

FEMA Grant Opportunities for Floodplain Mapping

Floodplain Mapping Grant Opportunities

- The Map Modernization Program (2004-2009)
- Risk MAP

FEMA Floodplain Mapping Grant Opportunities

The FEMA Map Modernization Program
(2004-2009)

- Purpose
- Goals
- Funding

FEMA Map Modernization Program

Purpose

- 5 year FEMA program to convert existing paper Flood Insurance Rate Maps (FIRMs) to Digital Flood Insurance Rate Maps (DFIRMs)
- Mid-course adjustment added new studies (detailed, limited, and approximate) into DFIRM conversion projects on a limited basis – depending on funding availability.

FEMA Map Modernization Program

Goals

- 92% of population have digital flood maps
- 75% mapped stream miles meet Floodplain Boundary Standards
- 30% mapped stream miles have new or updated engineering analysis

Map Modernization Program

Funding

- Funding earmarked for new flood studies - very limited.
 - *FEMA Region VIII – focus is on digital conversion (limited detailed or approximate analysis with some detailed analysis).*
- National mapping needs determined overall funding priorities.
 - *Montana ranked low (risk, population) ...was not a high priority for funding. Montana did receive funding for multiple projects each year.*
- Federal funding provided through a cooperative agreement with the partners
 - *In Montana the DNRC was the main CTP.*

Status of MT Map Mod Projects

(Scoped for potential DFIRM)

- Broadwater
- Jefferson
- Lake
- Mineral
- Powell
- Sanders

Ongoing (In Progress)

- Carbon
- Cascade
- Custer
- Fergus
- Flathead (Evergreen Area)
- Gallatin
- Lewis & Clark
- Missoula
- Park
- Yellowstone
- Ravalli
- Silver-Bow

Completed Montana Map Modernization Projects

- Blaine County
- Chinook, Town of
- Harlem, Town of
- Flathead County
- Kalispell, City of
- Whitefish, City of
- Fort Belknap Indian Reservation
- Fort Peck Indian Reservation
- Jefferson County, only
- Whitehall, City of
- Lincoln County
- Libby, City of
- McCone County (partial)
- Richland County (partial county,)
- Roosevelt County (partial county)
- Brockton, City of
- Culbertson, City of
- Poplar, City of
- Sheridan County, only
- Medicine Lake, City of
- Valley County, only Nashua, Town of

FEMA Risk MAP program Overview

- Vision
- Goals
- Objectives
- Funding



FEMA Risk MAP

Vision

Through collaboration with State, local and Tribal entities, Risk MAP will deliver **quality data** that increases **public awareness** and leads to **action** that reduces risk to life and property.



FEMA Risk MAP Program Goals: Flood Hazard Data

- **Goal 1:**

Address gaps in flood hazard data to form a solid foundation for risk assessment, floodplain management and actuarial soundness of the National Flood Insurance Program.

