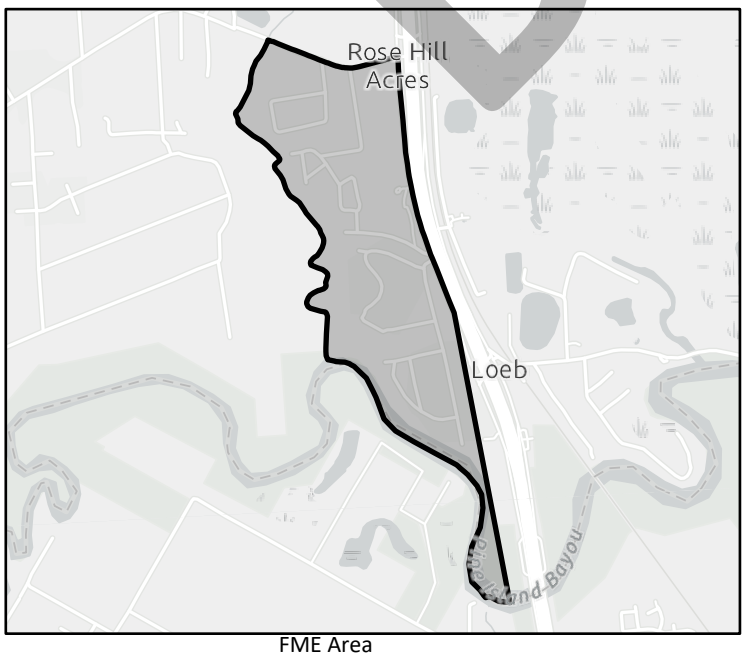
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $500,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Nacogdoches Flood Mitigation Project

ID#: 051000078 Sponsor: Nacogdoches (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Nacogdoches

Study description: H&H study to mitigate the wide-spread flooding that occurs along LaNana and Banita Creeks in the City of Nacogdoches

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 28

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.
Goal 4: 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 5: Increase the amount of State/Federal funding for flood mitigation projects and strategies awarded within the Neches Region by 25%.
Goal 6: Increase the amount of State/Federal funding for flood mitigation projects and strategies awarded within the Neches Region by 75%.

100-Year Flood Risk Summary

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

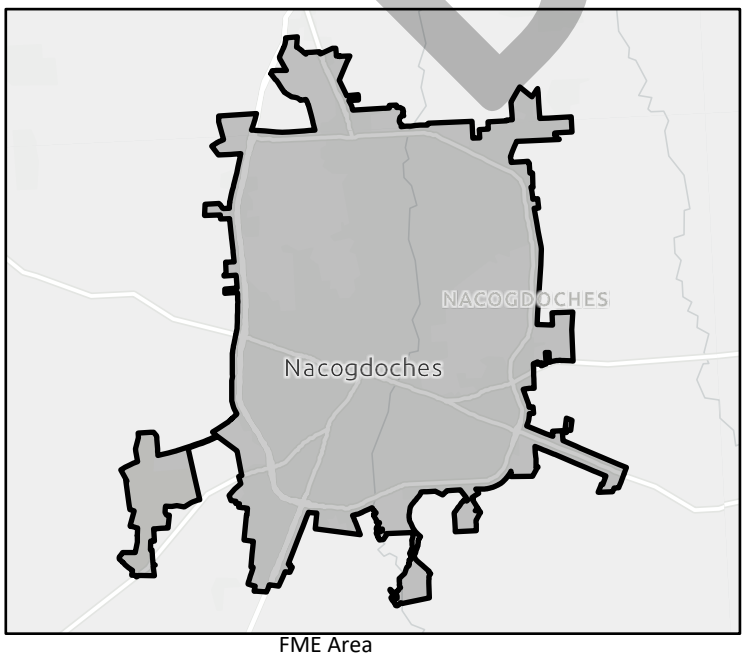
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

Farm/Ranch land impacted (ac.): 4 Roadways impacted (miles): 14

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Rose Hill Acres Ditch Improvements

ID#: 051000079 Sponsor: Rose Hill Acres (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to identify alternatives for ditch improvements within Rose Hill Acres

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 0

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.

