

Navigating the Flood Mitigation Funding Programs at the Texas Water Development Board

Matching need with Funding Opportunities

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Texas Water Development Board

Hazard Mitigation Grant Programs

Grants

Flood
Mitigation
Assistance

Flood
Protection
Planning

Hazard
Mitigation
Grant
Program

Pre-
Disaster
Mitigation

Texas Agency

Texas Water
Development
Board

Texas Division
of Emergency
Management

Key

HMA
Grant-Federal
Grant Program

State Grant
Program

Graphic courtesy of TWDB

Flood Protection Grant

(Flood Protection Planning Grant)

General Information

- Biannual State grant program
- 1.8 million available
- 50% cost sharing requirement

Flood Protection Grant Program

Eligible Activities

- Flood Protection Planning

The intent of flood protection planning is to conduct detailed studies of known or potential floodplains to better inform the development of flood protection strategies for watersheds through structural and nonstructural measures before a flood event, such as

- determining and describing problems from or related to flooding,
- identifying and planning solutions to flooding problems, and
- estimating the benefits and costs of these solutions.

- Flood Early Warning Systems

The intent of flood early warning systems is to provide a tool for communities to warn its constituents in the event of a flood. Examples include but are not limited to developing a plan for implementing or the installation of

- sirens,
- reverse 911 call systems,
- automatic reporting for river and/or rainfall gauges, and
- information technology to monitor, detect, and assimilate data for flood prediction.

- Flood Response




The intent of implementing local flood response strategies is to help communities better respond to a flood event on a local level to minimize long-term hardships associated with the event. Strategies can include but are not limited to

- hazard analysis and remediation,
- evacuation plans, and
- outreach to constituents to relay information on mitigation and evacuation.

Hazard Mitigation Assistance Grant Programs

For Riverine Flood Mitigation, Federal Grants Provide \$7 Benefit for Each \$1 Invested

\$83 BILLION IN SAVINGS

National Benefit-Cost Ratio Per Peril <small>*BCR numbers in this study have been rounded</small>		
Overall Hazard Benefit-Cost Ratio		
	Federally Funded	Beyond Code Requirements
 Riverine Flood	7:1	5:1
 Hurricane Surge	Too few grants	7:1
 Wind	5:1	5:1

Graphics from Natural Hazard Mitigation Saves: 2017 Interim Reports, National Institute of Building Sciences

