Wildfire Mitigation Grant Opportunities

Overview

Wildfires can kill people, ruin homes and communities and cause environmental damage in forests, grasslands and the wildland urban interface. The destruction caused by wildfires also increases flood risks in burned areas for years. Wildfire risks increase in periods with little rain and high winds and can strike in any month of the year. FEMA’s mitigation grant programs seek to reduce wildfire risks to people, the environment, infrastructure and communities.

Available Grant Programs

- **Hazard Mitigation Grant Program (HMGP)** provides funding to state, local, tribal and territorial governments so after a presidentially declared disaster so they can rebuild in a way that reduces or mitigates future disaster losses in their community.
- **Hazard Mitigation Grant Program Post Fire (HMGP-PF) assistance** is available to help communities implement hazard mitigation measures after wildfire disasters.
- **Building Resilient Infrastructures and Communities (BRIC) grant program** funds pre-disaster mitigation activities. BRIC is a new FEMA mitigation program that replaces the Pre-Disaster Mitigation (PDM) program.

Eligible Wildfire Mitigation Projects

<table>
<thead>
<tr>
<th>Mitigation Projects</th>
<th>Program</th>
<th>Complexity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>HMGP</td>
<td>HMGP PF</td>
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<tr>
<td>Post-Fire Mitigation Projects</td>
<td></td>
<td></td>
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<tr>
<td>Erosion Control and Watershed Protection – WF1</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Erosion Control</td>
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<tr>
<td>Slope Stabilization</td>
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<tr>
<td>Debris Mitigation and Basins</td>
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<td>Culvert Upgrades</td>
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<tr>
<td>Infrastructure and Utility Protection</td>
<td>✓</td>
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<tr>
<td>Sediment Traps or Check Dams</td>
<td>✓</td>
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<tr>
<td>Wildfire Mitigation Projects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition Resistant Construction Retrofits - Residential</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>- WF2</td>
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<tr>
<td>Ignition Resistant Construction Retrofits – Infrastructure</td>
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<tr>
<td>- WF3</td>
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<tr>
<td>Defensible Space – WF4</td>
<td>✓</td>
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<tr>
<td>Fuels Reduction – General – WF5</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Including private property</td>
<td>✓</td>
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<tr>
<td>Wildfire and Post Wildfire (flood) Warning systems – WF6</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Non-Construction Activities</td>
<td></td>
<td></td>
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<tr>
<td>Building Code Improvements – WF7</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Hazard Mitigation Planning (wildfire) – WF8</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Advance Assistance (project dev.) – WF9</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
**Complexity Ratings**

The application complexity ratings are subjective and based on the average time and resources required to complete mitigation applications combined with the impacts of a given mitigation activity. These complexity ratings are meant as a guide and are not definite regulatory thresholds. The intent is to provide an understanding of the commitment of time and resources necessary to apply, receive funding for, and implement a mitigation action.

<table>
<thead>
<tr>
<th>Application Complexity</th>
</tr>
</thead>
<tbody>
<tr>
<td>The application complexity ratings are subjective and based on the average time required to complete the application as well as the number of supporting elements that may be necessary for proper documentation of the scope of work, budget, benefit cost and/or technical performance.</td>
</tr>
</tbody>
</table>

*Low Complexity:* Mitigation actions that do not require a benefit costs analysis or specific detailed design documents.

*Medium Complexity:* Mitigation actions that require straightforward benefit cost analysis with readily available documentation to support the scope of work, budget, schedule and risk reduction components.

*High Complexity:* Mitigation actions that are technically complex requiring multiple source documents to support the benefit cost analysis, scope of work, budget, and/or schedule. Also, residential projects with multiple private property owners participating require greater documentation and oversight from application to implementation.

<table>
<thead>
<tr>
<th>Environmental Complexity</th>
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<tbody>
<tr>
<td>Environmental and historic preservation complexity is based on the number and extent of the consultations with other Federal agencies required for FEMA to evaluate and clear a specific proposal. These complexity estimates are based on historical averages and small differences in proposals can necessitate different levels of review and consultation.</td>
</tr>
</tbody>
</table>

*Low Complexity:* Mitigation actions with no external consultation requirements.

