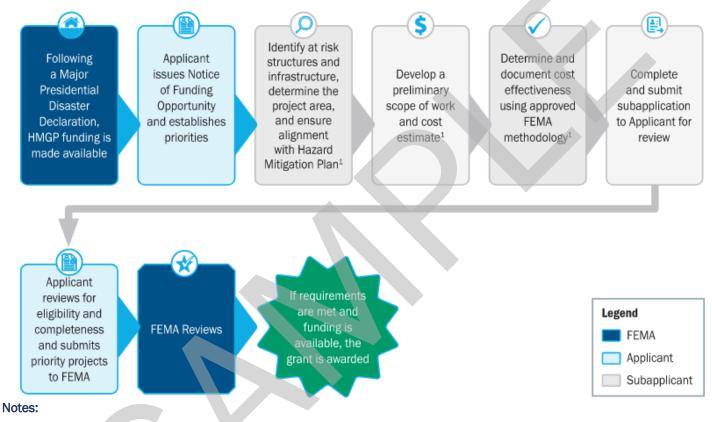
Flood Risk Reduction: Overview

*The following information is intended for guidance only and is not a request for information. The following template is only intended to help the reader understand the FEMA Hazard Mitigation Grant Program (HMGP) application process.

Purpose: Application templates have been developed to provide step-by-step instructions for specific project types. This application is intended to be used for projects that involve flood risk reduction. **Figure 1** shows the general process flow and decision points from a Major Presidential Disaster Declarations to grant award.



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(1) These activities may also occur prior to the Disaster Declarations and/or the Notice of Funding Opportunity.
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Figure 1: Flood Risk Reduction Project Process Overview

Prior to starting an application, it is recommended that you review the summary of data requirements (**Table 1**) needed to complete the application. Early submission of accurate and complete eligibility and pre-award information will facilitate FEMA's review process and the release of Hazard Mitigation Grant Program (HMGP) funds

The methodology used to evaluate cost-effectiveness will affect data requirements for the application. There is one method to evaluate cost-effectiveness for a flood risk reduction project:

 Benefit-cost analysis (BCA) using the BCA Toolkit via: Flood Module (Modeled Damages) or the Damage-Frequency Assessment (Historical Damages or Professional Expected Damages).



Key Resources

FLOOD RISK REDUCTION PROJECT APPLICATION AND INSTRUCTIONS

This application form is designed specifically for projects that involve flood risk reduction. The accompanying instructions provide definitions, explanations, and clarification on the information requested in each section of the application. This step-by-step guidance references additional FEMA resources to help direct you to more detailed information, if needed.

HAZARD MITIGATION ASSISTANCE TECHNICAL REVIEW JOB AID SERIES, FLOOD RISK REDUCTION TECHNICAL REVIEW

This Job Aid describes the requirements for the technical review process for Hazard Mitigation Assistance-funded flood risk reduction projects and provides a step-by-step approach to addressing each of the major components of an elevation project application.

HAZARD MITIGATION ASSISTANCE ENVIRONMENTAL PLANNING AND HISTORIC PRESERVATION (EHP) REVIEW JOB AID SERIES, FLOOD RISK REDUCTION: INFORMATION REQUIRED FOR ENVIRONMENTAL REVIEW

This Job Aid provides detailed guidance regarding information that should be included for flood risk reduction project applications, including recommended documentation and supplemental information needed to help FEMA conduct an EHP review. This Job Aid categorizes the components considered within FEMA's EHP review process, describes the information needed under each component, identifies potential sources of documentation, and provides examples.

Location and Scope of Work Information	Required Eligibility Data ¹	Required Pre-Award Data ²	Application Section and Number
Applicant/subapplicant contact information	✓		А
Project narrative describing the flood risk in the area	~		B1
Location of proposed project, description of existing conditions, and structures and infrastructures to be mitigated	~		B2
Detailed scope of work including tasks and key milestones	~		B3
Technical data to support SOW, such as available design plans, specifications, and engineering analyses	~		B5
Verification that the project will be designed and constructed to meet industry standards	~		В3
Documentation demonstrating that the project will not cause adverse effects upstream or downstream of the project site	~		B6
Description of alternatives (no action, alternative action, proposed project)	\checkmark		С
Schedule (schedule must be for 36 months or less)	✓		E
Project cost estimate with line items and supporting documentation	\checkmark		F
Representative photos of project area and surrounding area	✓		J

Table 1: Summary of Data Requirements

Location and Scope of Work Information	Required Eligibility Data ¹	Required Pre-Award Data ²	Application Section and
Cost-Effectiveness: Information required depends	unon the methodolo	nav used to show	Number
cost-effectiveness			
Note: This includes common data requirements to show cost	-affactivanass: soma nr	ojecto may require addi	tional information
to demonstrate a benefit-cost ratio over 1.0. The technical jo			
resources.			ultonal
FEMA BCA Tool: Historical or Professional Expecte			
BCA Narrative	Recommended		_
Annual maintenance cost	✓		-
Project useful life	✓		
Documented Historical or Estimated Damages	✓		
Estimated recurrence intervals for one or more damage event,	\checkmark		
or at least 3 historical damage events from different years			
For historical damages, year property was built	✓		
Documentation of proposed level of protection	✓		1
Basis for determining the loss of function to the infrastructure	Include if applicable		
benefitting from the project			_
Export of the BCA tool, PDF of the BCA Report from the toolkit,	\checkmark		
and supporting documentation			
FEMA BCA Tool: Modeled Damages			-
BCA Narrative	Recommended		
Annual maintenance cost	\checkmark		
Project useful life			
Structure information: lowest floor elevation, building type, and building size	~		I
Flood hazard data	✓		
Export of the BCA tool, PDF of the BCA Report from the toolkit,			
and supporting documentation	v		
Additional EHP Documentation: Needs vary based	on potential impacts	s considerations inc	lude:
Description of ground disturbance activities and extent	\checkmark		
Description of public outreach that has occurred.		✓	
Description of any federal, state, or local agency coordination,		\checkmark]
and permitting]
Provide any environmental and/or cultural studies that have		\checkmark	
been conducted in the area			4
Is the project in a known floodplain?	lf yes, additional		D
Are there nearby surface waters or wetlands?	documentation and		_
Are their known hazardous or contaminated materials at the	discussion of impacts		
project site?	and potential		
Does the project involve the use of imported fill?	mitigation measures will be required		
Will the project remove vegetation?	will be required		4
List any best management practices that will be used during construction	\checkmark		
Other Required Documents	1		
Fund commitment letters	√		4
Applicable signed SF-424 forms and Assurances	\checkmark		J
Designated authorized agent documentation	✓		1
	Ý		

Notes:

 $^{\rm 1}$ Eligibility: Items that must be included in the grant application to fully evaluate eligibility.

² Pre-Award: Information that FEMA will need to review prior to award.