

VOLUME 2  
Appendix 5-C

# REGION 5 NECHES 2023 REGIONAL FLOOD PLAN

JULY 2023

DRAFT

PREPARED FOR THE  
REGION 5 NECHES FLOOD PLANNING GROUP

DRAFT

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

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County

Study description

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

- 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  # of structures  # of critical facilities

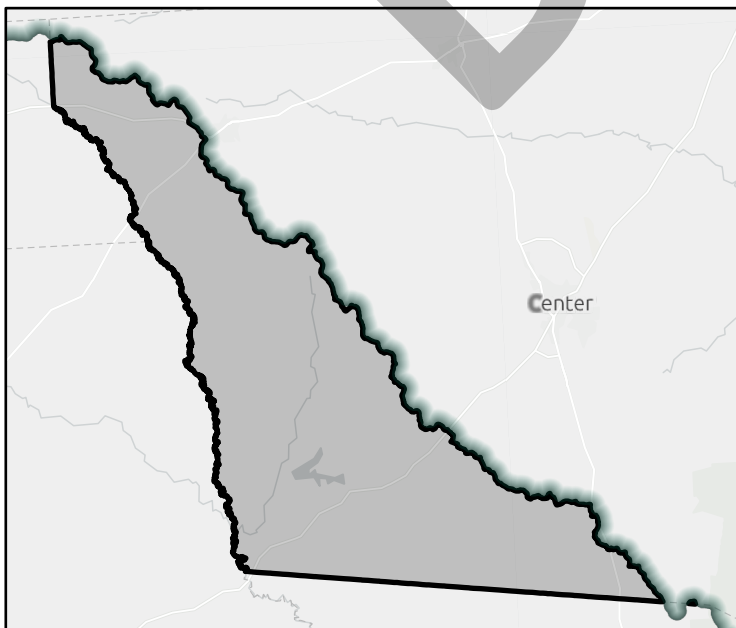
Flood risk type: Riverine?  Yes Coastal?  No Local Flooding?  Yes Other?  No

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

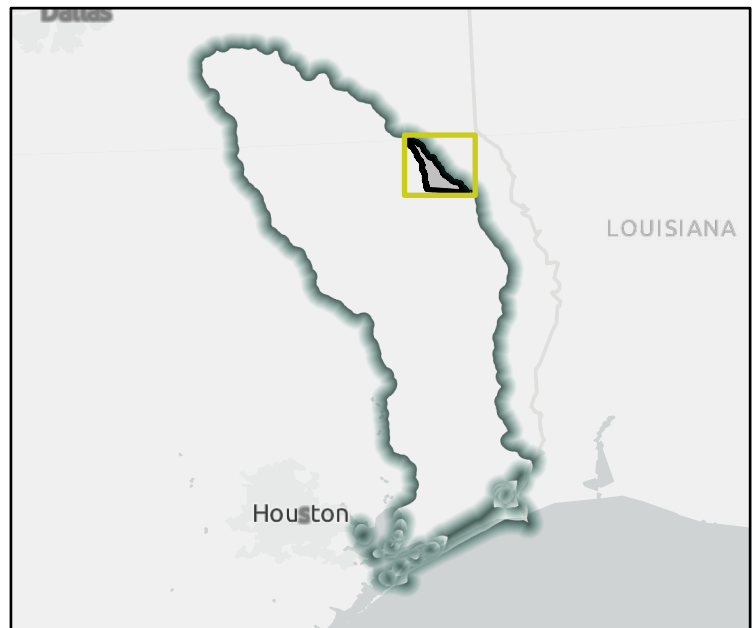
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Yes Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

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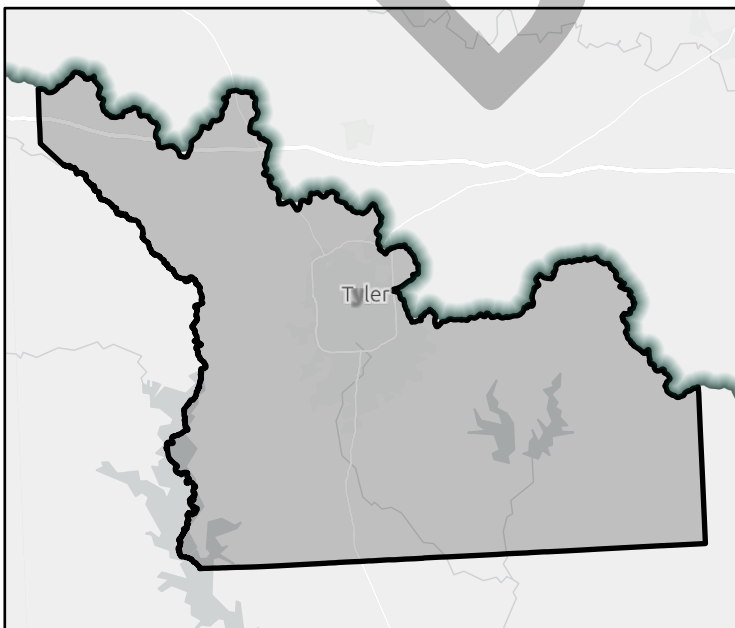
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Regional view of FME area

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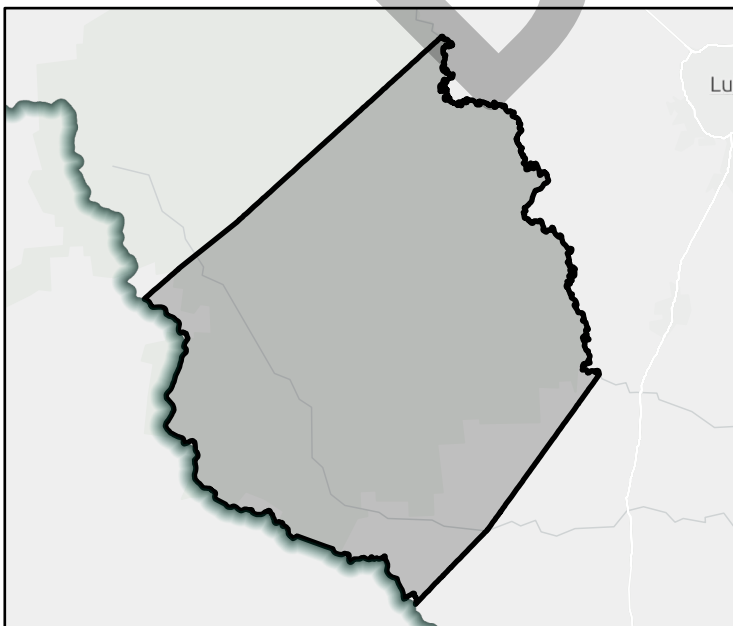
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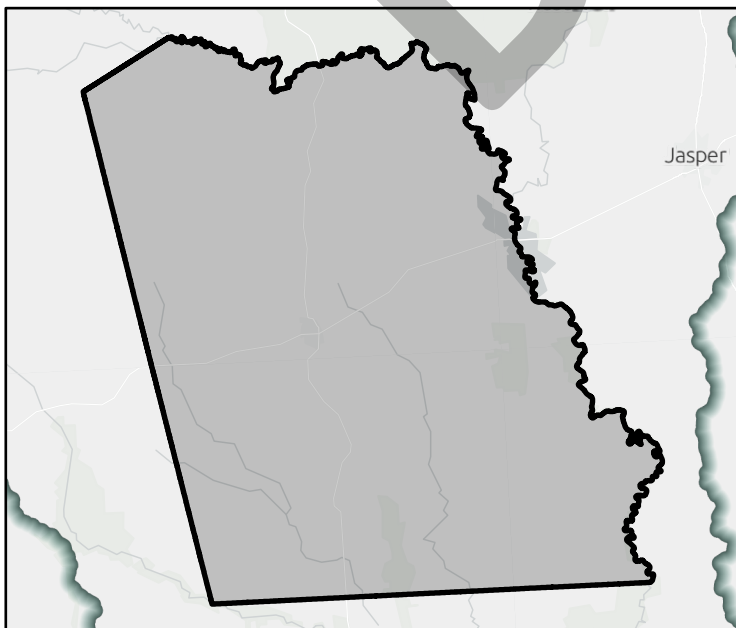
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Regional view of FME area

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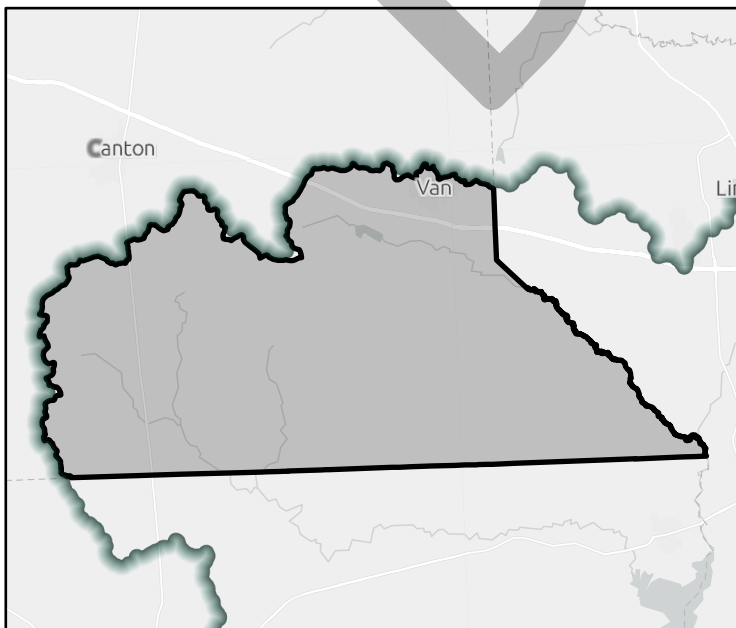
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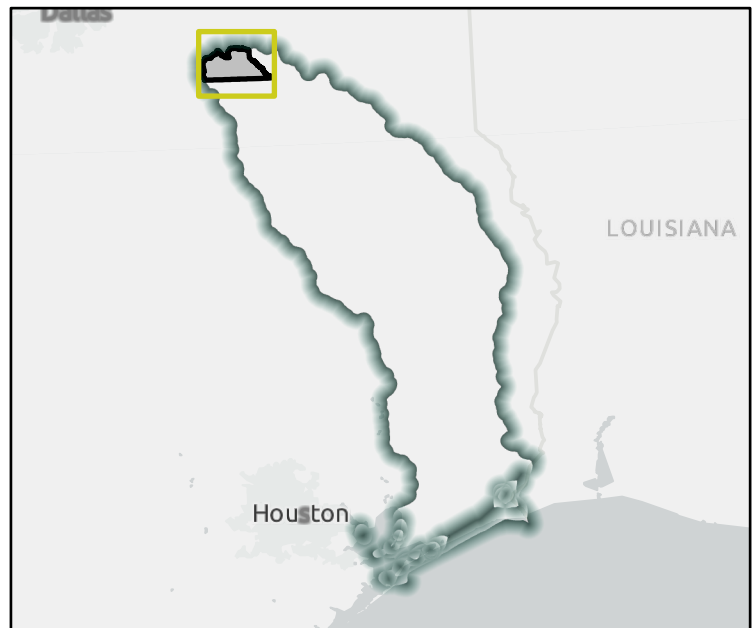
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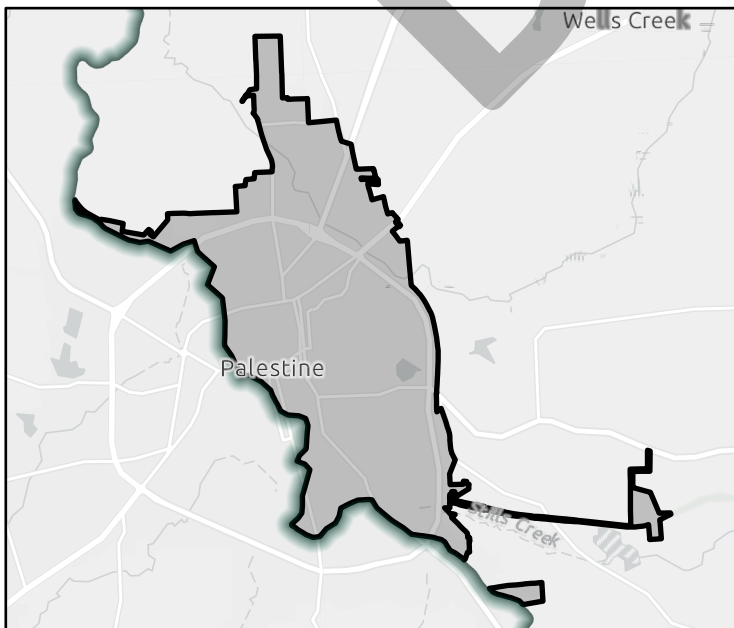
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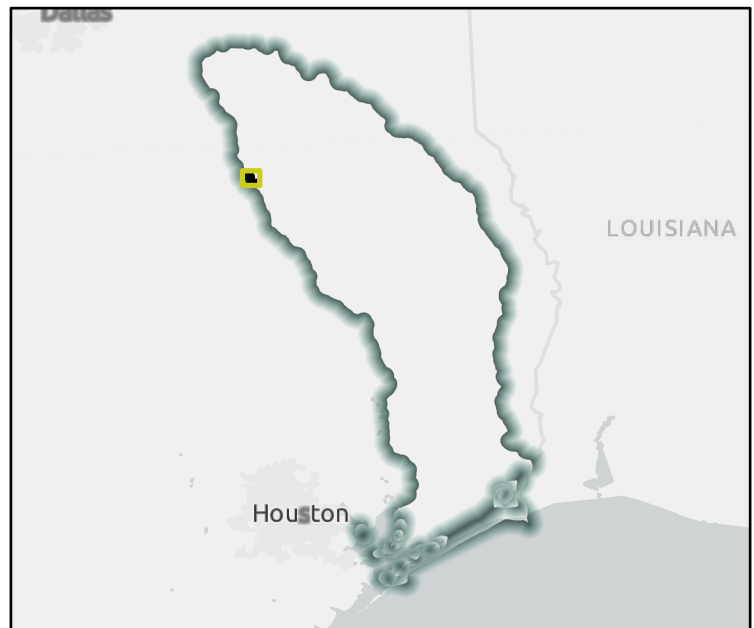
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Regional view of FME area