*Medium Complexity:* Mitigation actions with minimum one consultation required (USACE/SHPO/USFWS/NMFS) and no Adverse Effect (NHPA) or Likely to Adversely Affect (ESA)

*High Complexity:* Mitigation actions with two or more consultations required (USACE/SHPO/USFWS/NMFS) and/or one Likely to Adversely Affect Determination for ESA and/or One Adverse Effect Determination for NHPA

<table>
<thead>
<tr>
<th>Legal Complexity</th>
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<tbody>
<tr>
<td>Legal complexity is primarily based on the potential for litigation, property ownership issues and impacts to popular natural resources. The more impacts to natural resources or unresolved issues a project has the greater the legal complexity.</td>
</tr>
</tbody>
</table>

*Low Complexity:* Mitigation actions with limited third-party interest, mitigation actions with no impact to natural resources, ADA or other laws that have citizen suit provisions

*Medium Complexity:* Mitigation actions with more than one viable alternative, mitigation actions that impact popular natural resources with complex regulations, or mitigation actions limited property ownership issues that can be resolved prior to approval.

*High Complexity:* Mitigation actions subject to ongoing or potential litigation, mitigation actions with impacts to resources that may require an Environmental Impact Statement, mitigation actions with unresolved property ownership issues, mitigation actions with controversial impacts to natural resources, or mitigation actions with untested methodologies.
FEMA Mitigation Opportunities
Erosion Control and Watershed Protection

Overview

Post-fire mitigation funding opportunities are available to states, local and tribal governments, for the mitigation of wildfire or impacts of wildfire on publicly or privately owned forests or grasslands, which could lead to increased or new damage in the burned area. Funding of these programs are made available from the Federal Emergency Management Agency (FEMA) through the state emergency management agency.

Eligible Projects

- Surface erosion control actions necessary to reduce potential threats to structures or facilities (note: this might not be considered an emergency action if there is time to consult with necessary resource agencies prior to initiating the action, e.g. hydro seeding cannot happen until early spring.)
- Slope stabilization (Ground disturbance activities have higher environmental compliance)
- Actions to reduce risk of mass failures or risk to debris flows.
- Debris basins to hold debris flows due to fir (Ground disturbance activities have higher environmental compliance)
- Upgrades to existing culverts to reduce any threat of road failing due to plugged culvert
- Repairs or stabilization of roads or other facilities in danger of failure
- Installation of gabions, ecology blocks, K railing and other erosion control measures used to protect at risk structures or facilities
- Installation of sediment traps or check dams at high risk areas when threat exists

Overall Complexity

<table>
<thead>
<tr>
<th>Project</th>
<th>Application</th>
<th>Environmental</th>
<th>Legal</th>
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</thead>
<tbody>
<tr>
<td>Erosion Control</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>Slope Stabilization</td>
<td>Low</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>Debris Mitigation and Basins</td>
<td>Medium</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>Culvert Upgrades</td>
<td>Low</td>
<td>Medium</td>
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<tr>
<td>Infrastructure and Utility Protection</td>
<td>Low</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>Sediment Traps or Check Dams</td>
<td>Low</td>
<td>Medium</td>
<td>Medium</td>
</tr>
</tbody>
</table>

Fire Mitigation Examples
Application Requirements:

- Must be a local government, Tribe, or PNP
- Must have a FEMA approved Local Hazard Mitigation Plan
- Must fulfill appropriate state emergency management agency application requirements including, scope of work, budget, schedule, etc.
- Long-term benefits must outweigh costs (BCR > 1)
  - *Projects that cost less than or equal to $5,200 per acre of benefit are automatically cost effective. No benefit-cost analysis is required.*
  - Projects with costs greater than $5,200 per acre of benefit must submit a documented benefit-cost analysis
- 25% local match required
- Projects affecting private property must have property owner permission
- Funding limits set by the state emergency management agency
- **No construction prior to FEMA/State approval**

Environmental Requirements:

This depends on the action, the resources affected, and the applicable environmental and historic preservation (EHP) laws. Therefore, engagement with the FEMA EHP is required on a project specific basis. Compliance requirements and consultation timelines with resource agencies differ, however some timeframes associated with the review of an emergency action are truncated and EHP will conduct the compliance review process as expeditiously as possible. For example, under the Clean Water Act, the US Army Corps of Engineers (USACE) has emergency provisions which FEMA may be able to utilize to avoid duplicative compliance reviews. This can be achieved due to a Memorandum of Understanding and other programmatic agreements between FEMA and other resource agencies.

If emergency consultation is deemed necessary, FEMA EHP will contact the relevant resource agencies and provide them as much information as possible regarding the proposed action, design elements, mitigation measures, public risk, and other relevant information.
Overview
During a wildfire, combustible exterior components such as roof coverings, siding, and decks can ignite, leading to severe damage to or total loss of the building. The use of noncombustible or fire-resistant materials for exterior components and the creation of a defensible space can increase a building’s chance of surviving. Figure 1 shows the building’s envelope or exterior components that can be mitigated.