100-Year Flood Risk Summary

Population at risk: 237 # of structures: 129 # of critical facilities: 0

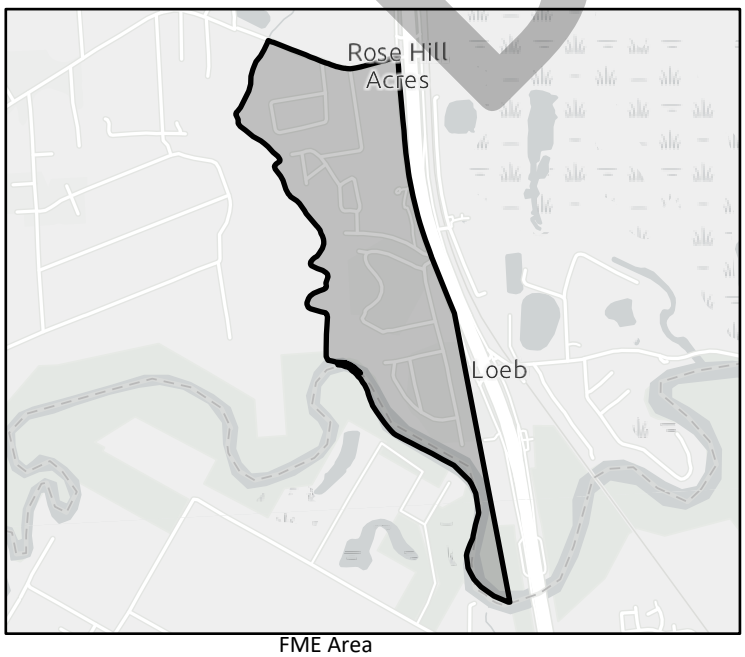
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Rose Hill Acres Road and Bridge Elevation

ID#: 051000080 Sponsor: Rose Hill Acres (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H study to locate roadways prone to flooding and identify alternatives to improve drainage.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 0

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.

100-Year Flood Risk Summary

Population at risk: 237 # of structures: 129 # of critical facilities: 0

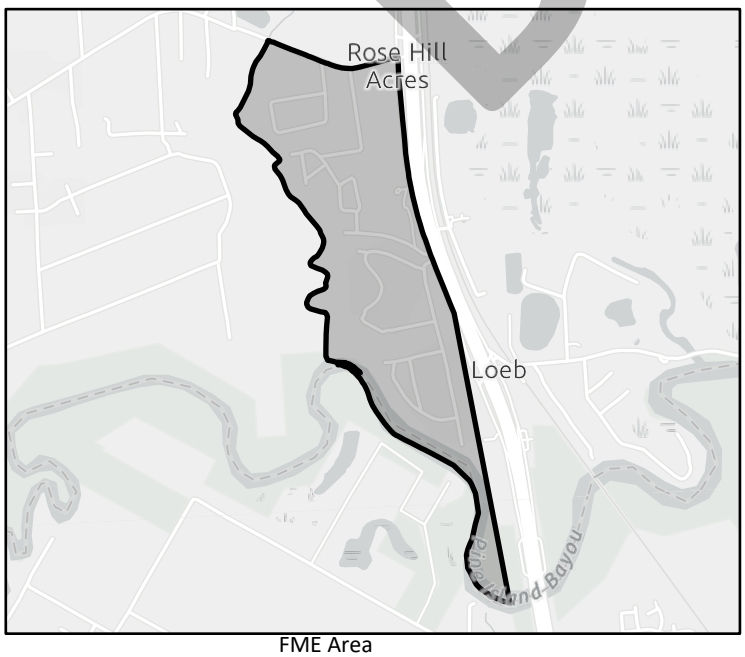
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 2

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Silsbee Easy Street Drainage Improvements

ID#: 051000081 Sponsor: Silsbee (Municipality)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H study to locate roadways prone to flooding and identify alternatives to improve drainage.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 4

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.