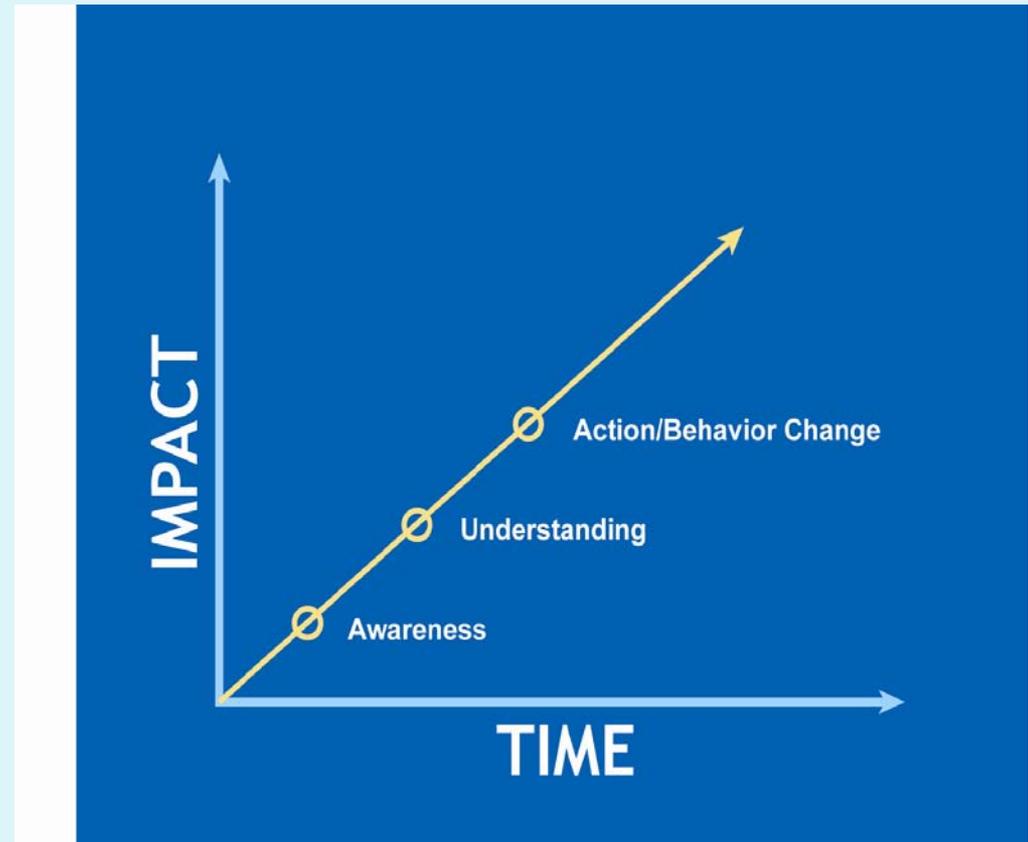


FEMA Risk MAP Program Goals:

Increase Public Awareness

- **Goal 2:**

Ensure that a **measurable** increase of the **public's awareness and understanding of risk** results in a **measurable reduction** of current and future vulnerability.

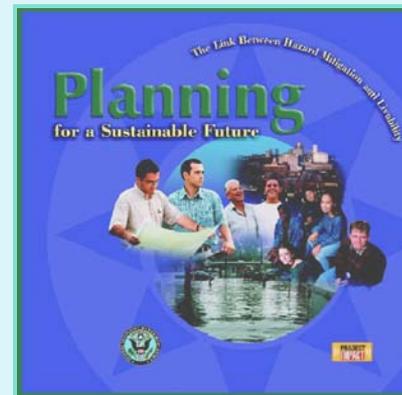
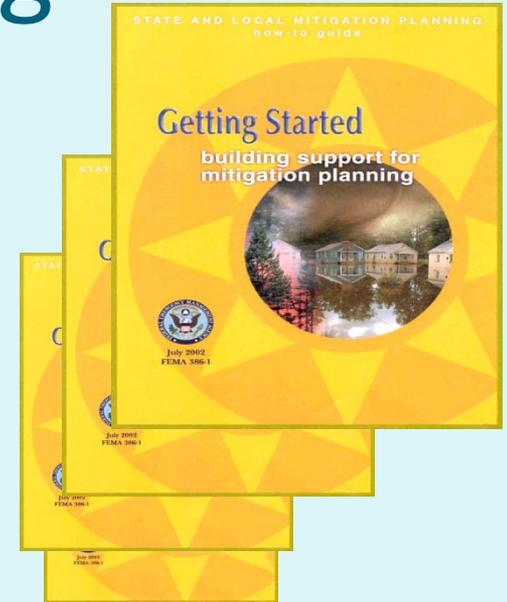


FEMA Risk MAP Program Goals:

Hazard Mitigation Planning

- **Goal 3:**

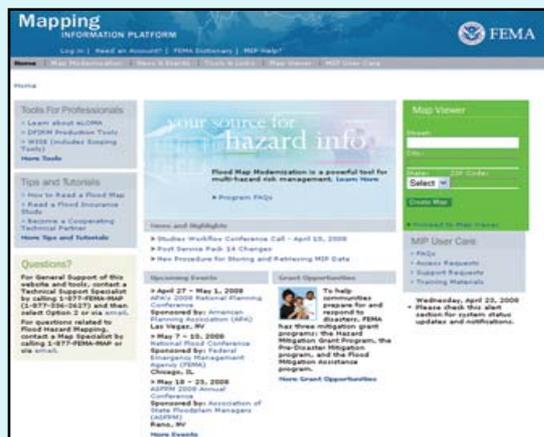
Lead and support States, local, and Tribal communities to effectively **engage in risk-based mitigation planning** resulting in **sustainable actions** that **reduce or eliminate risks** to life and property from natural hazards.



FEMA Risk MAP Program Goals:

Enhanced Digital Platform

- Goal 4:** Provide an **enhanced digital platform** that improves management of Risk MAP, stewards information produced by Risk MAP, and **improves communication and sharing of risk data and related products to all levels of government and the public.**



Mapping Information Platform
<https://hazards.fema.gov>



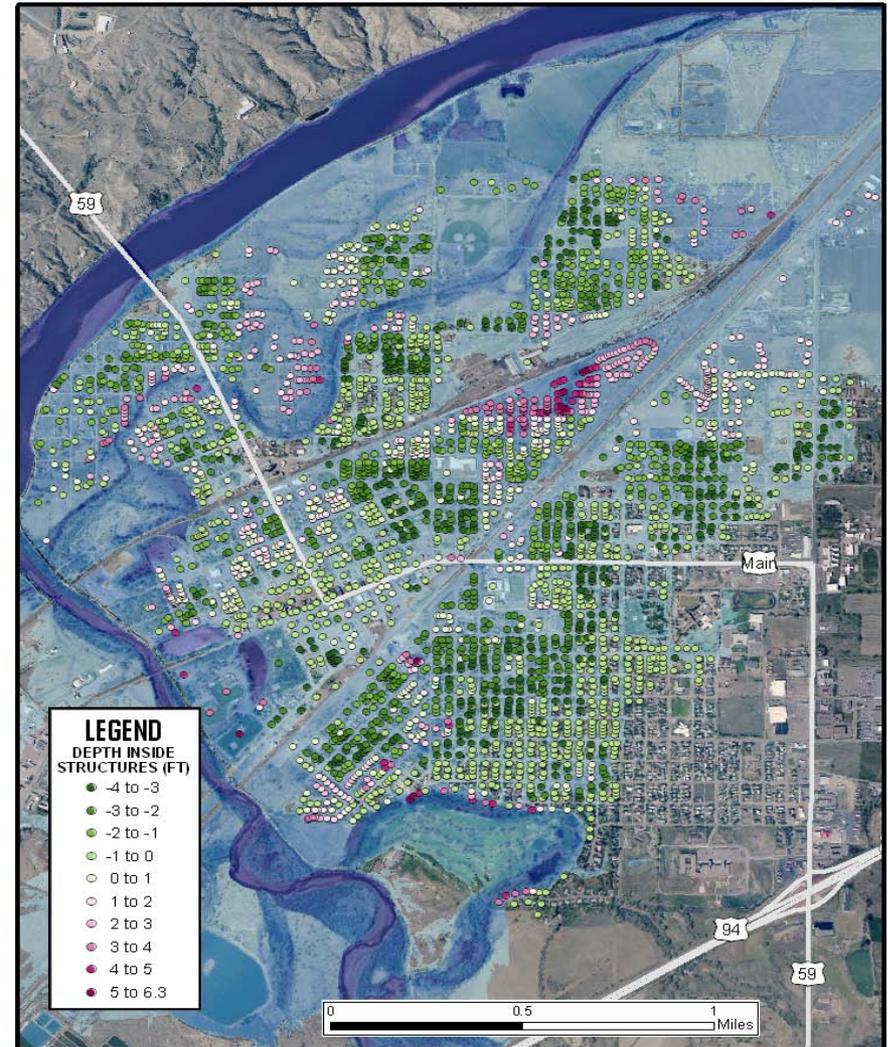
The NFHL enables users to visualize FEMA flood information in a digital environment, including stream cross-sections and base flood elevations. The images above show flood hazard areas (in red) overlaid on two- and three-dimensional scenes in Google Earth™ of Pittsburgh.