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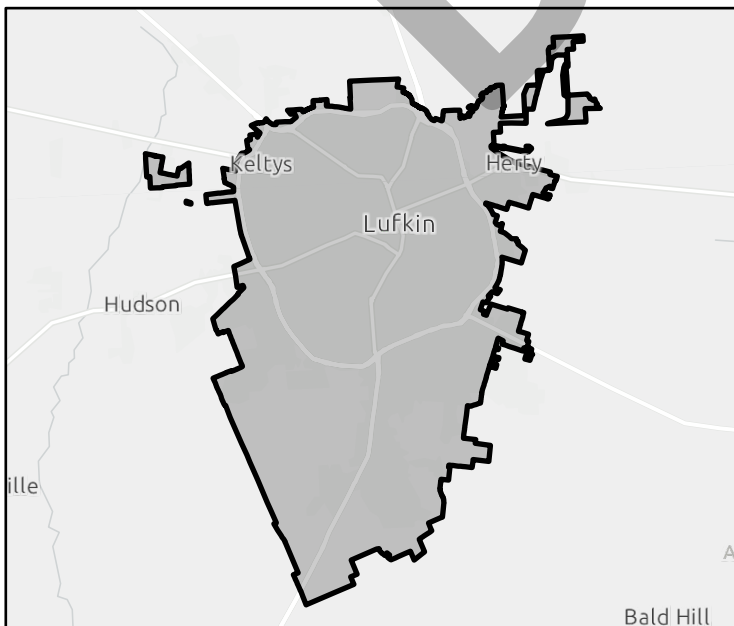
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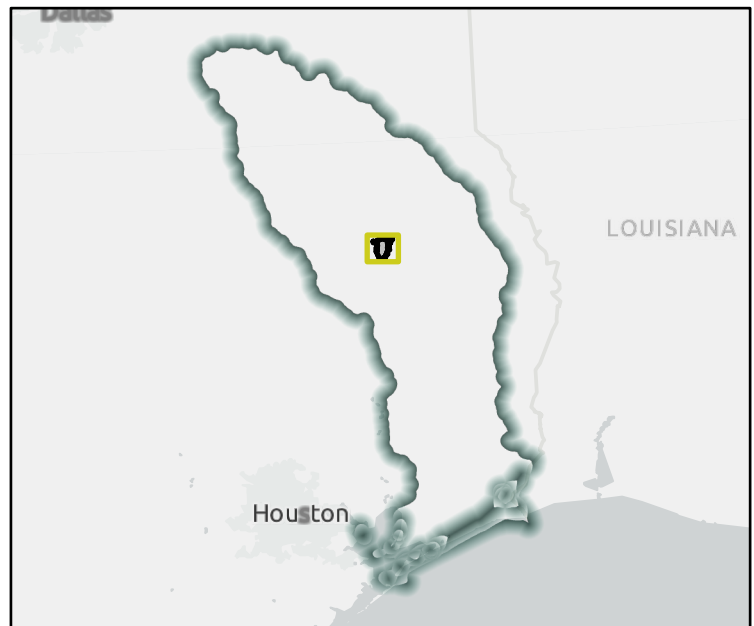
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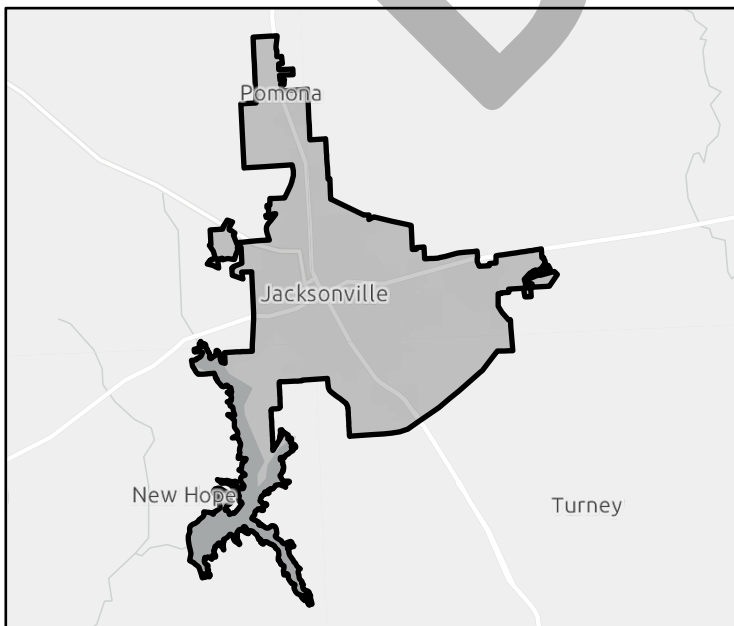
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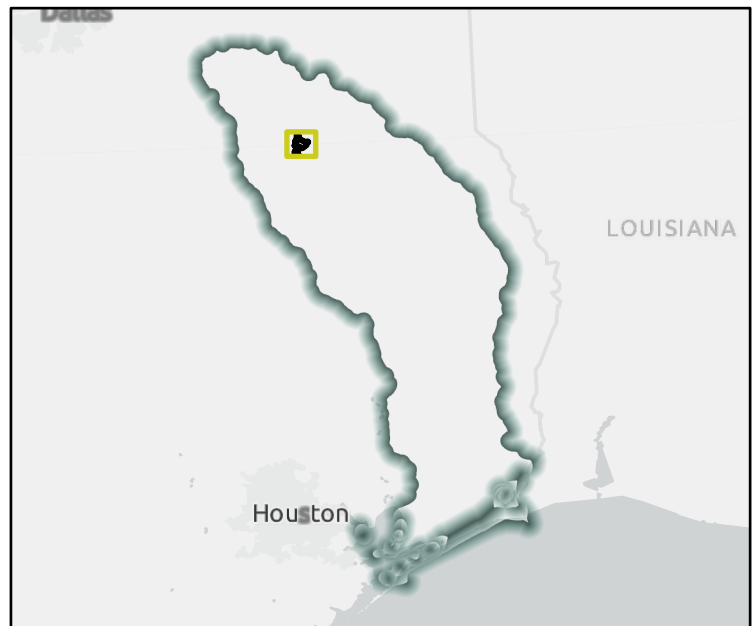
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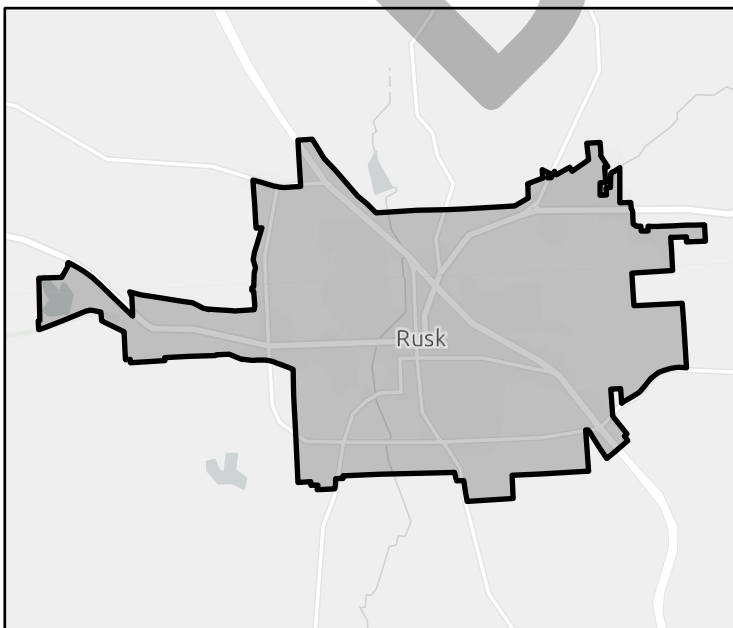
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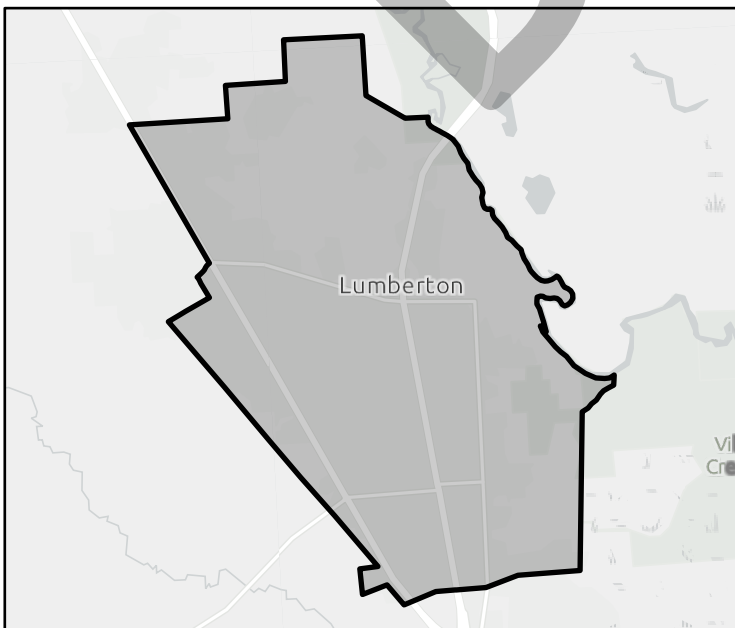
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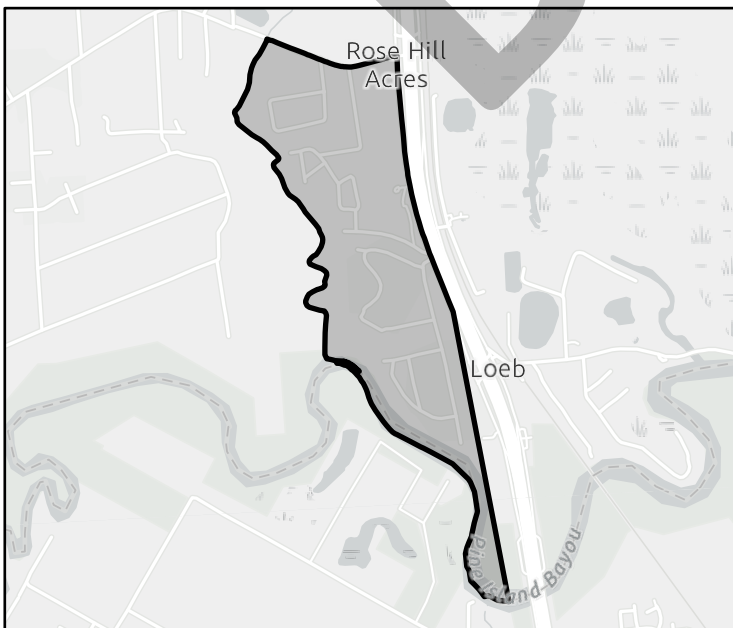
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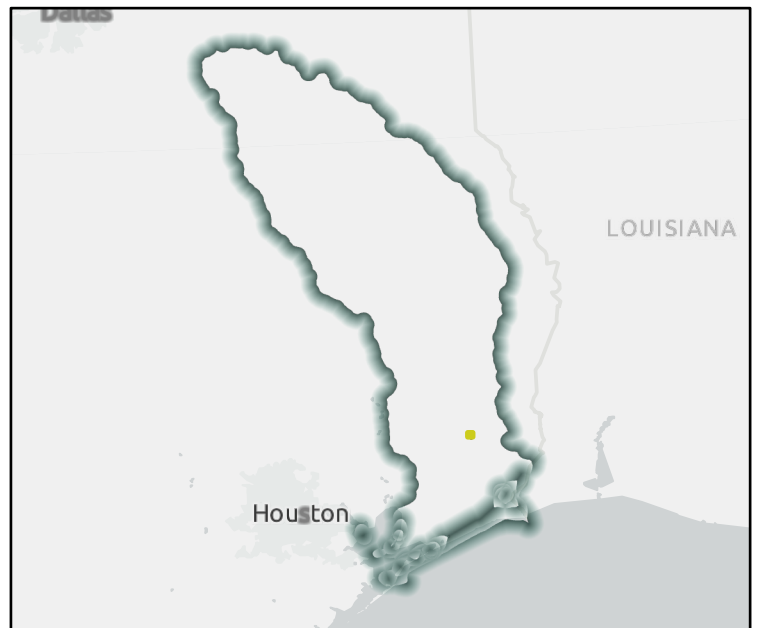
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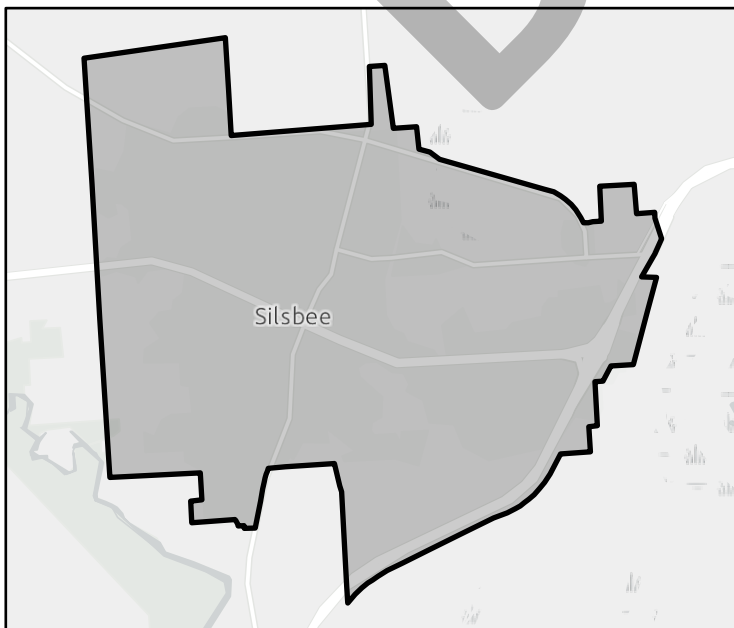
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Regional view of FME area

