

Working Committee Meeting


Neches Regional Flood Planning Group

May 20, 2022

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Agenda

- Draft Chapter 1 submitted to RFPG on 05/18/22
- Task 4B Update
 - Overview of Additional FMXs obtained
 - Analysis Components
 - FME/FMS One Page Summaries
- Task 5 Discussion
 - FME/FMS Recommendation Discussion





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Task 4B – New FMXs

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- City of Beaumont Meeting on 04/18/2022
 - Update Master Drainage Plan with Atlas 14 Rainfall
 - Coordinating on additional FMXs
- Hardin County Meeting on 05/11/22
 - FMEs – 32
 - FMSs – 32
- Jefferson County DD6
 - FMEs – 2
 - FMPs - 5
- Jefferson County DD7
 - FMEs – 35
- GLO East Region Coordination
 - Reviewing Community Risk Assessments
- A total of 107 new FMXs identified!

Hardin County
Elevate existing roadways and bridges prone to inundation from flooding

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Task 4B – Analysis Components

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- Continued coordination with stakeholders in the region to obtain necessary information
- For all Flood Mitigation Actions (FMEs, FMPs, and FMSs):
 - Compile **Project Information** including **Flood Exposure Data**
 - Develop planning-level **Cost Estimates**
 - Identify a willing **Project Sponsor**
 - Identify **Funding Sources**
- For FMPs (and some FMSs):
 - Perform **Benefit-Cost Analysis**
 - Provide **No Negative Impact Certification**

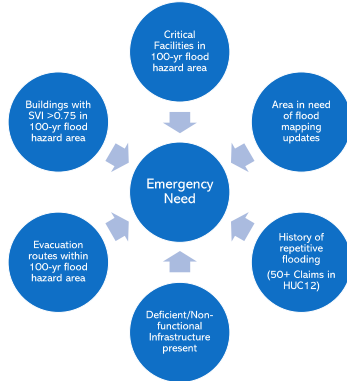
Flood Exposure Data (100-yr Flood)

- Structures
- Population
- Critical Facilities
- Low Water Crossings
- Agricultural Areas
- Roads

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Region 5 Emergency Need Definition

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Only one requirements needs to be met for Emergency Need to be satisfied.

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Flood Management Evaluations

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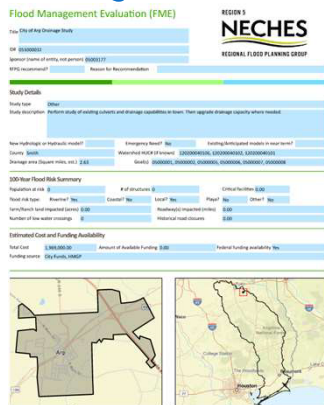
- 64 FMEs identified
- Cost estimates range from \$25,000 to \$92,500,000
- Estimates developed based on past project scopes and fees, FEMA blue book unity prices, and existing project estimates

FME Type	FME Description	Number of Evaluations	Total Cost
Watershed Planning	Flood Mapping Updates	22	\$35,793,000
	Master Drainage Plan	34	\$54,253,500
Project Planning	Feasibility Assessments	7	\$4,518,000
	Project Design Development	24	\$252,529,244
Other	GIS development, dam evaluations, data collection systems	8	\$5,827,000
Total		95	\$352,920,744

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Review FME One Page Summaries

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Flood Management Strategies

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- 122 FMSs identified
- Cost estimates range from \$1,000 to \$31,000,000
- Estimates developed based on past project scopes and fees and costs from HMAPs

FMS Type	Description	Number of Strategies	Total Cost
Education and Outreach	Public education programs	28	\$667,285
Flood Measurement and Warning	Warning systems and gages	19	\$8,822,000
Property Acquisition and Structural Elevation	Acquiring properties and creating regulation to raise future structures	14	\$13,465,800
Regulatory and Guidance	NFIP participation, CRS, stormwater utility fee development	24	\$671,500
Infrastructure Projects	Gates at low water crossings, Amarillo capital improvements list	35	\$63,617,000
Other	Maintenance	2	\$157,000
Total		122	\$87,400,585

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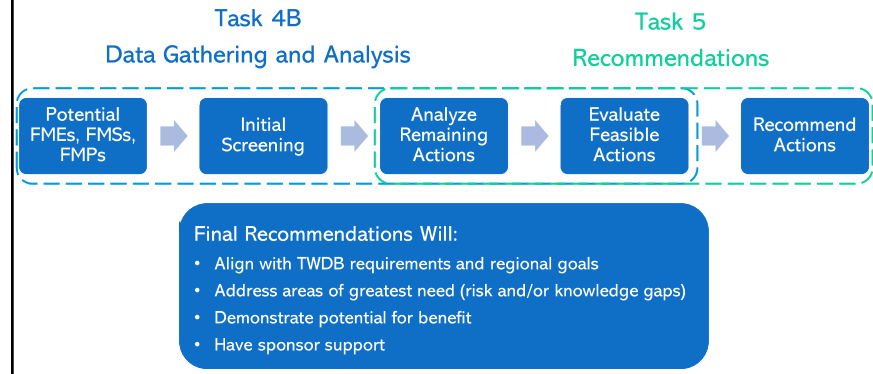
Review FMS One Page Summaries

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Task 4B & Task 5 Relationship

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Task 5 – Process for Recommending FMEs

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- 1. Review Goals**
 - Remove FMEs that do not support a goal.
 - Identify FMEs, as feasible, in areas of greatest need.
- 2. Contact Sponsors**
 - Verify study has not been completed or funded.
 - Verify sponsor interested in potential FMS.
 - Request additional data to refine FME.
- 3. Analyze**
 - Refine FME areas as needed.
 - Develop Flood Exposure Data.
 - Calculate cost for FME.
- 4. Evaluate**
 - Identify FMEs that could result in the greatest benefits.
 - Identify FMEs that have potential to develop FMPs for next cycle.
 - Identify FMEs that could be developed into FMPs in Task 12.
- 5. Recommend**
 - Present FME recommendations to RFPG.
 - RFPG votes to approve recommendations.

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