100-Year Flood Risk Summary

Population at risk: 266 # of structures: 135 # of critical facilities: 0

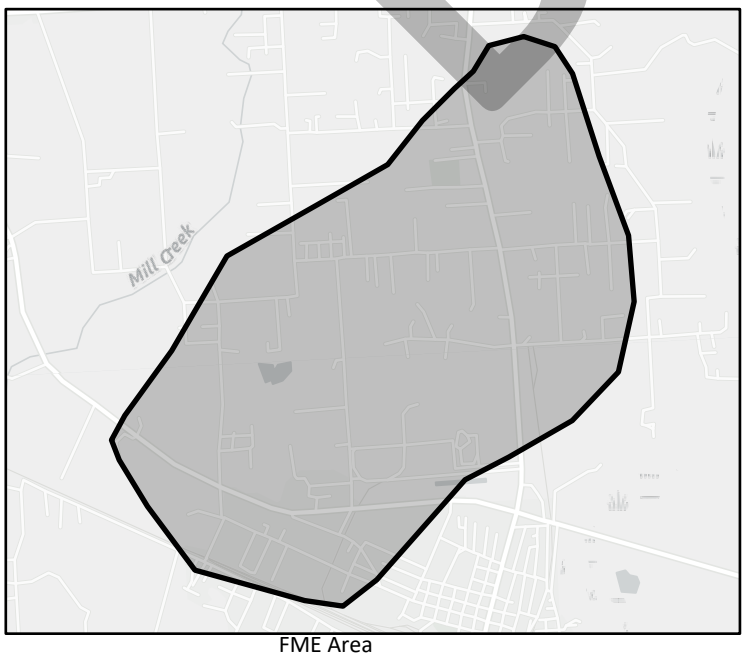
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 4 Roadways impacted (miles): 3

# of low water crossings: 4 # of historical road closures: 4

Estimated Cost and Funding Availability

Total Cost: $50,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Vidor Schoolhouse Ditch Alternative B

ID#: 051000082 Sponsor: Orange (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Orange

Study description: H&H study to identify alternatives for Schoolhouse Ditch

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 3

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.
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.

100-Year Flood Risk Summary

Population at risk: 471 # of structures: 150 # of critical facilities: 0

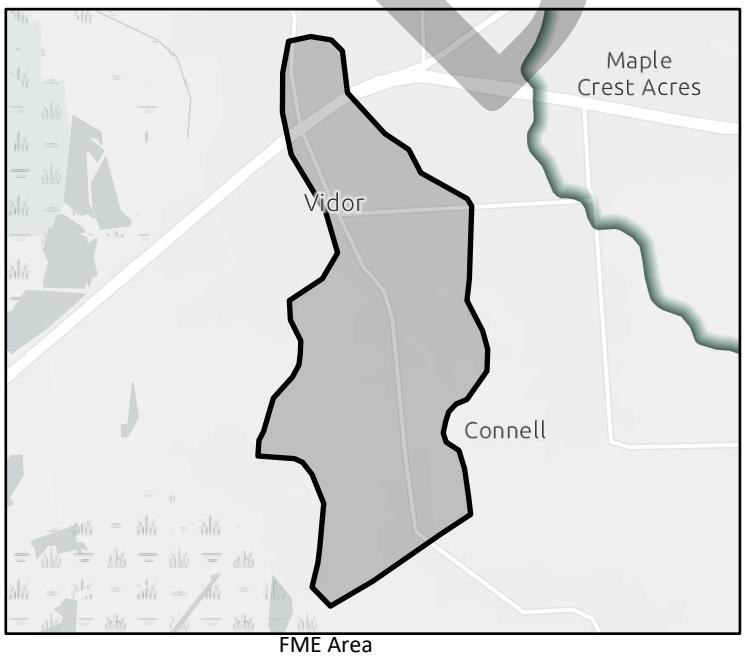
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 2

# of low water crossings: 3 # of historical road closures: 3

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Vidor Schoolhouse Ditch Alternative C

ID#: 051000083 Sponsor: Orange (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Orange

Study description: H&H study to identify alternatives for Schoolhouse Ditch

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? Yes Drainage area (sq. mi., est.) 3

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.
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.