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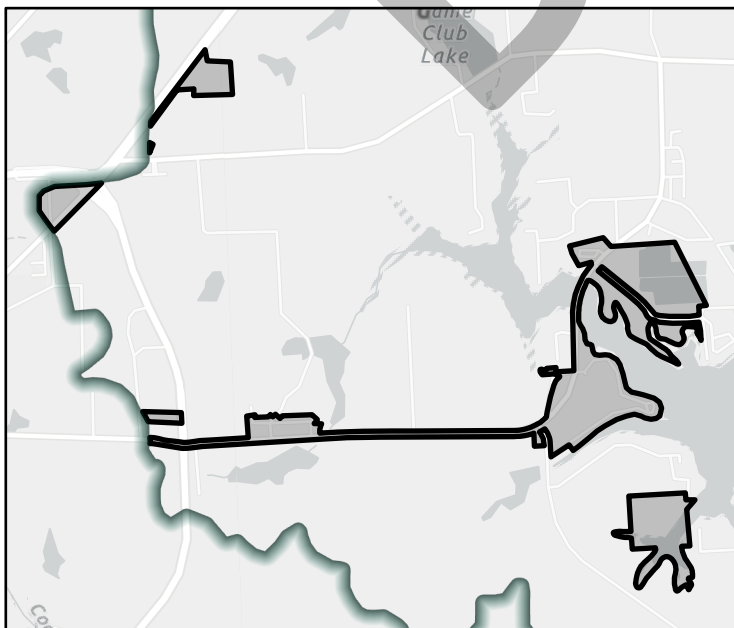
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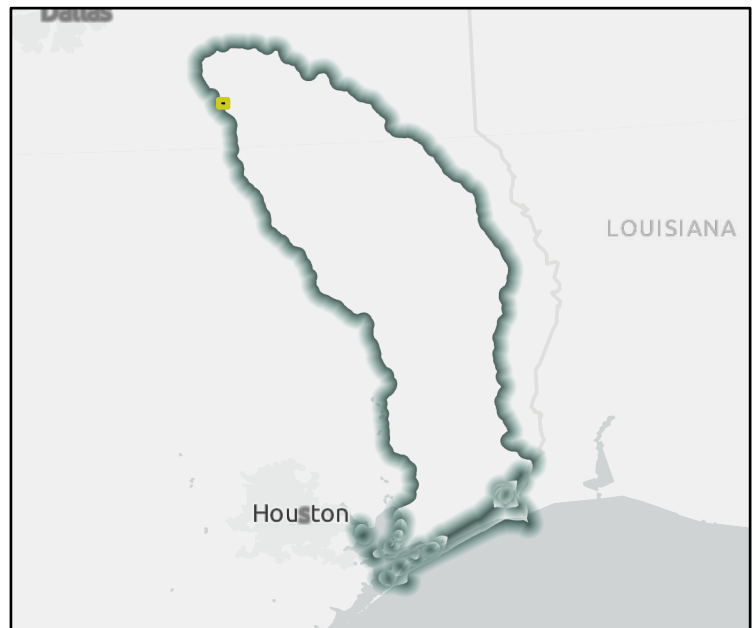
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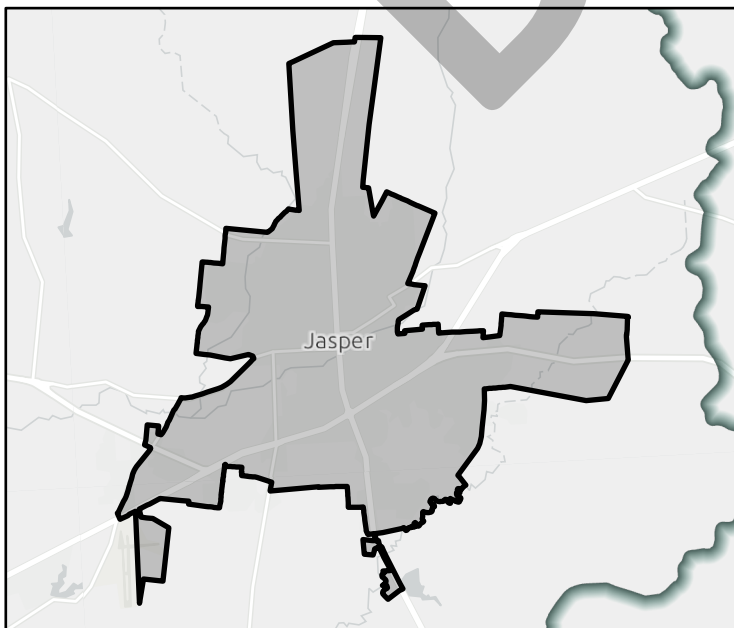
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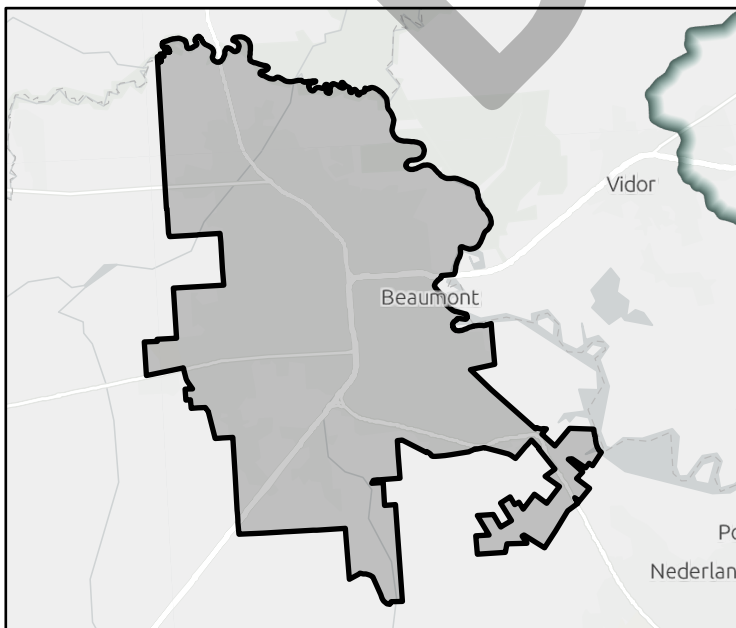
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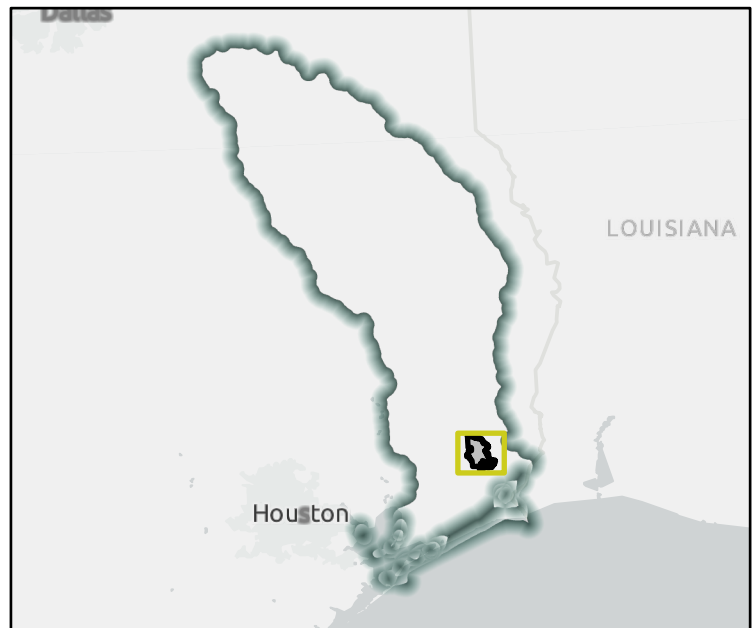
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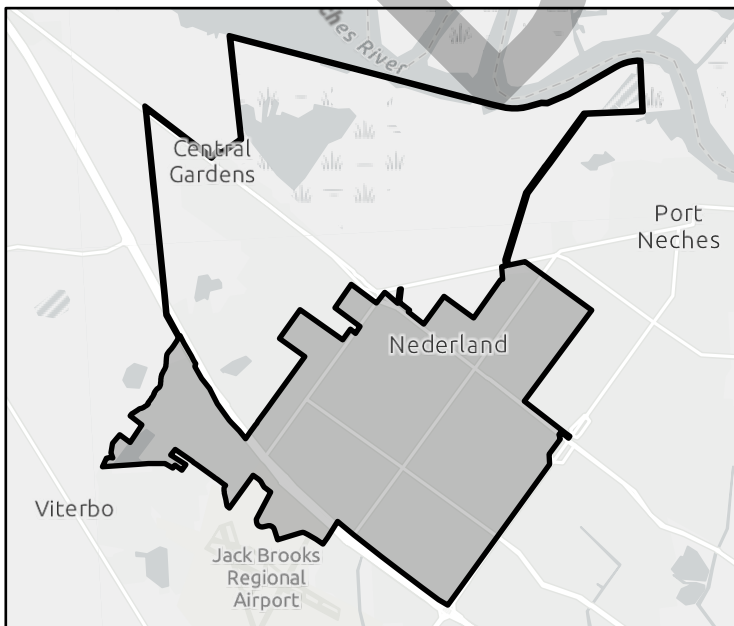
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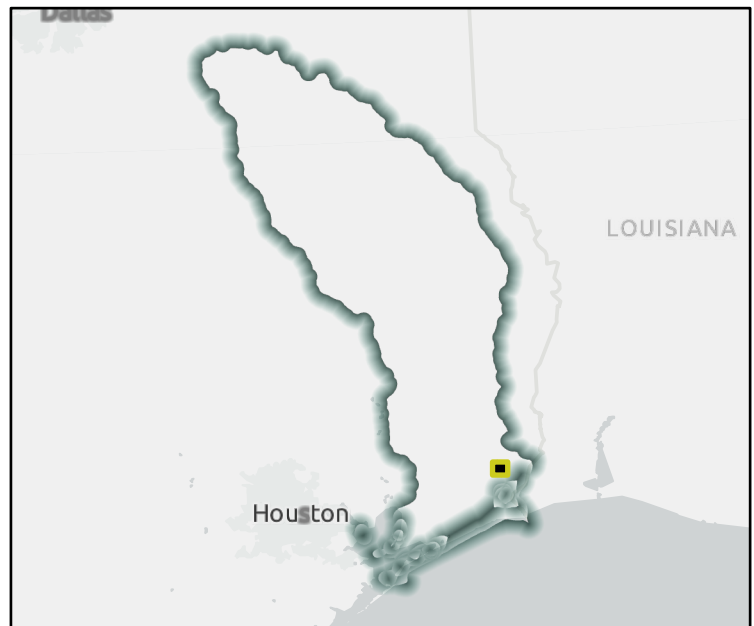
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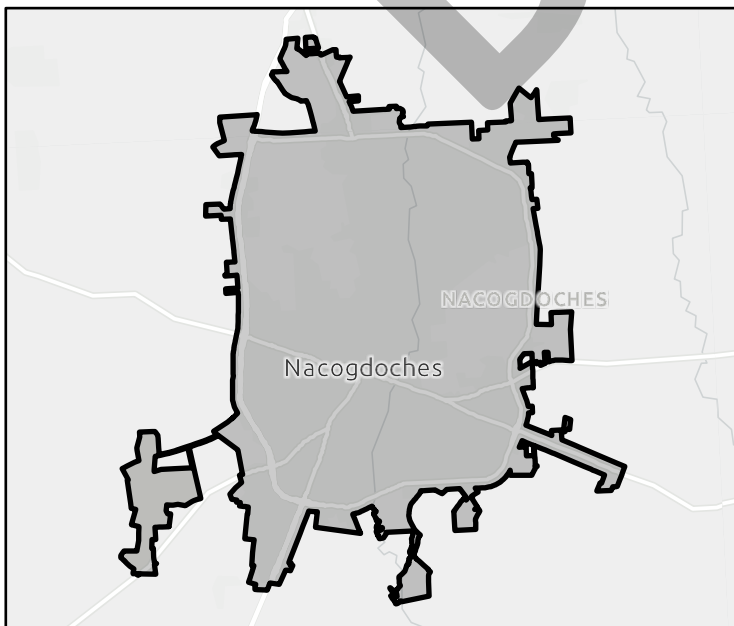
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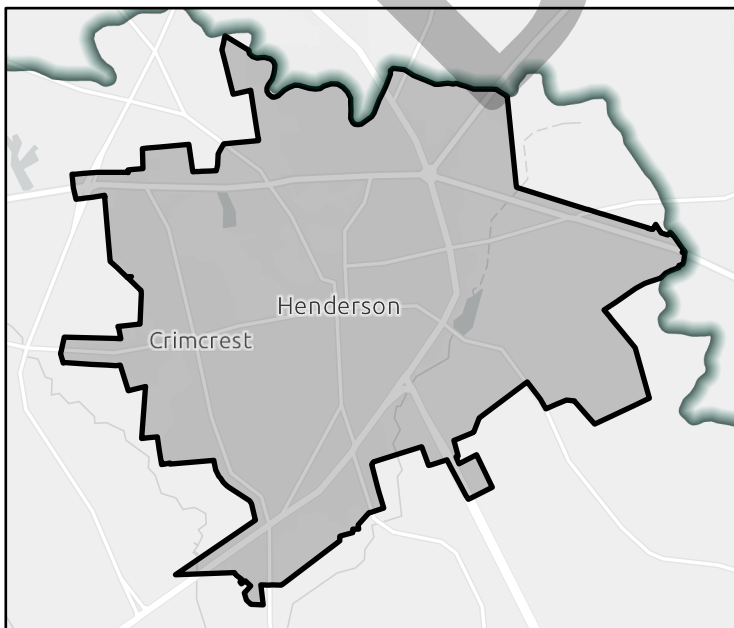
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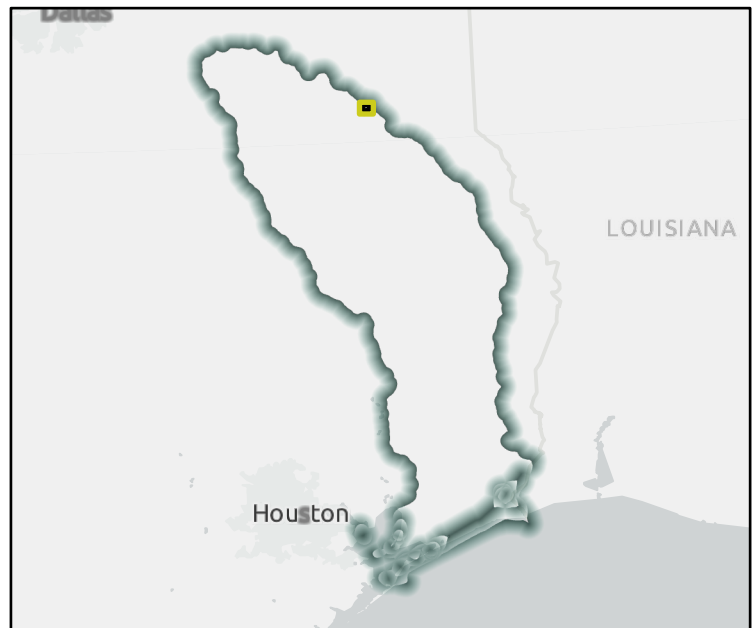
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ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

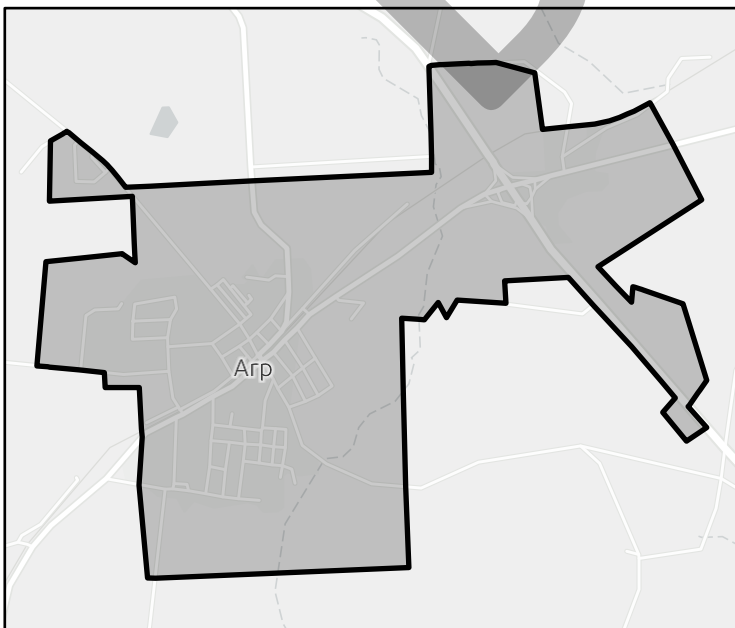
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

- 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  # of structures  # of critical facilities

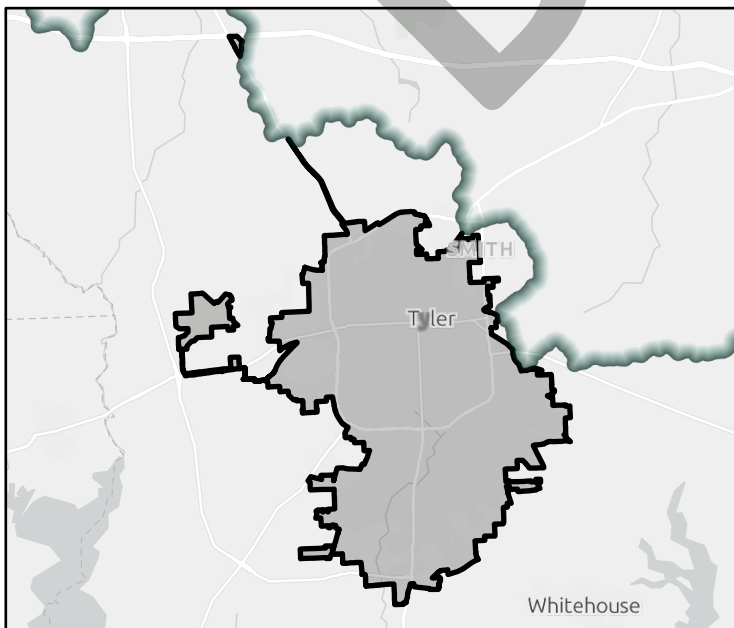
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

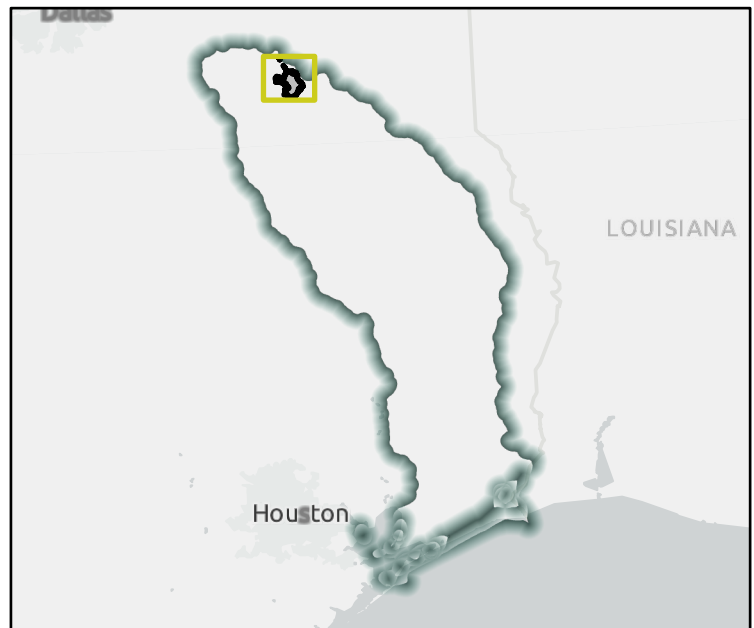
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