In 2016, nearly

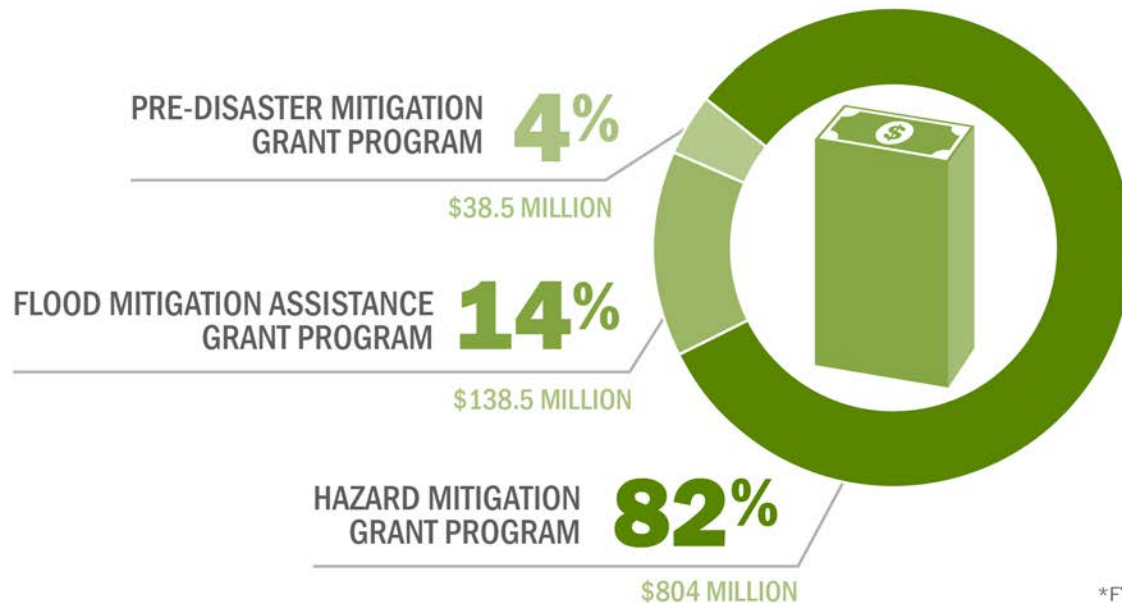
ONE BILLION DOLLARS

in Pre- and Post-Disaster

Hazard Mitigation Assistance Grants

was delivered to states, tribes, and communities
that will result in mitigation actions that

reduce risk



*FY 2016 Data

Source: Mitigation Minute, FEMA

Hazard Mitigation Assistance Application Process

Individual homeowners, businesses, and private nonprofits may apply for funding through eligible subapplicants



Subapplicants

Federally-Recognized Tribes

State Agencies

Private Nonprofits
(HMGP only)

Tribal Agencies

Local Governments/
Communities



Applicants

Territories

Federally-Recognized Tribes

States



FEMA

Graphic courtesy of FEMA

Hazard Mitigation Assistance Funding Opportunity and Eligibility

Funding Opportunity

- Flood Mitigation Assistance (FMA-\$175 Million) and Pre-Disaster Grant programs (PDM-\$250 Million)

Upcoming application period: On or around October 1, 2018 through January 31, 2018.

- Hazard Mitigation Grant Program (HMGP-\$1.2 Billion)
Currently opened

Eligibility Requirements

- FEMA approved Flood Mitigation Plan
- Benefit Cost Analysis with a ratio of 1.0 or higher
- ***Structure must be covered under NFIP policy***

Hazard Mitigation Assistance Grant Programs

Eligible Activities

Eligible Activities	HMGP	PDM	FMA
1. Mitigation Projects	✓	✓	✓
Property Acquisition and Structure Demolition	✓	✓	✓
Property Acquisition and Structure Relocation	✓	✓	✓
Structure Elevation	✓	✓	✓
Mitigation Reconstruction	✓	✓	✓
Dry Floodproofing of Historic Residential Structures	✓	✓	✓
Dry Floodproofing of Non-Residential Structures	✓	✓	✓
Generators	✓	✓	
Localized Flood Risk Reduction Projects	✓	✓	✓
Non-Localized Flood Risk Reduction Projects	✓	✓	
Structural Retrofitting of Existing Buildings	✓	✓	✓
Non-Structural Retrofitting of Existing Buildings and Facilities	✓	✓	✓
Safe Room Construction	✓	✓	
Wind Retrofit for One- and Two-Family Residences	✓	✓	
Infrastructure Retrofit	✓	✓	✓
Soil Stabilization	✓	✓	✓
Wildfire Mitigation	✓	✓	
Post-Disaster Code Enforcement	✓		
Advance Assistance	✓		
5 Percent Initiative Projects*	✓		
Miscellaneous/Other**	✓	✓	✓
2. Hazard Mitigation Planning	✓	✓	✓
Planning-Related Activities	✓		
3. Technical Assistance			✓
4. Management Costs	✓	✓	✓

Source: Hazard Mitigation Assistance Guidance

Over the last 20 years, the

Flood Mitigation Assistance Grant Program has provided

MORE
THAN **\$600** MILLION
FOR **2,031** GRANTS SUPPORTING **1,516** PROJECTS.