100-Year Flood Risk Summary

Population at risk: 471 # of structures: 150 # of critical facilities: 0

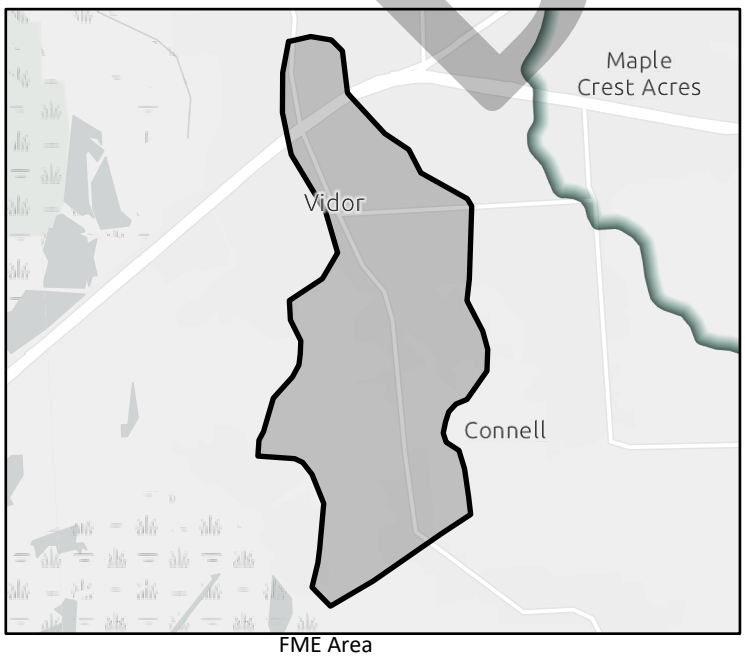
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 0 Roadways impacted (miles): 2

# of low water crossings: 3 # of historical road closures: 3

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: City of Vidor Drainage Improvements

ID#: 051000084 Sponsor: Orange (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Orange

Study description: Perform H&H modeling to identify and define flood risk, develop conceptual alternatives to reduce flood risk, develop OPCC for conceptual alternatives, and rank projects. Conceptual alternatives should evaluate feasibility of nature based solutions.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 10

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.
Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,462 # of structures: 541 # of critical facilities: 1

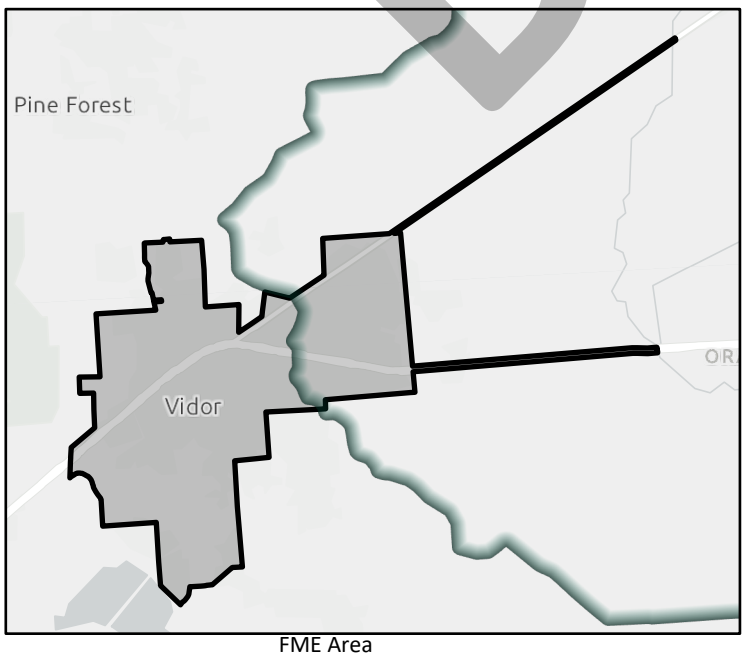
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? Yes