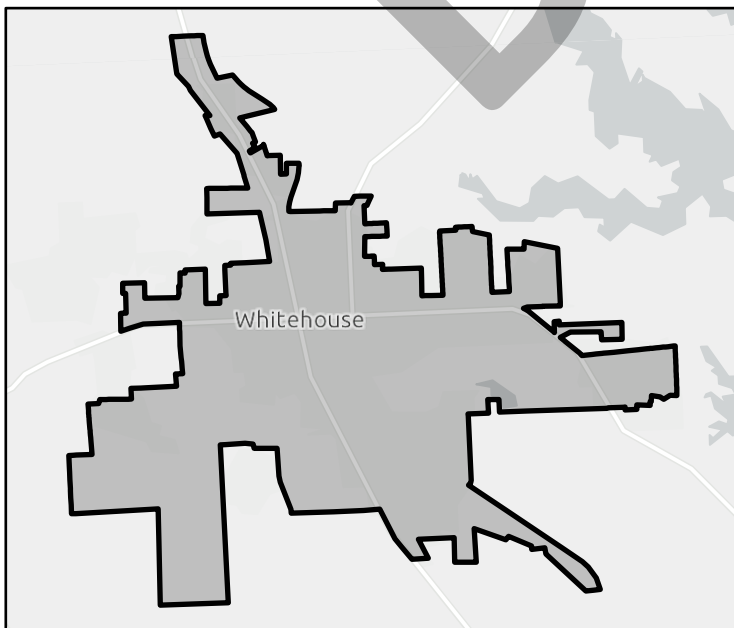
Flood risk type: Riverine?  Yes Coastal?  No Local Flooding?  Yes Other?  No

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  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**

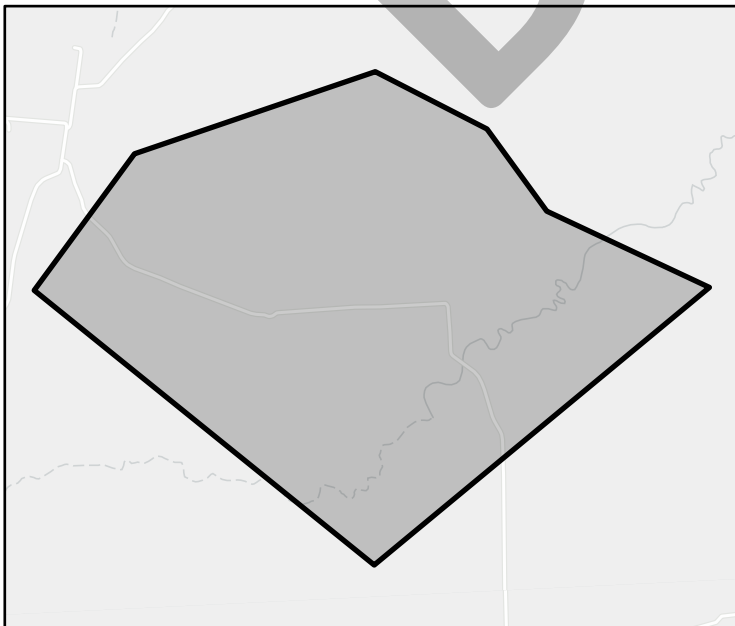
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **No**

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

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County

Study description

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

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  # of structures  # of critical facilities

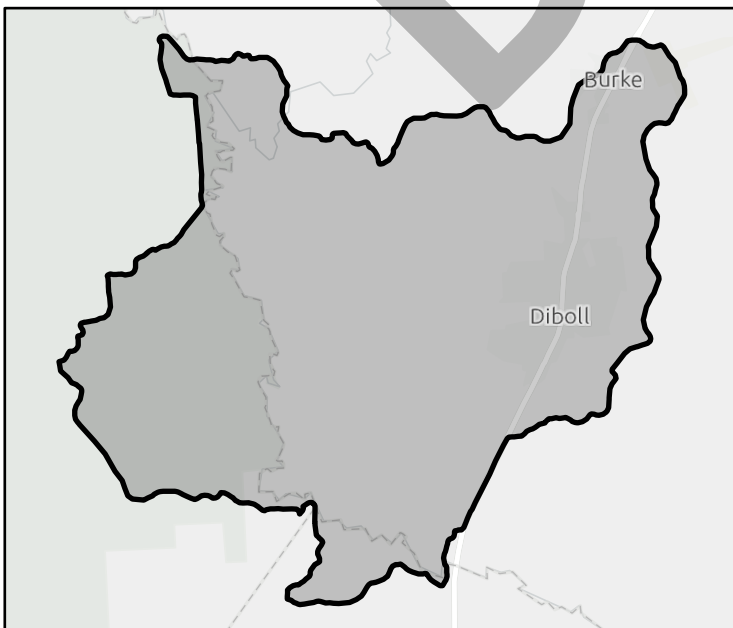
Flood risk type: Riverine?  Yes Coastal?  No Local Flooding?  Yes Other?  No

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  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

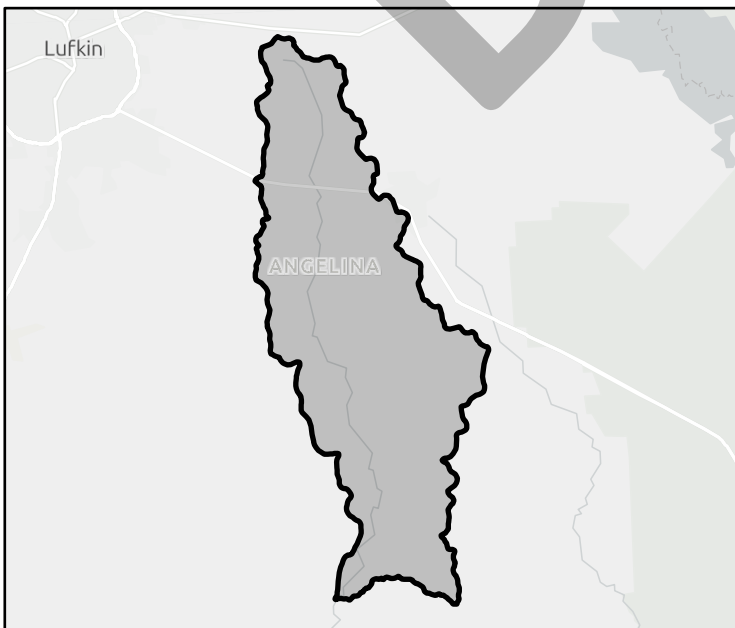
Flood risk type: Riverine? Yes Coastal? No Local Flooding? Yes Other? No

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

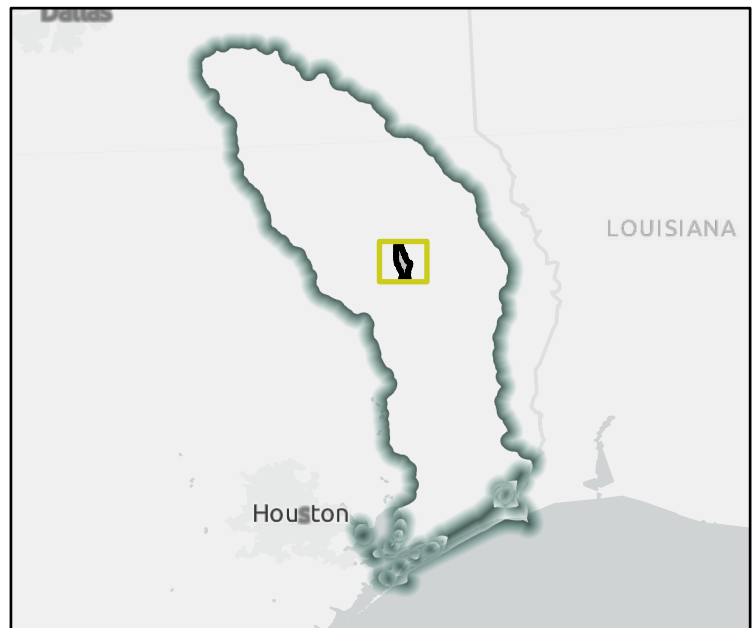
# of low water crossings 0 # of historical road closures 0

## 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

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

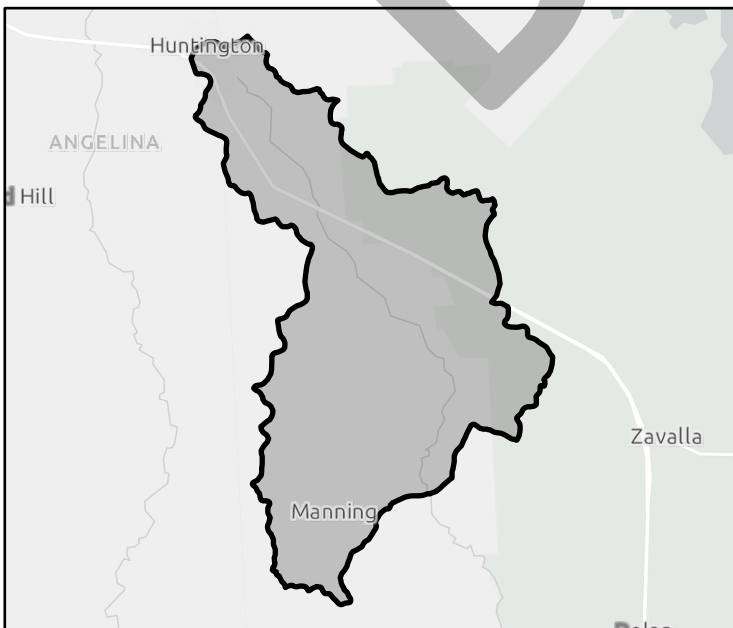
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

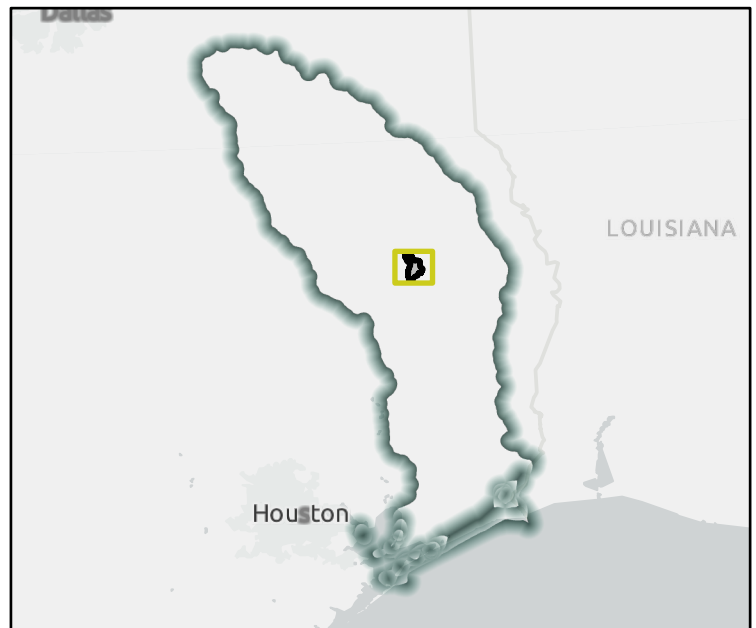
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5



REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

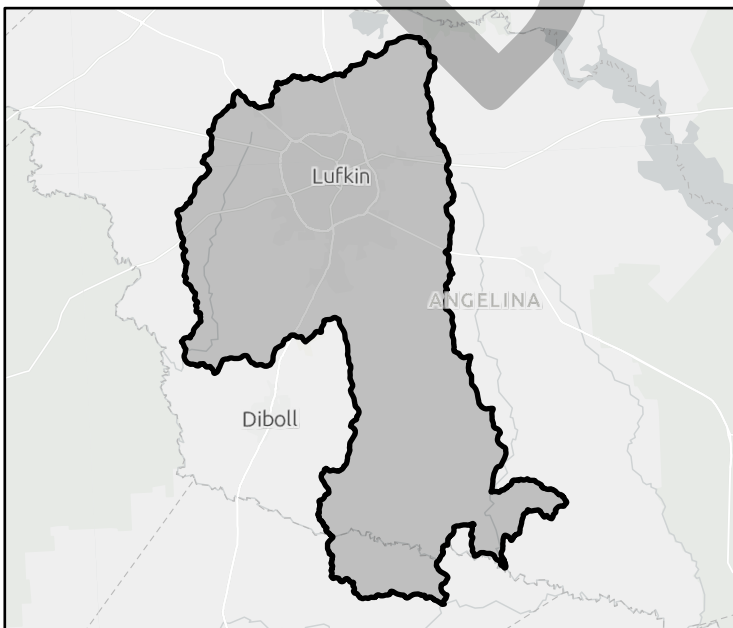
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

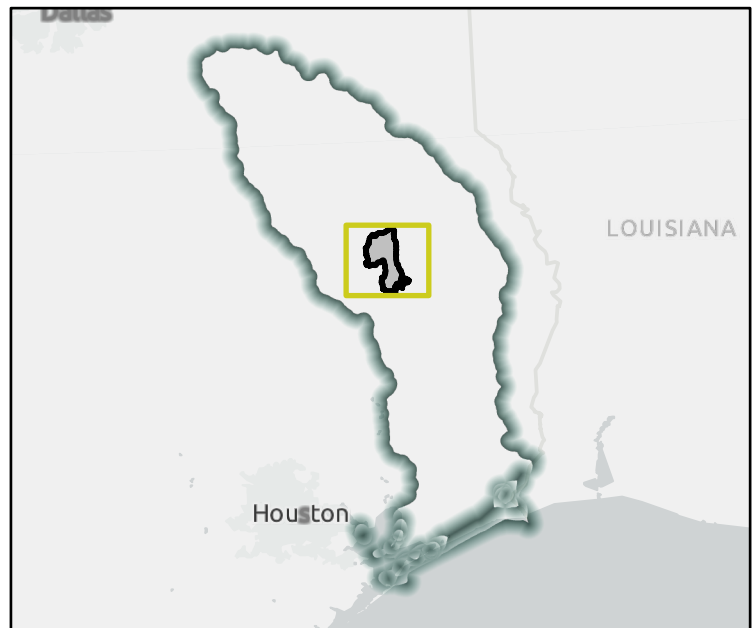
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County Chambers

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

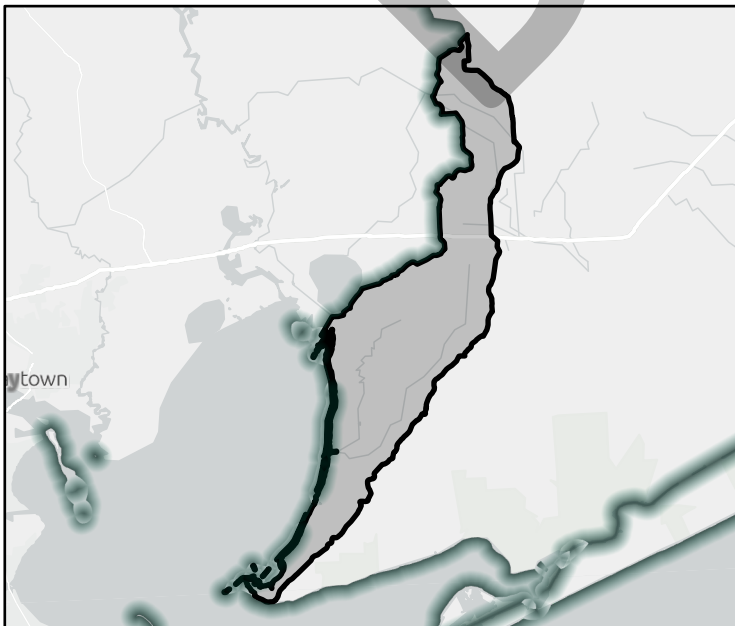
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

