

Flood Management Evaluation (FME) STUDY

Lower Colorado-Lavaca
**REGIONAL FLOOD
PLANNING GROUP**

Title Identify and Assess Flood Risk and Potential Mitigation Solutions for High SVI Communities ID# 101000194

Sponsor (note if City or County) Lower Colorado-Lavaca RFPG Commitment Yes No

REGION 10

Study Type

Emergency preparedness Floodplain modeling, mapping and risk assessment Feasibility study Preliminary project engineering
 Other

Problem Area

City Multiple TBD County Multiple TBD

Watershed name(s) Multiple TBD

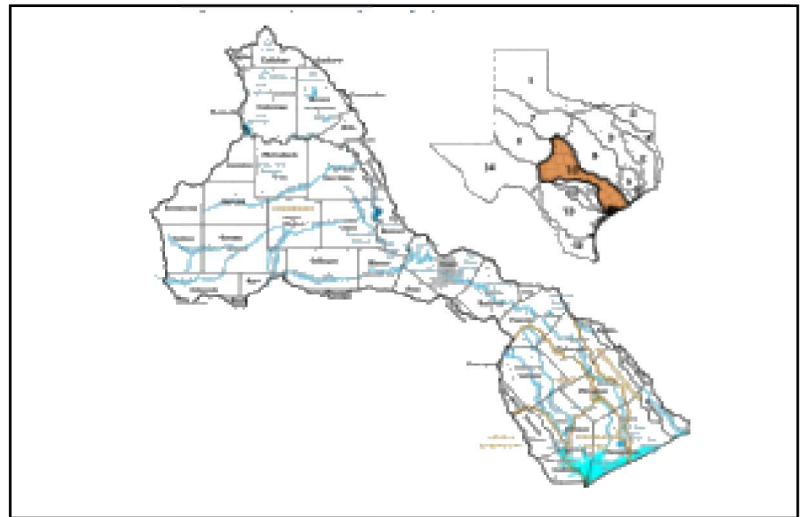
Tributary(ies)

HUC#(s) Stream miles (est.)

Drainage area: square miles, est or acreage, est

Social Vulnerability Index (SVI) Minimum 0.75 for each problem area
(SVI score 0.0 indicates least vulnerable; 1.0 indicates most vulnerable.)

Other Watershed study



Flood Risk Description

The Lower Colorado-Lavaca Regional Flood Planning Area has a large number of structures mapped to be at risk. Some of these areas are in socially vulnerable communities, which are disproportionately affected by flood impacts. Those with limited means are much more challenged to recover from flood losses and often cannot afford flood insurance to mitigate these losses. For a number of reasons, the residents of these communities may be less likely to notify their local authorities of the flooding problems and losses they have suffered. This means that many of these flood problem areas are under-reported and/or entirely unknown to their respective municipal and county governments. This combination of deeper vulnerability and lack of attention calls for an effort to proactively seek out these communities to more fully assess and document their flood risk, consider potential solutions, and lay out a path to implement feasible and appropriate solutions. Other RFPG Goals (no room yet in Related Goals box below): 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

Population at risk TBD Structures at risk TBD Critical facilities at risk (number) TBD

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

Scope of Study

This FME will conduct a technical study to identify high-priority flood problem areas in high social vulnerability index (SVI) locations throughout the Lower Colorado-Lavaca Regional Flood Planning Area (Region 10). Potential study areas will be identified using available data, assessing flood risk, exposure, and vulnerability. Available data includes the "floodplain quilt" developed for this Regional Flood Plan along with other available geospatial data (e.g., building footprints and Social Vulnerability Index). The study would rank the resulting flood problem areas by severity and develop feasibility-level solutions for the highest priority areas, generally those with a combination of the greatest flood risk/exposure and solution feasibility. This information would be shared with the corresponding municipal and county governments to consider sponsor solution implementation. TWDB funds are scored on a needs-based scale, which would help these projects secure grant or low-interest loan funding, thus making the projects more feasible and thus helping these vulnerable populations reduce their flood risk.

Related Goal(s)

Regional and State Flood Plan Guidance Principles ask that regional and state flood plans "focus on: identifying both current and future flood risks, including hazard, exposure, vulnerability and residual risks" and that they "consider protection of vulnerable populations." 5.1 Reduce the number of structures and critical

Estimated Study Cost

Cost \$150,000 Potential funding source(s) FEMA Cooperating Technical Partners (CTP) Program, TWDB FIF, local funds