Farm/Ranch land impacted (ac.): 1 Roadways impacted (miles): 13

# of low water crossings: 5 # of historical road closures: 5

Estimated Cost and Funding Availability

Total Cost: $100,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County Black Creek Detention Pond

ID#: 051000085 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to develop alternatives for detention at Black Creek.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 50

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.
Goal 4: 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 5: 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.

100-Year Flood Risk Summary

Population at risk: 17 # of structures: 23 # of critical facilities: 0

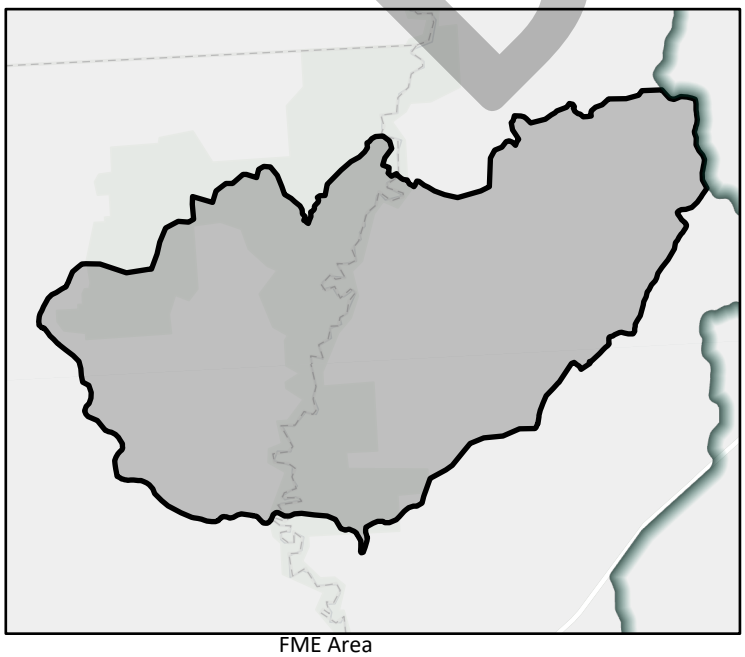
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 15 Roadways impacted (miles): 8

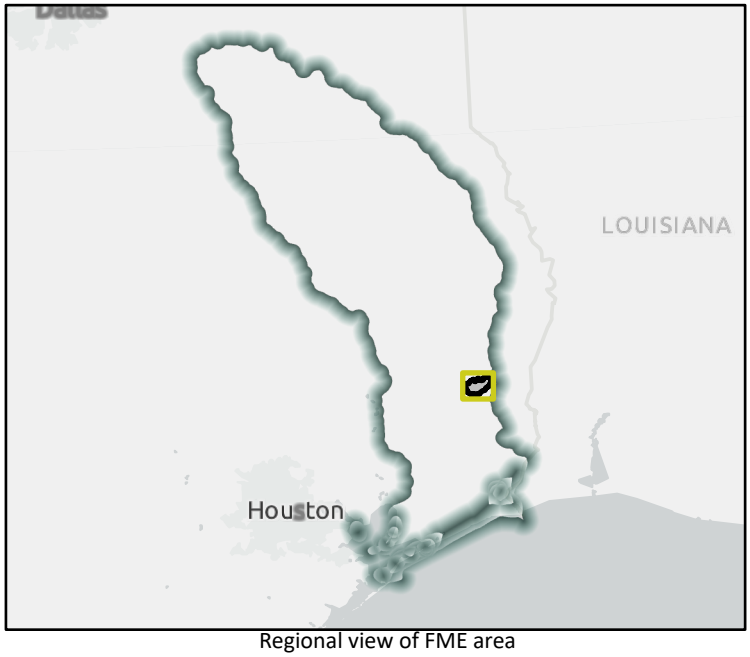
# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $150,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County Boggy Creek Detention Pond