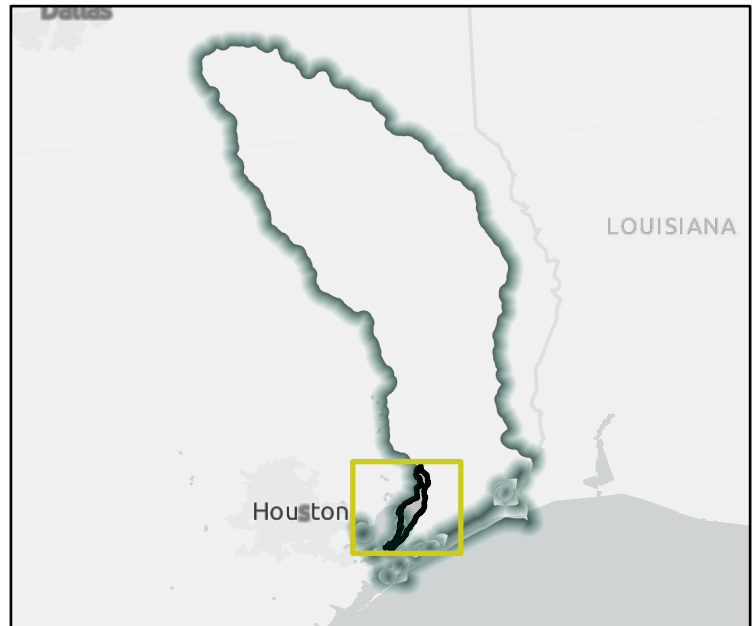
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County Chambers

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

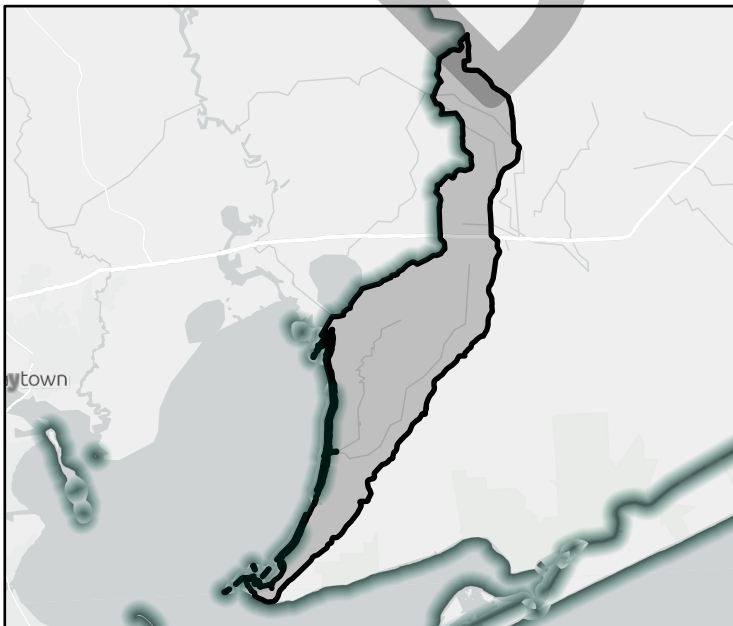
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

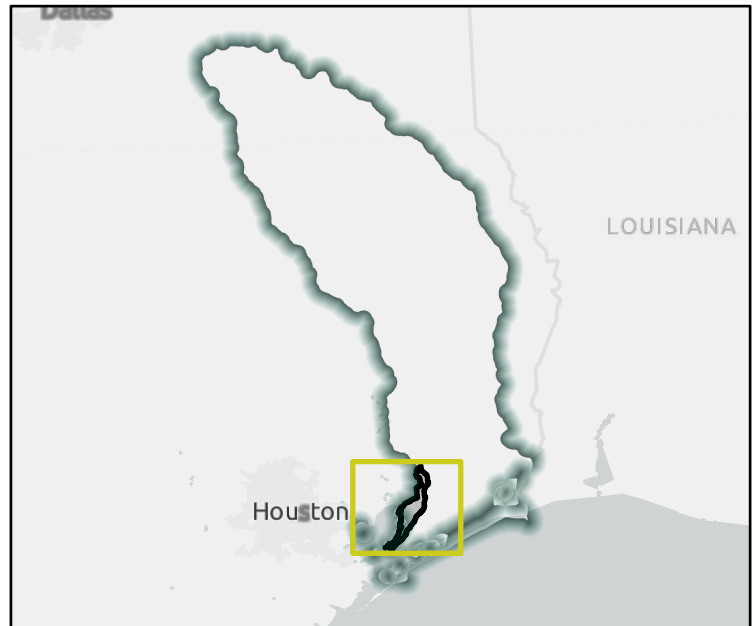
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

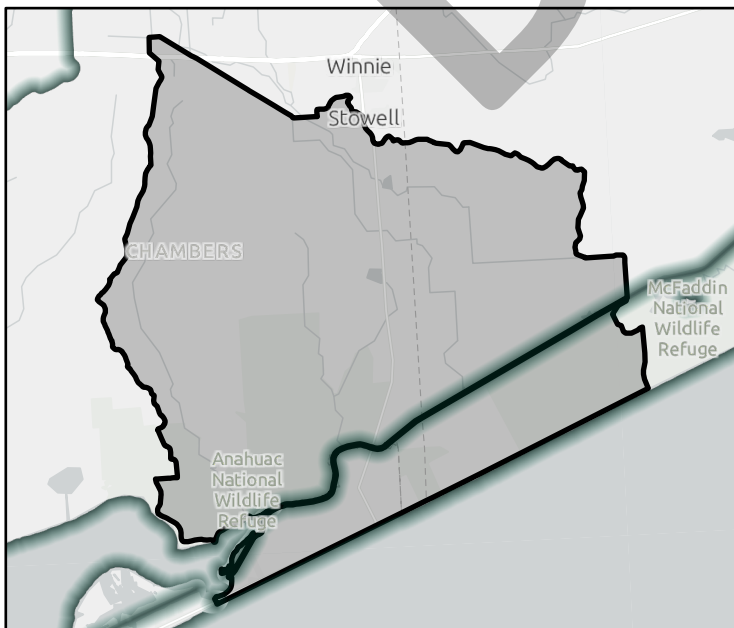
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

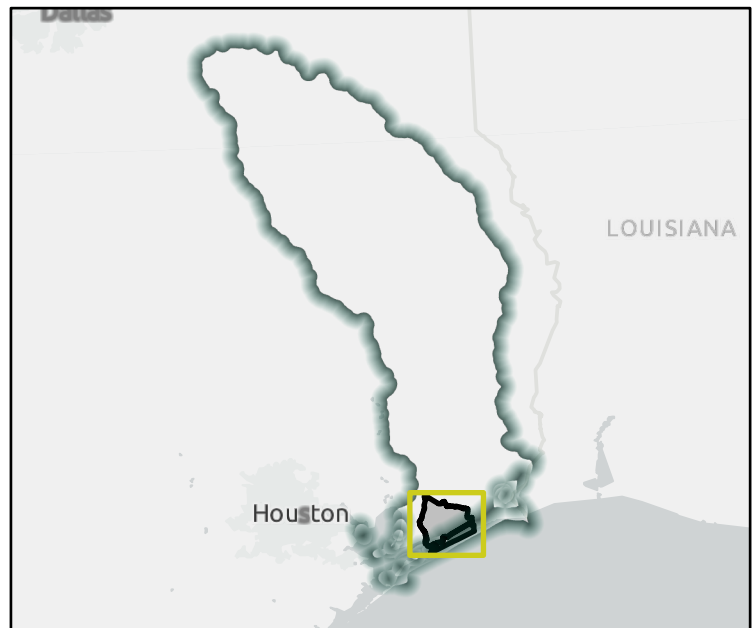
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County Chambers

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

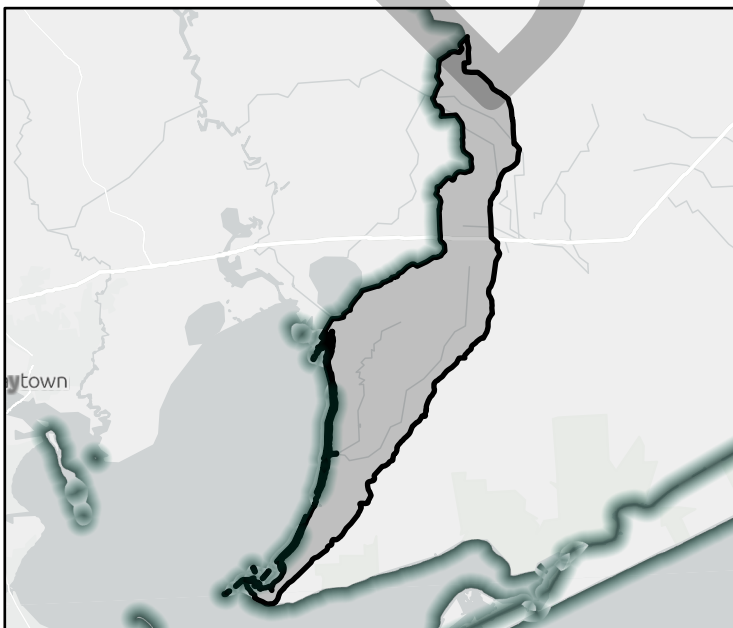
Flood risk type: Riverine?  Yes Coastal?  Yes Local Flooding?  No Other?  Yes

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

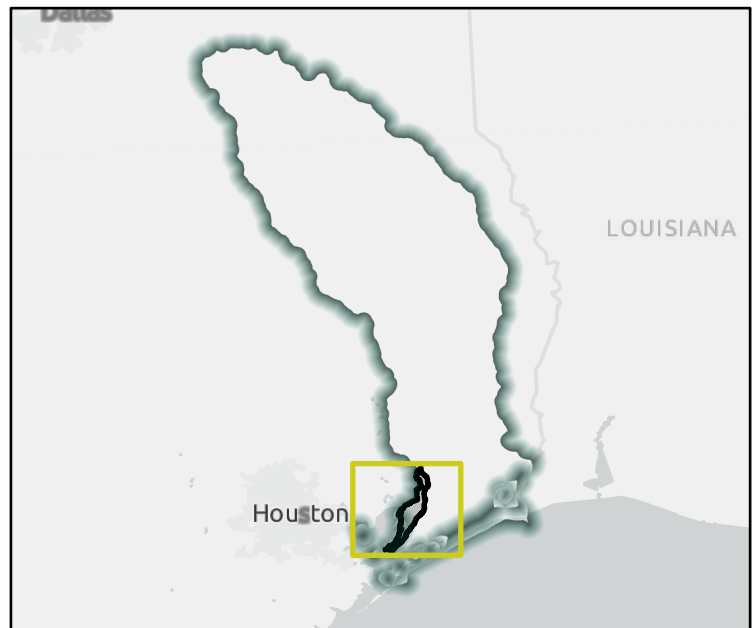
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  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

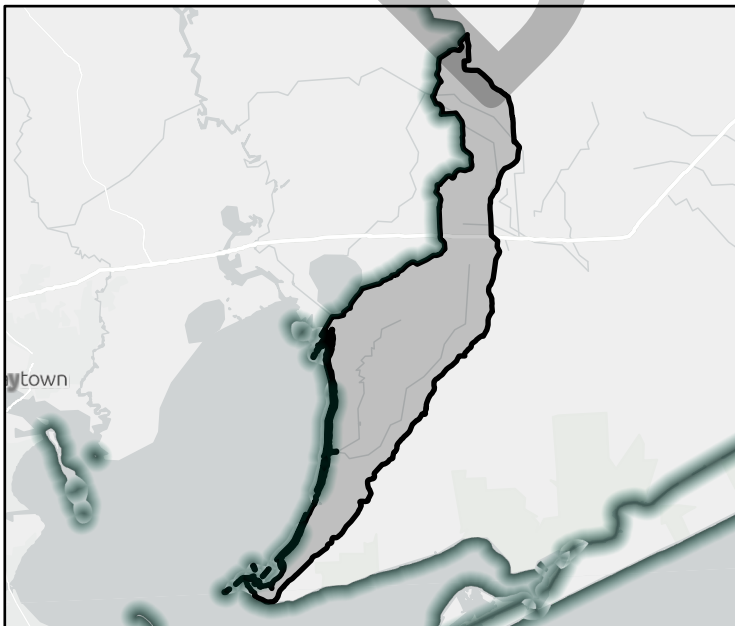
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

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

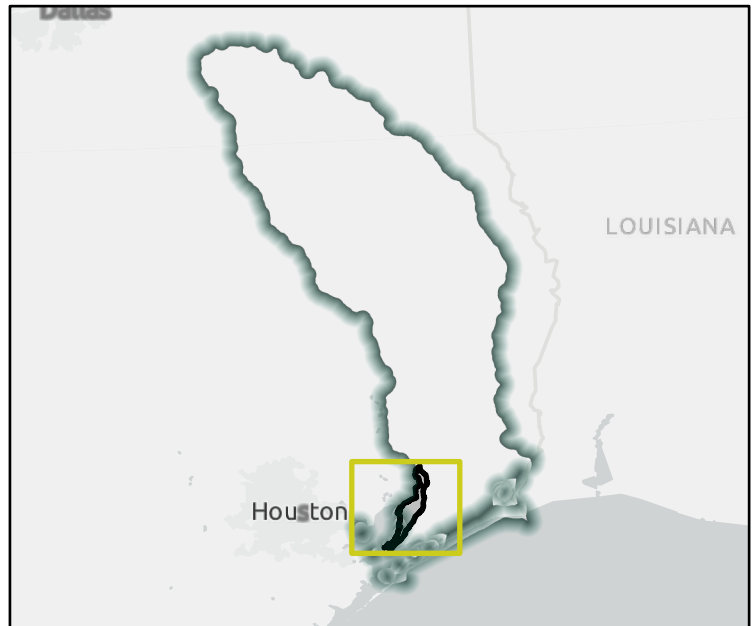
# of low water crossings 0 # of historical road closures 0

## 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

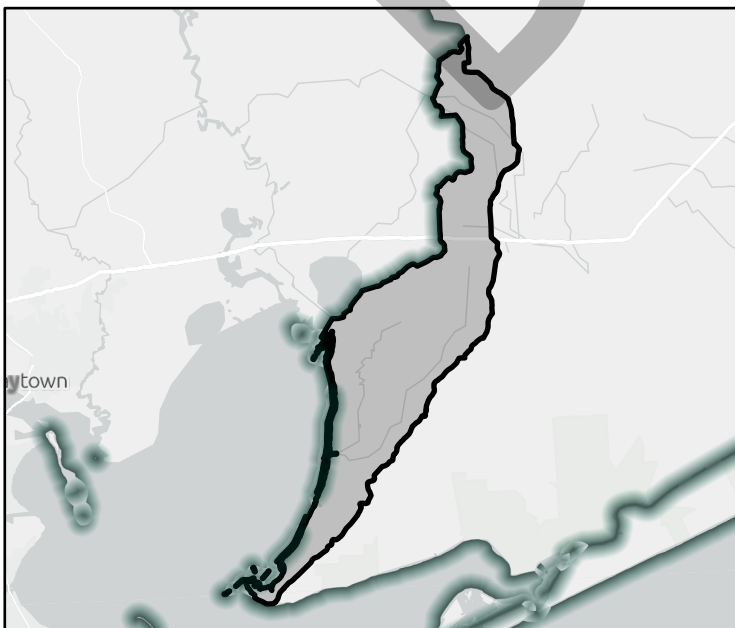
Flood risk type: Riverine? Yes Coastal? Yes Local Flooding? No Other? Yes