FEMA recommends that State and local codes include requirements for wildfire mitigation for both new construction and upgrades to existing buildings in wildfire zones.

Eligible Projects
- **Roof**  Installation of Class A roofing products such as: asphalt shingles, metal / stone coated metal, concrete (standard weight and lightweight), clay tile, synthetic, slate or hybrid composite.
- **Siding**  Encasing building with ignition resistant siding such as rock wall, stucco or cement board.
- **Exterior Doors**  Installation of door made from non combustible products such as metal or composites or solid core construction. Installing sliding glass doors or decorative front doors with glass panels made of tempered glass that are designed to withstand impact.
- **Windows**  Installation of dual pane windows. An aluminum sub frame should be installed to help the window frame retain its shape when exposed to increased heat.
- **Gutters**  Installation of metal gutters. Gutter caps can be installed to prevent accumulation of foreign combustible debris.
- **Vents**  Install metal vents and vent flashing. Metal mesh screens should be corrosive resistant. Vent openings should have a maximum net free area of 144 square inches.
- **Decks**  Replacing flammable materials with heavy timber or noncombustible materials. A minimum 6 inch × 6 inch timber or concrete block or steel should be used for columns. For floor joists and beams, heavy timber, 3 inch to 4 inch nominal thickness fire retardant treated wood, or concrete block or steel framing should be used. For railings, use minimum 3 inch nominal thickness fire retardant treated wood or metal, cables, or tempered glass. For decking and stair treads, use exterior fire retardant treated wood, minimum 3 inch nominal thickness, or brick or concrete pavers and a suitable drainage mat over wood decking or metal grates. Light, poured concrete may also be a suitable deck covering.
- **Eaves**  Cover with 1/8” maximum mesh to prevent embers from entering.
- **Fuel tanks**  Protection of propane tanks or other external fuel sources.
- **External water hydration and thermal insulation systems**  Purchase and installation of external, structure specific water hydration and thermal insulation systems with a dedicated delivery system and dedicated self contained foam or retardant in sufficient volume to protect the structure.
- **Paint**  Fire resistant primers and paint.
Overall Complexity

<table>
<thead>
<tr>
<th>Application</th>
<th>Environmental</th>
<th>Legal</th>
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</thead>
<tbody>
<tr>
<td>High</td>
<td>Medium</td>
<td>Medium</td>
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</table>

Application Requirements:

- Must be a local government, Tribe, or PNP
- Must have a FEMA approved Local Hazard Mitigation Plan
- Must fulfill appropriate state emergency management agency application requirements including, scope of work, budget, schedule, etc.
- Long-term benefits must outweigh costs (BCR > 1)
- 25% local match required
- Application should include property level detail for activities including address of property, associated construction activities, and documentation of voluntary participation
- Each residential structure must have documentation that the property owner has previously created defensible space and agrees to maintain defensible space
- Projects involving reimbursement payments to homeowners must include details of the reimbursement process
- Funding limits are set by the state emergency management agency
- **No construction is allowed prior to FEMA/State approval**

Environmental Requirements:

Depending on the specific elements of each structure to be retrofitted, and if combined with additional fire mitigation activities such as the creation of defensible space, the applicable environmental and historic preservation (EHP) laws can differ. Given this, engagement with FEMA EHP is required on a project specific basis. FEMA EHP has streamlined consultation tools in place with partner agencies, such as the State Historic Preservation Office for compliance with Section 106 of the National Historic Preservation Act, that may aid in a faster EHP compliance review and project clearance.

Basic EHP requirements for this project type (for each structure):

- Location (address, coordinates)
- Age of construction
- Specific scope of the proposed retrofit work for the structure
- At least five photos (each side and another of the structure with surroundings)
- If the structure is within a special flood hazard area
Inadequate infrastructure can hamper fire-suppression efforts and put citizens and firefighters at risk. Reducing the risk of wildfire damage and destruction requires implementing measures beyond those involving an individual building or parcel. It is also essential to enhance mitigation measures at the neighborhood and community levels, which will effectively expand the zone of protection beyond the individual parcel or building.

FEMA’s Hazard Mitigation Assistance (HMA) has funding available to implement measures that can be taken on a community-wide basis to increase the chances of an entire neighborhood’s survival in a wildfire.