FMA funding is available to

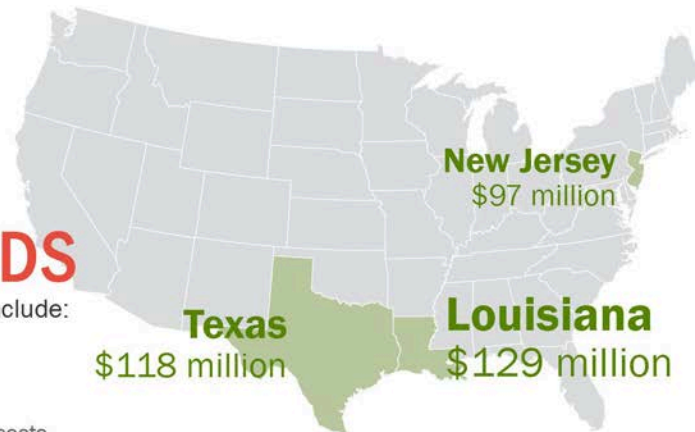
States, Tribes, Territories, AND Local Communities

with structures insured under the **National Flood Insurance Program.**

The **3 states**
that have received the

**MOST FMA
FUNDING AWARDS**

to date* include:



* Not including planning or management costs

Source: Mitigation Minute, FEMA

Cost Share Requirements for Hazard Mitigation Grant Program and Pre-Disaster Mitigation Grants

Federal 75%

Local 25%

Cost Share Requirement- Flood Mitigation Assistance Grant Program

- Severe Repetitive Loss share
Federal 100% and Local 0%
- Repetitive Loss share
Federal 90% and local 10%
- NFIP insured, drainage project, and plan share
Federal 75% and local 25%

Mitigation Action- Acquisition and Demolition



Photographs courtesy of TWDB



Photographs courtesy of TWDB



JAN 12 2006

Photographs courtesy of TWDB



Photographs courtesy of HCFC



Photographs courtesy of FEMA

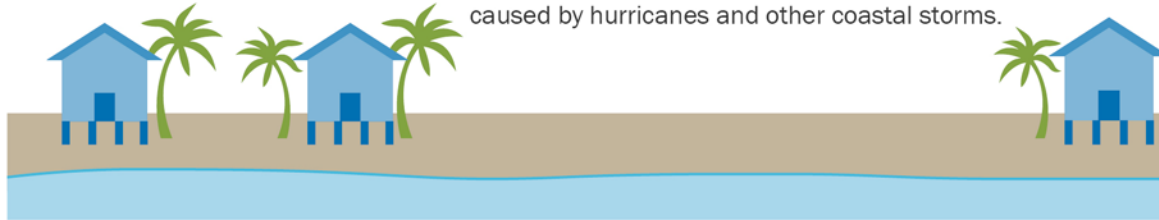
Since the beginning of
FEMA's Hazard Mitigation Assistance programs
in 1989, **FEMA has approved**

MORE
THAN

134 COASTAL ELEVATION
PROJECTS.

ELEVATING STRUCTURES in coastal areas
protects them **from flooding impacts**

caused by hurricanes and other coastal storms.



In total, **FEMA has provided**

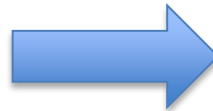
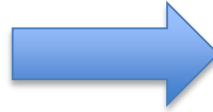
MORE
THAN

\$120 MILLION
to elevate 1,581 STRUCTURES

through the Hazard Mitigation, Pre-Disaster Mitigation, and
Flood Mitigation Assistance grant programs.

Source: Mitigation Minute, FEMA

Mitigation Action- Elevation



Photographs courtesy of TWDB

Mitigation Action- Mitigation Reconstruction (AKA Demo-Rebuild)

Before

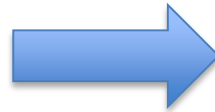


After



Source: J. Ward

Mitigation Action- Drainage Project



Photographs courtesy of TWDB

Texas Water
Development Board

Other Financial Assistance at TWDB