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

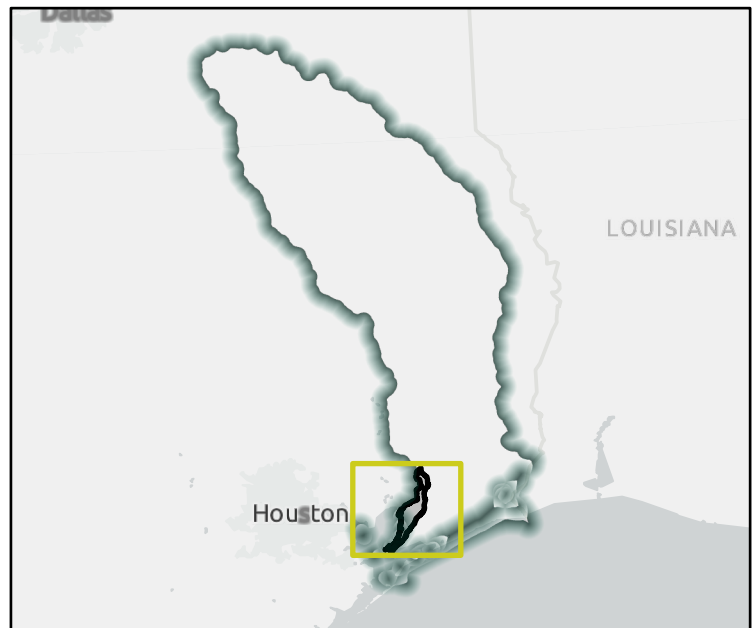
# of low water crossings 0 # of historical road closures 0

## 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

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

- 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  # of structures  # of critical facilities

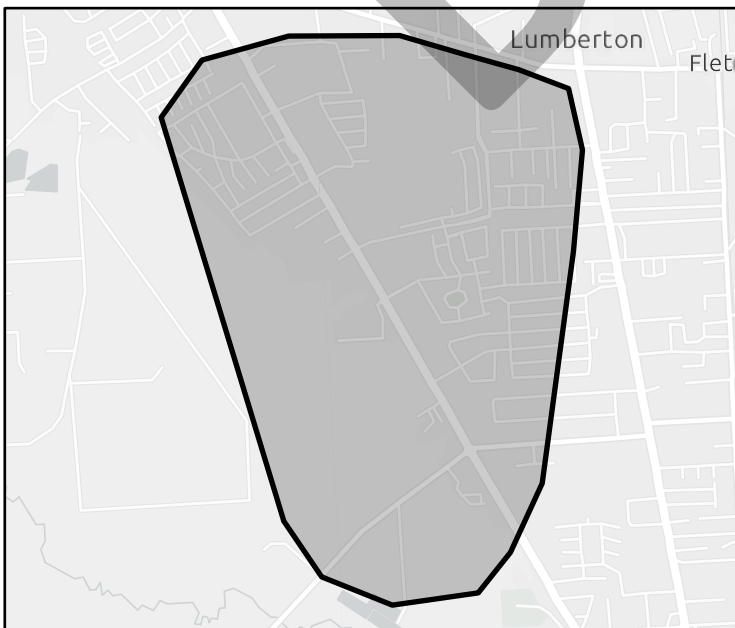
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

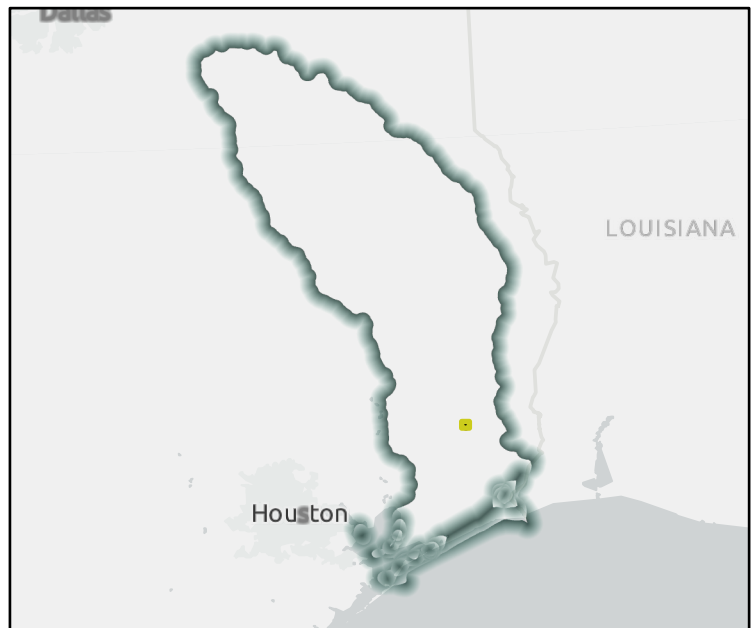
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

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  # of structures  # of critical facilities

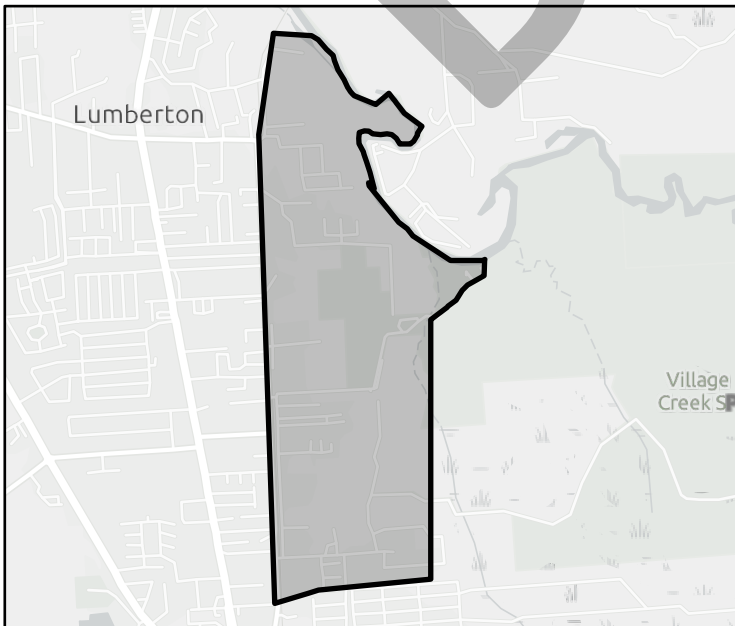
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

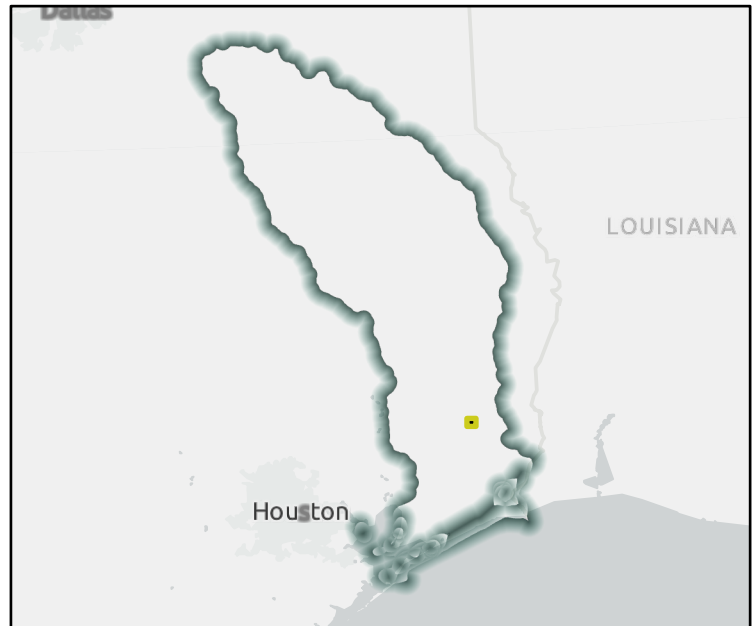
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County

Study description

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

- 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  # of structures  # of critical facilities

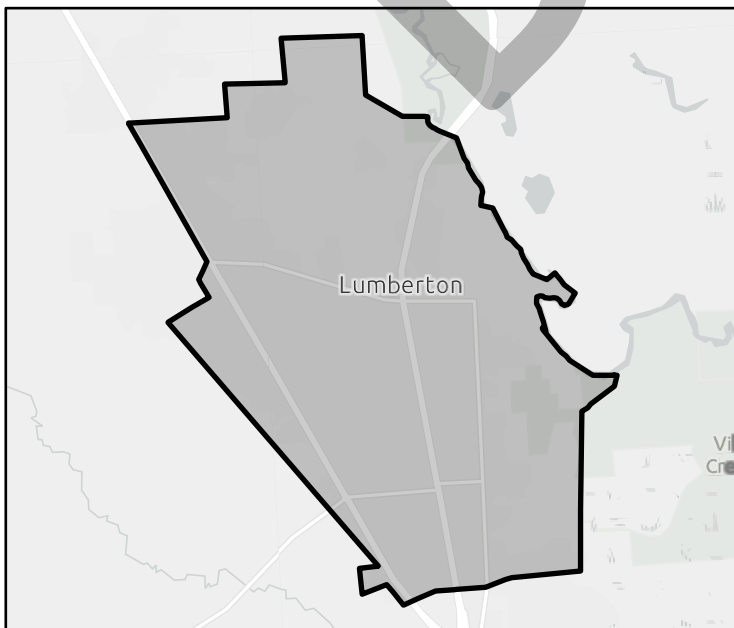
Flood risk type: Riverine?  Yes Coastal?  No Local Flooding?  No Other?  Yes

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  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

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

- 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  # of structures  # of critical facilities

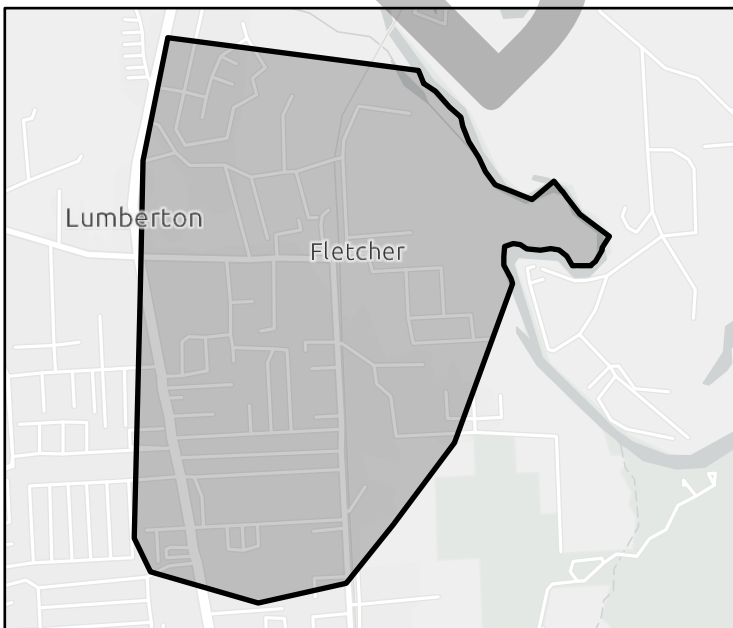
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

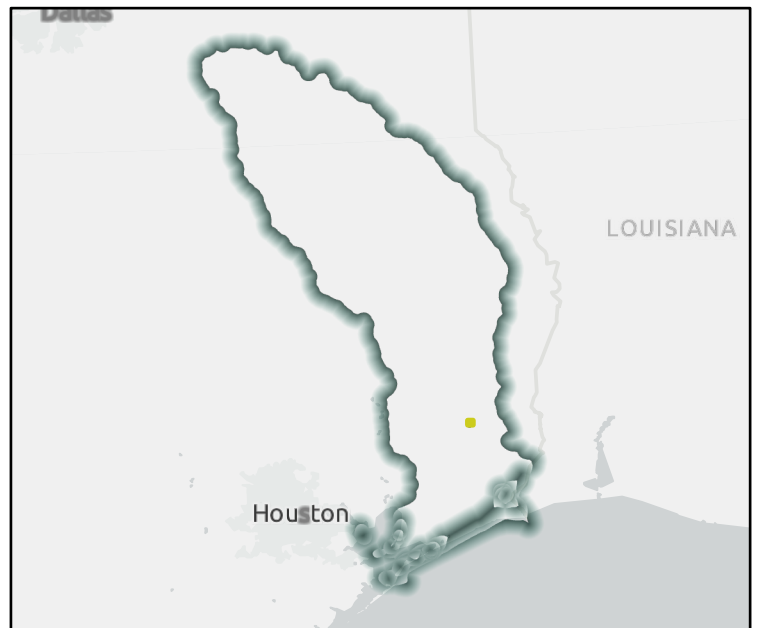
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

- 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  # of structures  # of critical facilities

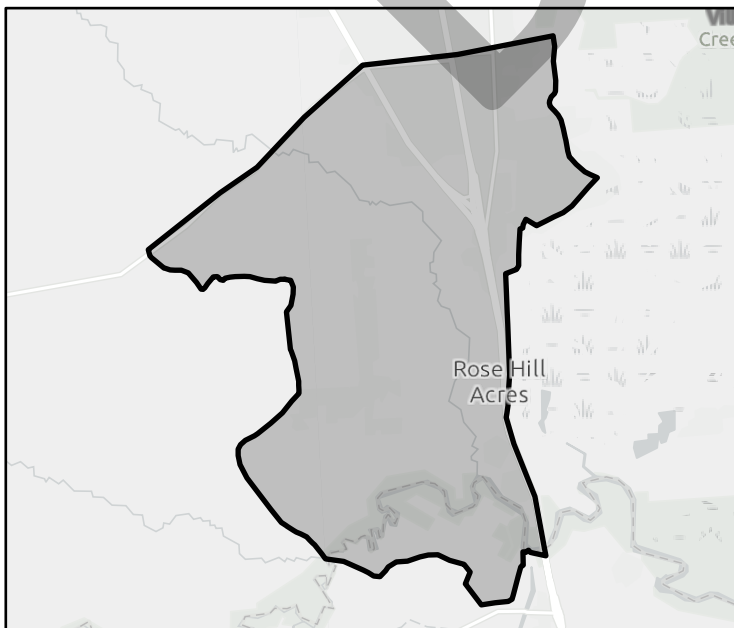
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County

Study description

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

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  # of structures  # of critical facilities

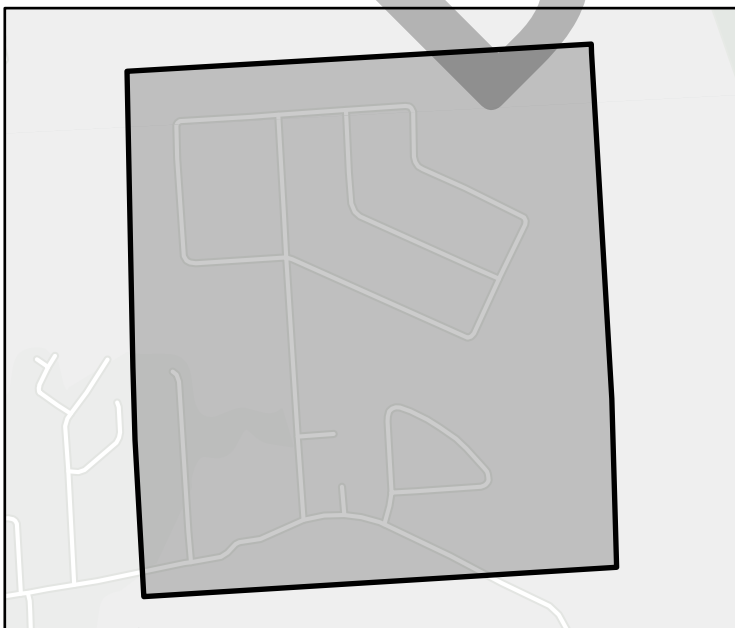
Flood risk type: Riverine?  Yes Coastal?  No Local Flooding?  No Other?  No