FEMA Risk MAP Program Goals: Alignment and Synergies

- **Goal 5:**
Align Risk Analysis programs and develop synergies to enhance decision making capabilities through effective risk communication and management.



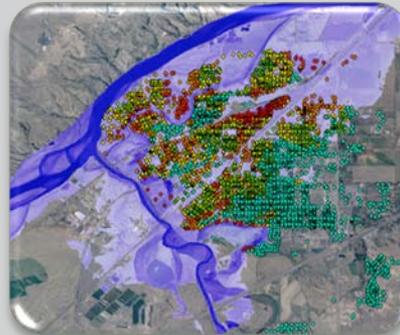
Flood Loss Analysis for Miles City, Montana



FEMA Risk MAP Program Objectives

- Assess the Nation's flood risk and use this information to increase public awareness of risk. We will use a consistent, quantitative flood risk assessment to track progress toward reducing flood risk to target resources.
- Increase public awareness of risk from natural hazards and establish a baseline of local knowledge and understanding of risk management concepts.
- Ensure 80 percent of Nation's flood hazards are current—the flood hazard data are new, have been updated or deemed still valid.
- Continue to meet statutory requirements of NFIP through assessing on a watershed basis, the need to revise and update all floodplain areas and flood risk zones identified, delineated or established.

FEMA Risk MAP Program Objectives



**Identify
Risk**

**Assess
Risk**

**Communicate
Risk**

**Mitigate
Risk**

FEMA Risk MAP Program

Funding Focus

- **LEVEES:** FEMA will fund the review and update of DFIRMs to ensure the flood hazards and risk premium zones associated with levees are accurate. Funding will also be used to assist in the identification of levees and to promote levee safety.
- **COASTAL:** FEMA will allocate funds to perform updated large-scale storm-surge modeling for areas determined to be in the most need of coastal flood hazard mapping information.

FEMA Risk MAP Program

Funding Focus Continued...

- **RIVERINE:** FEMA will fund flood map update projects for riverine flood hazard areas. This funding relies on demonstrating physical, climatological, or methodological changes between the techniques used for the existing map and the current FEMA guidance and specifications for creating new flood hazard data
 - Stream miles
 - Population affected
 - Development pressure
 - Recent events – high flood risk

FEMA Risk MAP Program

Funding Process

- In Fall 2009 the MT DNRC Risk MAP business plan is updated and submitted to FEMA.
 - Prior to this submittal the top priorities (community projects) for Risk MAP funding in the State of Montana are identified and compiled in a list that is included in the MT DNRC business plan.
- In spring 2010 FEMA will notify MT DNRC regarding it's anticipated funding for new projects. FEMA will request that DNRC draft **Mapping Activity Statements (MAS) – Grant applications** for 1-? projects out of Montana's top priority list.

FEMA Risk MAP Program

Funding Process Continued

- **In spring 2010 MT DNRC submits MAS's (grant applications) for proposed projects to FEMA via grants.gov for approval.**
- **In summer/fall 2010 FEMA completes their review of grant applications received and makes awards.**

FEMA Risk MAP Program

Important Funding & Grant FAQ's

- There are **10 FEMA regions** that compete for funding out of the total allocated by congress for the Risk MAP program.
- **Montana falls under FEMA Region VIII (8) & competes with South Dakota, North Dakota, Wyoming, Utah, and Colorado for the funding that FEMA Region VIII receives.**
- **In 2009 (the final year of Map Modernization) Montana received 20% of FEMA Region VIII's funding → for a total of \$1,240,000**
- **The FEMA grant application process is complex . Grant applications require a lot of research and time to complete. A typical Mapping Activity Statements (MAS) – FEMA ranges from 45-150 pages & takes at least a month to prepare.**

Questions?

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