ID# 051000086 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H Study to develop alternatives for detention on Boggy Creek.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 43

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.
Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,277 # of structures: 648 # of critical facilities: 1

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

Farm/Ranch land impacted (ac.): 43 Roadways impacted (miles): 14

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $150,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -

FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County Cooks Lake Road Bridge Elevation

ID#: 051000087 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H study to improve drainage along Cooks Lake Bridge.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 10

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.

100-Year Flood Risk Summary

Population at risk: 188 # of structures: 41 # of critical facilities: 0

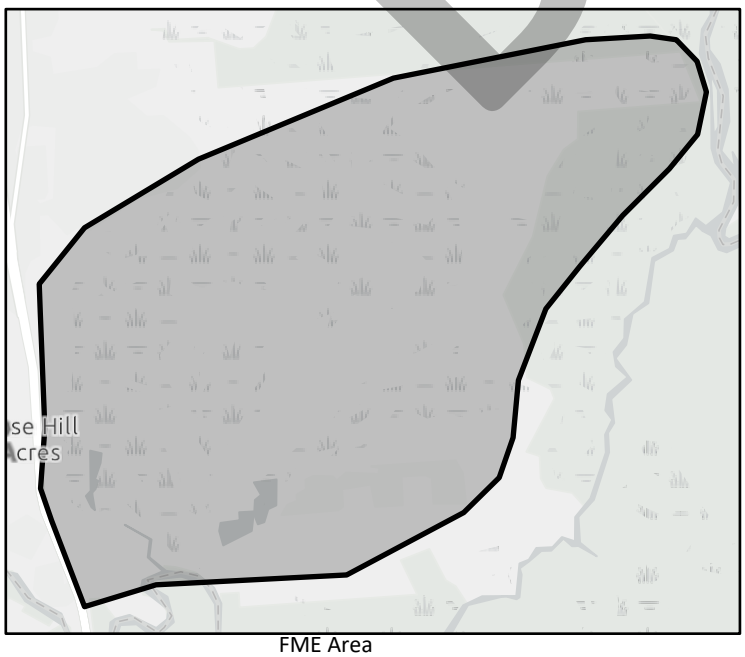
Flood risk type: Riverine? Yes Coastal? No Local Flooding? No Other? No

Farm/Ranch land impacted (ac.): 8 Roadways impacted (miles): 3

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $20,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -



FME Area

Regional view of FME area

Flood Management Evaluation (FME)

REGION 5 NECHES REGIONAL FLOOD PLANNING GROUP

Title: Hardin County Reservoir

ID#: 051000088 Sponsor: Hardin (County)

Recommended by RFPG? Yes Reason for Recommendation: Complies with RFPG Goals

Study Details

Study type: Project Planning County: Hardin

Study description: H&H study of large reservoir for flood control / drought assistance.

FME to create new H&H model? Yes Emergency Need? Yes Anticipated models in near term? No Drainage area (sq. mi., est.) 43

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.
Goal 4: 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 5: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 15%.
Goal 6: Reduce the number of critical facilities in the 100-year flood risk inundation extents by 25%.

100-Year Flood Risk Summary

Population at risk: 1,277 # of structures: 648 # of critical facilities: 1

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

Farm/Ranch land impacted (ac.): 43 Roadways impacted (miles): 14

# of low water crossings: 0 # of historical road closures: 0

Estimated Cost and Funding Availability

Total Cost: $500,000 Potential federal funding availability? Yes Potential Federal Funding Sources: -

FME Area

Regional view of FME area