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  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

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Recommended by RFPG?  Reason for Recommendation

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Study description

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

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- 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  # of structures  # of critical facilities

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

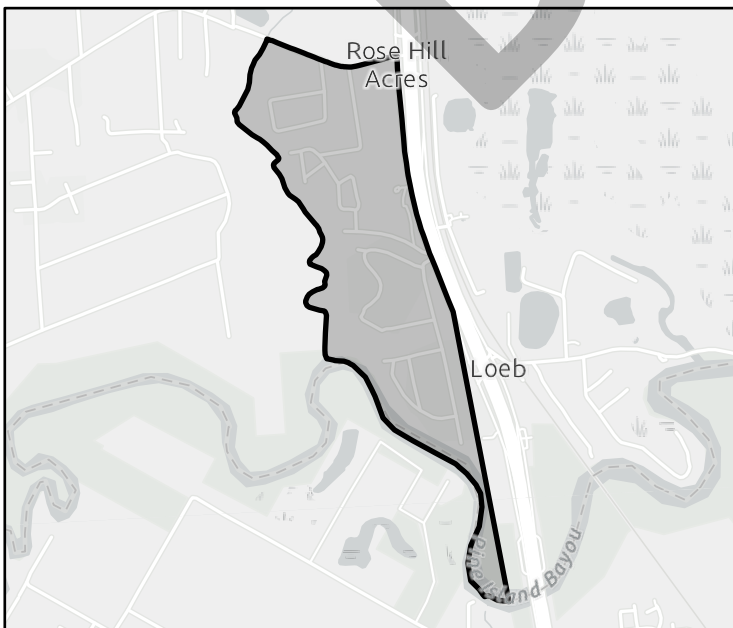
Farm/Ranch land impacted (ac.)  Roadways impacted (miles)

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?

Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

- Goal(s)
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  - 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  # of structures  # of critical facilities

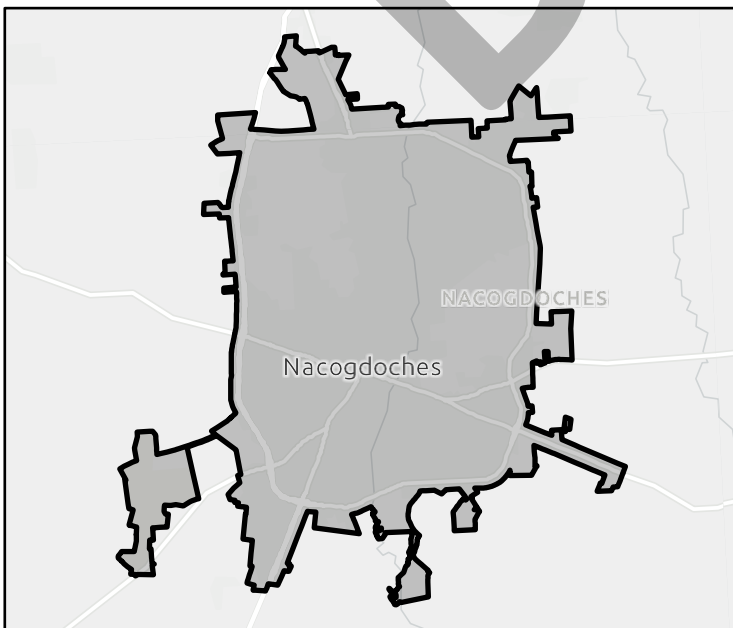
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

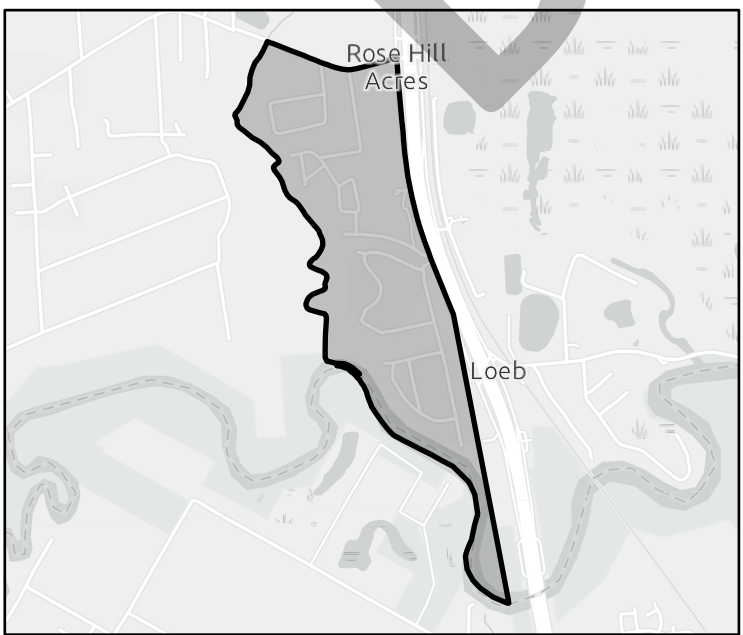
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

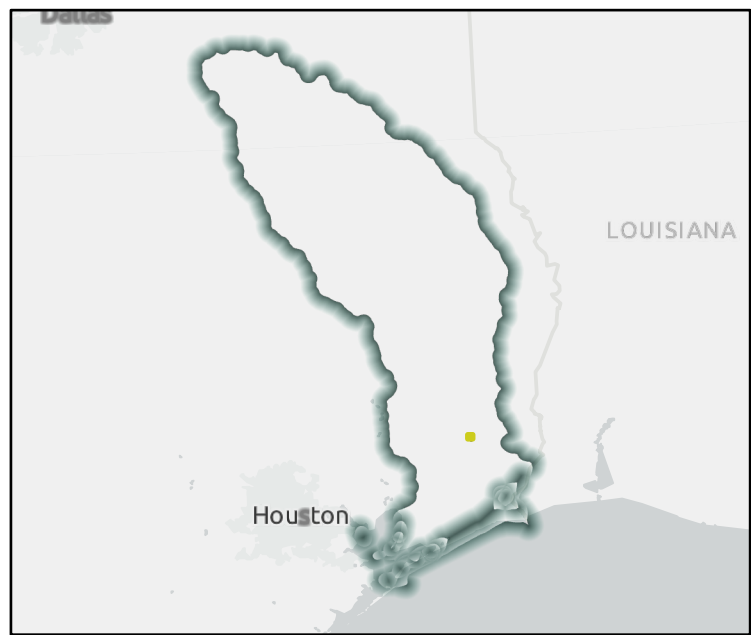
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

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  # of structures  # of critical facilities

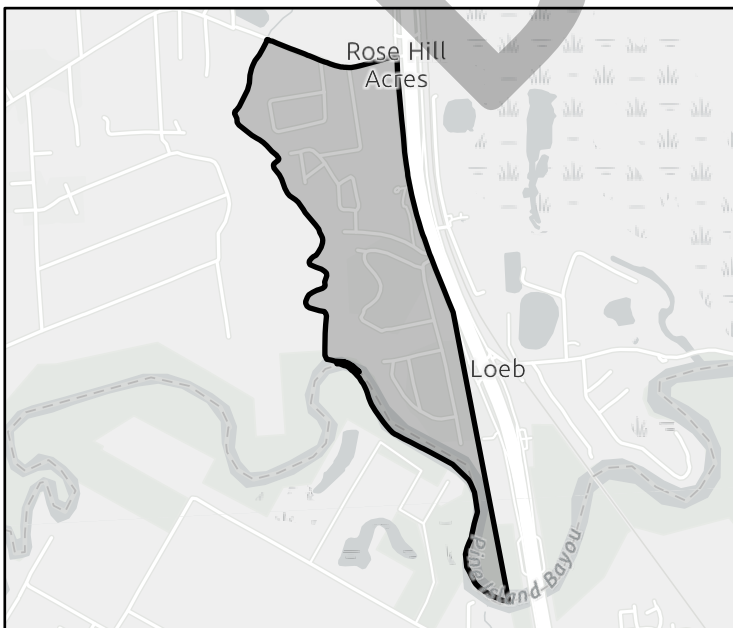
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County

Study description

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

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  # of structures  # of critical facilities

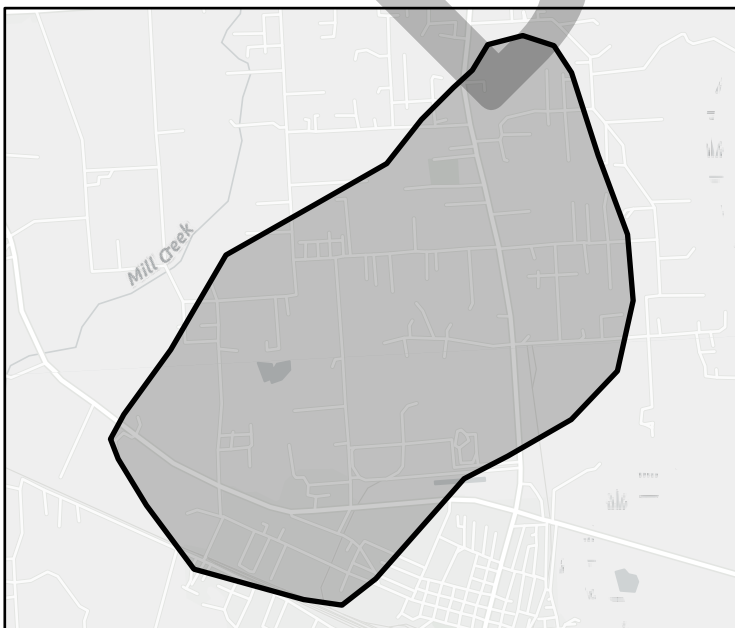
Flood risk type: Riverine?  Yes Coastal?  No Local Flooding?  No Other?  No

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  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

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Study description

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- 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.
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  - 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  # of structures  # of critical facilities

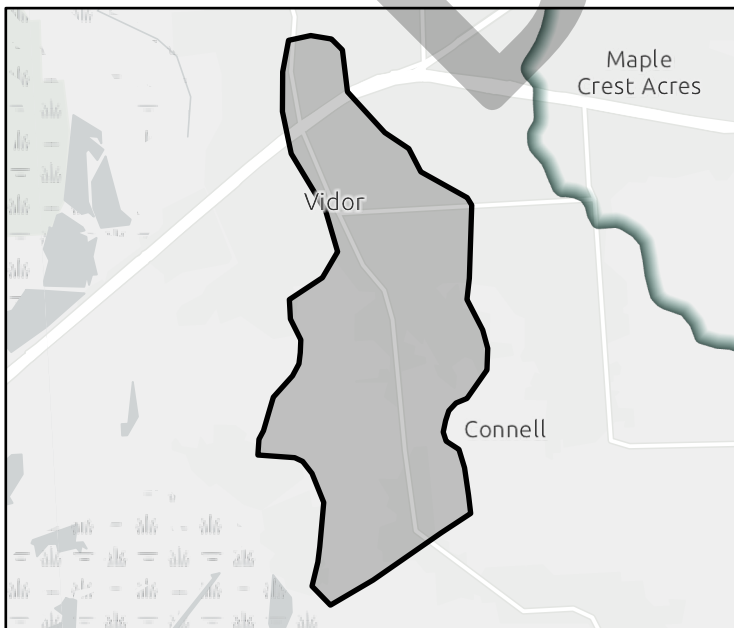
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

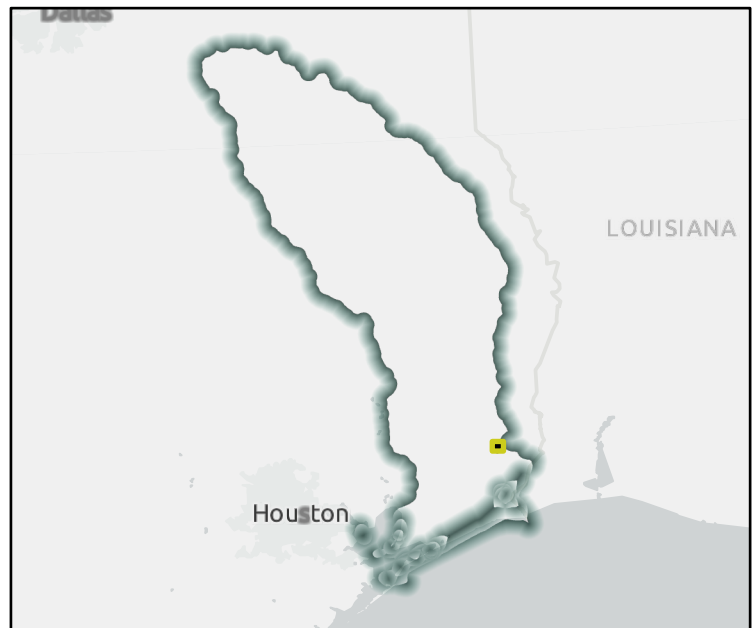
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

- 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.
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  - 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  # of structures  # of critical facilities

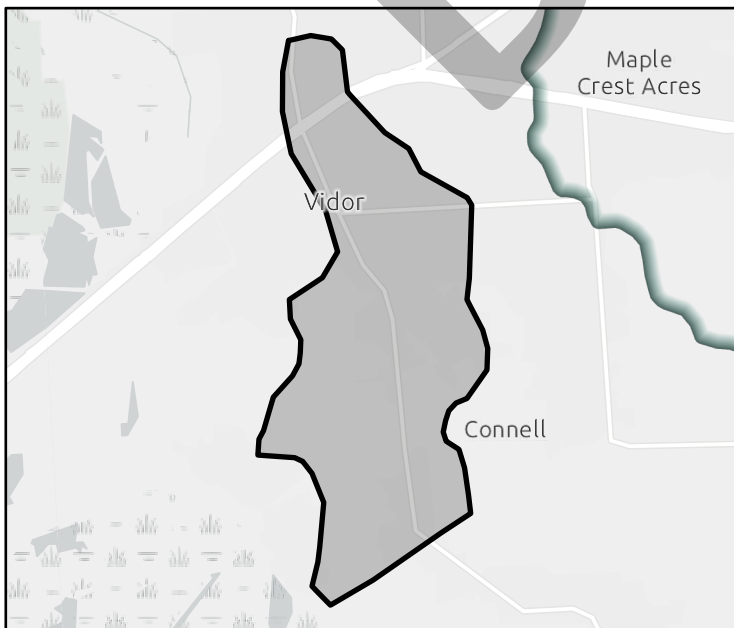
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

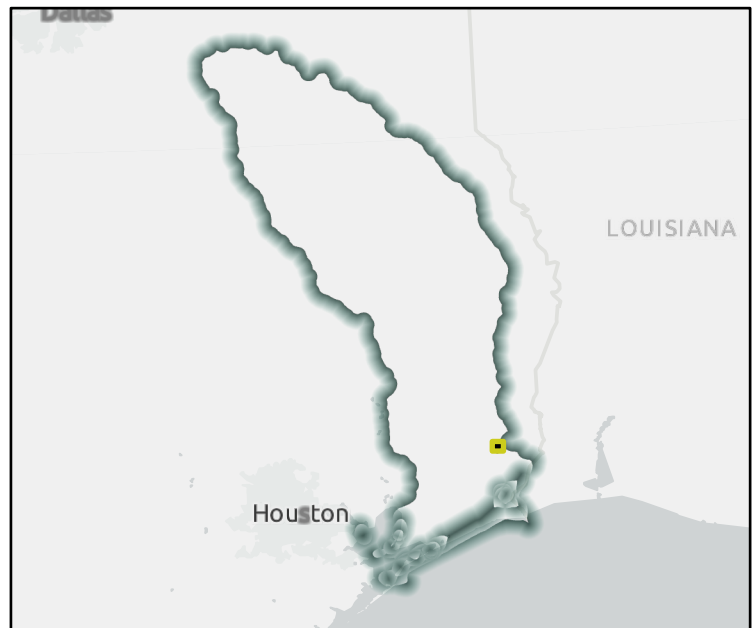
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area

# Flood Management Evaluation (FME)

REGION 5

# NECHES

REGIONAL FLOOD PLANNING GROUP

Title

ID#  Sponsor

Recommended by RFPG?  Reason for Recommendation

## Study Details

Study type  County

Study description

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

Goal(s)

## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

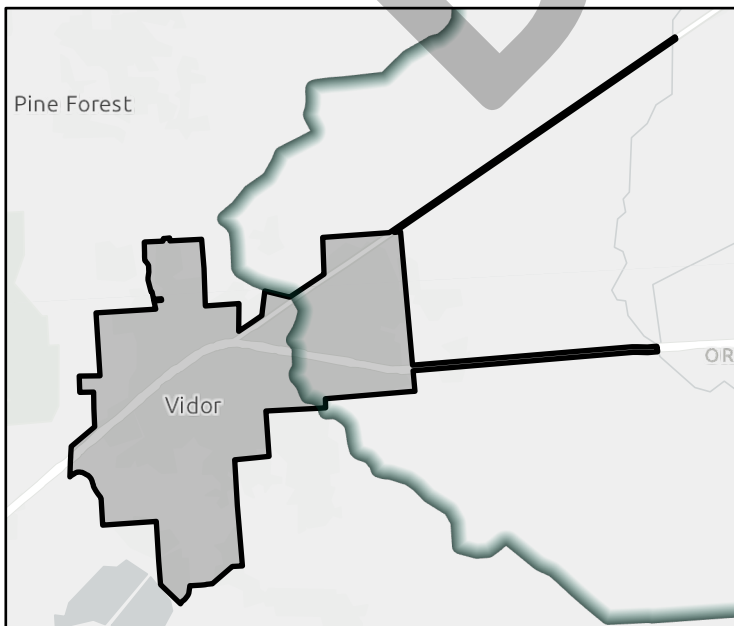
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

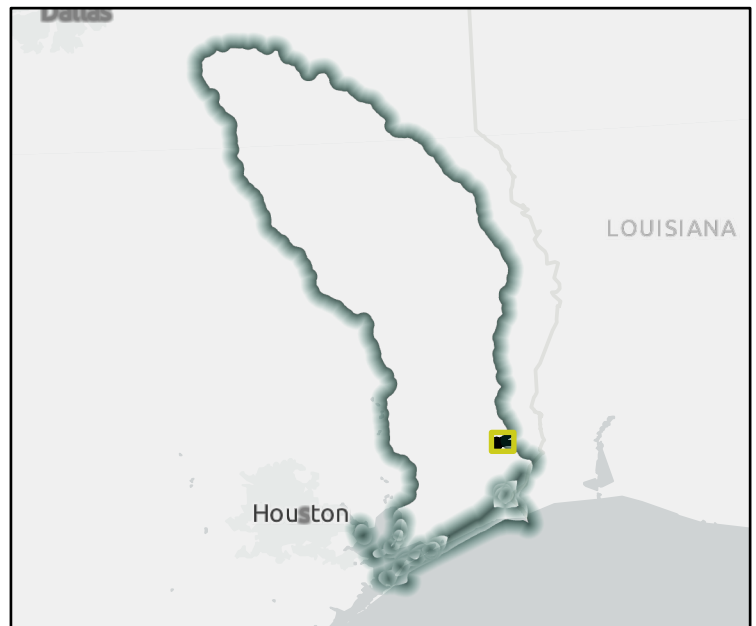
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area



# Flood Management Evaluation (FME)

REGION 5



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**

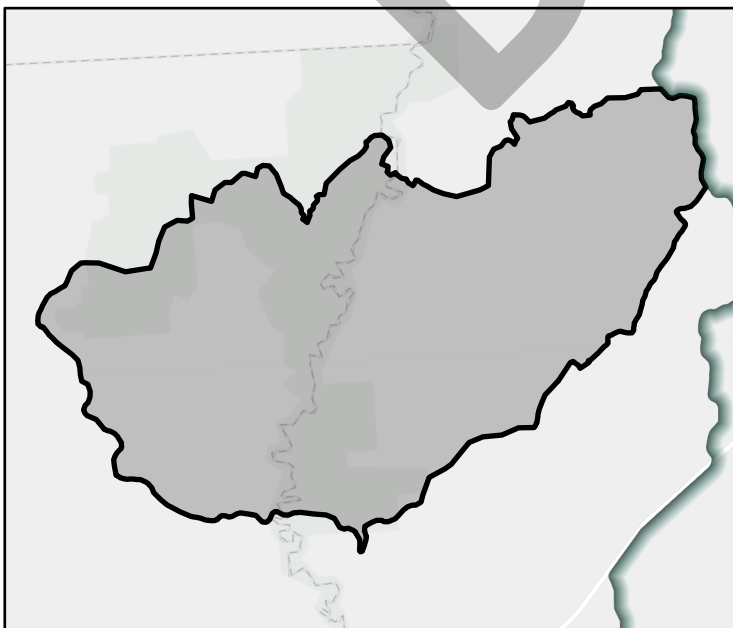
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **No**

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

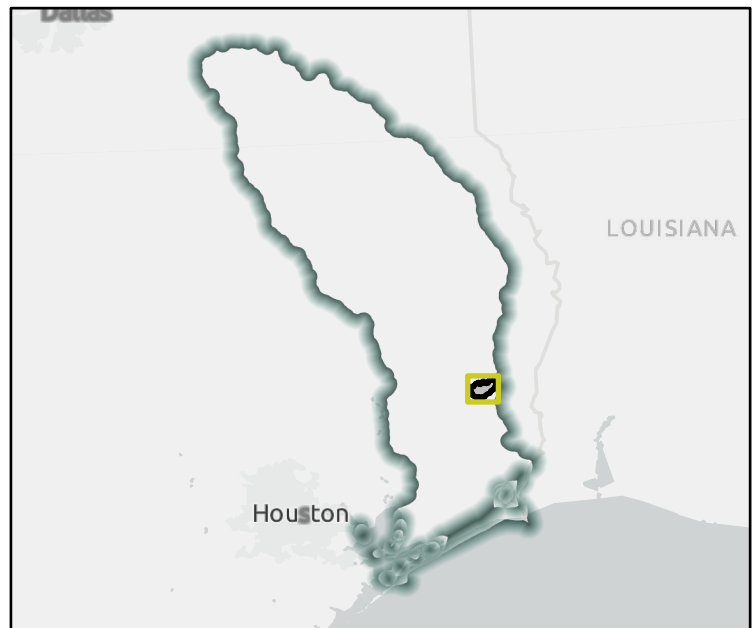
# of low water crossings **0** # of historical road closures **0**

## 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.**  
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**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**

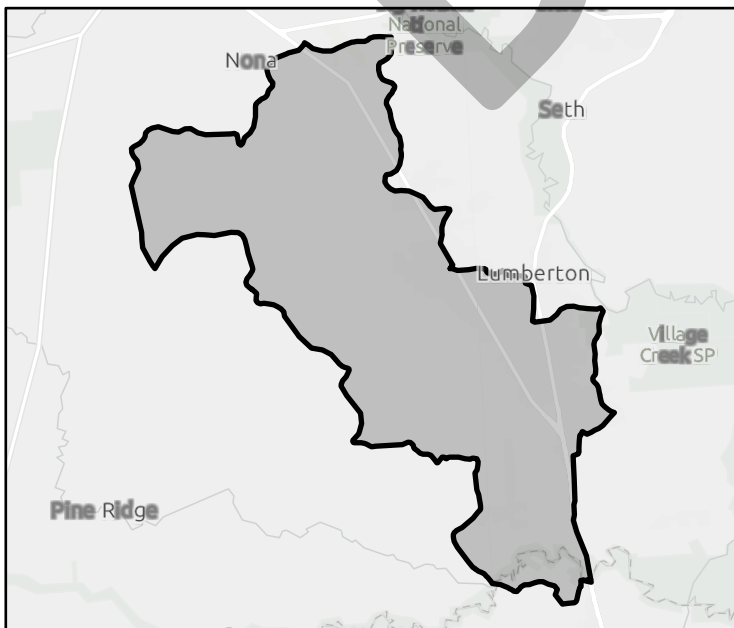
Flood risk type: Riverine? **Yes** Coastal? **No** Local Flooding? **No** Other? **Yes**

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

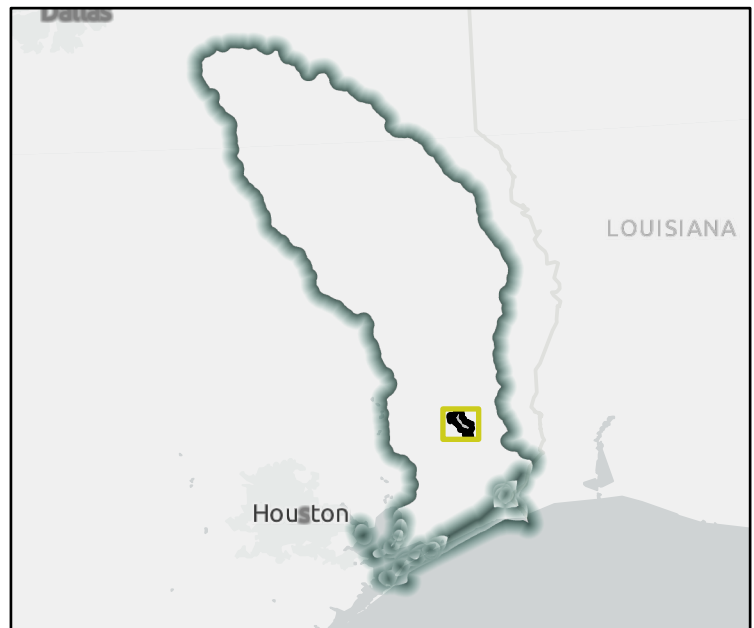
# of low water crossings **0** # of historical road closures **0**

## 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

ID#  Sponsor

Recommended by RFPG?  Yes Reason for Recommendation

## Study Details

Study type  County

Study description

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

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.  
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## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

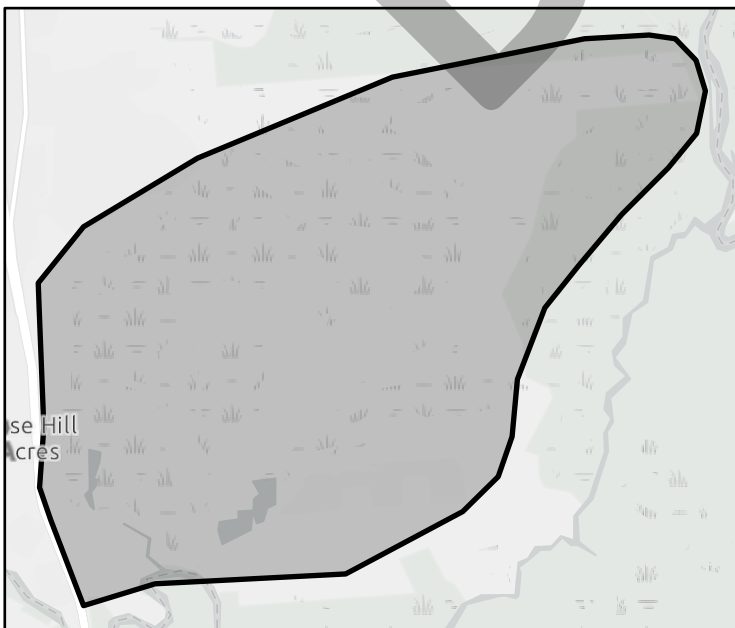
Flood risk type: Riverine?  Yes Coastal?  No Local Flooding?  No Other?  No

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

# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  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

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Study description

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

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## 100-Year Flood Risk Summary

Population at risk  # of structures  # of critical facilities

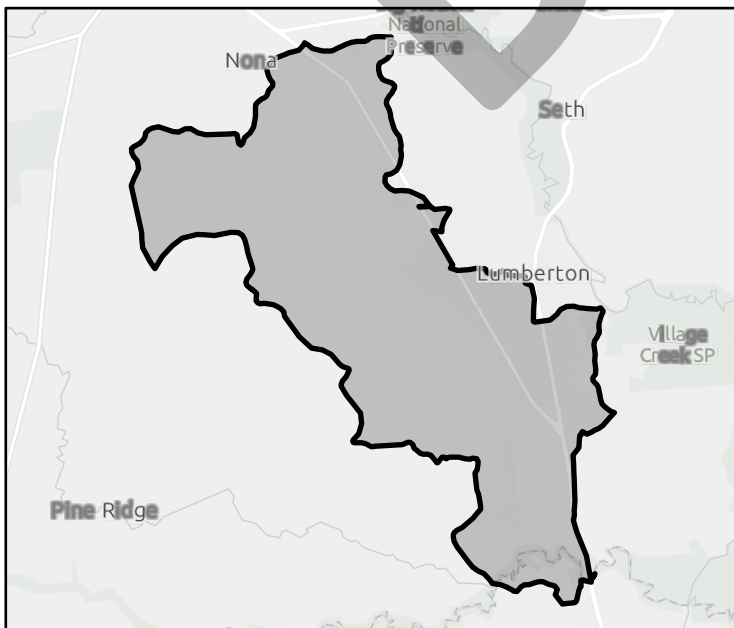
Flood risk type: Riverine?  Coastal?  Local Flooding?  Other?

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

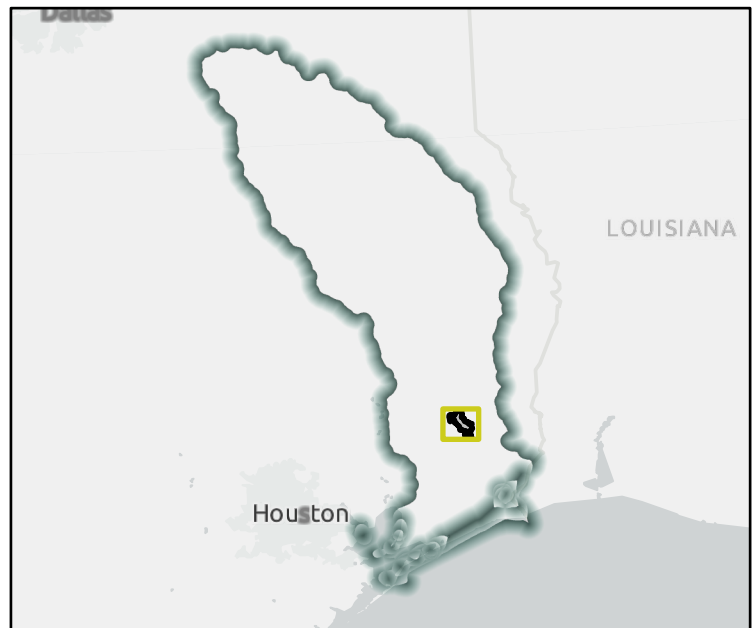
# of low water crossings  # of historical road closures

## Estimated Cost and Funding Availability

Total Cost  Potential federal funding availability?  Potential Federal Funding Sources



FME Area



Regional view of FME area