**Eligible Activities**

- Undergrounding existing utility and equipment connections, including all entry points into the building.
- Sealing gaps and penetrations in exterior walls and roofs with fire resistant caulk, mortar, or fire rated expanding foam. Filling large gaps with intumescent or fire protective sheets or pillows. Fire resistant wrap may be used around ventilation features that are built into and penetrate exterior walls (such as air conditioners).
- Shielding power cables and other wiring with noncombustible or fire resistant materials to protect the cables and wiring from convection, radiation, and conduction heat, and direct flame contact.
- Use noncombustible or fire resistant materials for mounting systems of roof mounted equipment.
- Shielding power cables and other wiring with noncombustible or fire resistant materials to protect the cables and wiring from convection, radiation, and conduction heat, and direct flame contact.
- Burying or shielding fuel lines to protect them from radiation, conduction heat, and direct flame contact.
- Burying pressurized storage vessels underground
- Shielding gas meters from hot air and gases, convection and radiant heat, and direct contact by flame, using noncombustible materials such as masonry or concrete.
- Ensuring pressurized storage tanks have a pressure relief valve. As the outside temperature rises in a wildfire, the pressure inside the tank can increase. When the pressure setting is exceeded, the valve will open and relieve the pressure, preventing an explosion.
- Replacing water tanks made with flammable material with non flammable water tanks
- Replacing flammable wooden utility poles with non flammable steel or concrete
- Replacing water systems that have been burned and caused contamination
**Overall Complexity**

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<thead>
<tr>
<th>Application</th>
<th>Environmental</th>
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<tr>
<td>Medium</td>
<td>Medium</td>
<td>Low</td>
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</table>

**Application Requirements:**
- Must be a local government, Tribe, or PNP
  - Can be in partnership with utility companies
- Must have a FEMA approved Local Hazard Mitigation Plan
- Must fulfill appropriate state emergency management agency application requirements including, scope of work, budget, schedule, etc.
- Long-term benefits must outweigh costs (BCR > 1)
- 25% local match required
- Application should include detail for all activities including exact location and associated construction activities
- Structures involved in Ignition Resistant Construction must have documented appropriate defensible space and commit to maintaining defensible space.
- Funding limits are set by the state emergency management agency
- **No construction is allowed prior to FEMA/State approval**

**Environmental Requirements:**
Depending on the specific elements of each structure to be retrofitted, and if combined with additional fire mitigation activities such as the creation of defensible space, the applicable environmental and historic preservation (EHP) laws can differ. Given this, engagement with FEMA EHP is required on a project specific basis. FEMA EHP has streamlined consultation tools in place with partner agencies, such as the State Historic Preservation Office for compliance with Section 106 of the National Historic Preservation Act, that may aid in a faster EHP compliance review and project clearance.

Basic EHP requirements for this project type (for each structure):
- Location (address, coordinates) of proposed work
- Age of construction for any existing structure to be retrofitted
- Specific scope of the proposed retrofit work on existing structures or any necessary ground disturbance for underground activities
- At least five photos (each side and another of the structure with surroundings) for any projects involving existing structures
- If the structure is within a special flood hazard area
Overview

A defensible space is an area around a building in which vegetation, debris, and other types of combustible fuels have been treated, cleared, or reduced to slow the spread of fire to and from the building. See illustration below. Information about local vegetation, weather, and topography is used to determine the Fire Severity Zone of an area, which can help determine the most effective design of a defensible space. It is one of the most cost-effective ways to protect a building from a wildfire and can often be created by the property owner.

Defensible space projects for residential structures, commercial buildings, public facilities, and infrastructure must be implemented in conformance with local code requirements for defensible space.

Eligible Activities

- Replacing flammable vegetation with fire resistant vegetation by selective removal of flammable species and/or planting and seeding of fire resistant species
- Removal of down, dead, or dry vegetation
- Cutting and clearing of shrubs and brush.
- Pruning trees generally up to 15 feet aboveground
- Removing or trimming tree limbs overhanging roof and chimney
- Cleaning all needles and leaves from roofs, eaves, and rain gutters
- Thinning shrubs or trees so crowns do not intersect and there is space between individual shrubs and trees
- Conducting outreach to educate homeowners on defensible space and solicit participation in project
- Inspections by fire officials to confirm that defensible space has been completed adequately
Overall Complexity

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</table>

Application Requirements:

- Must be a local government, Tribe, or PNP
- Must have a FEMA approved Local Hazard Mitigation Plan
- Must fulfill appropriate state emergency management agency application requirements including, scope of work, budget, schedule, etc.
- Long-term benefits must outweigh costs (BCR > 1)
- 25% local match required
- Application should include property level detail for activities including address of property, associated defensible space activities, and documentation of homeowner’s voluntary participation
- Projects involving reimbursement payments to homeowners must include details of the reimbursement process
- Application should include means by which activities will take place (i.e., will contractors, homeowners, or local jurisdiction staff complete the work?)
- Funding limits are set by the state emergency management agency
- **No construction or project activities allowed prior to FEMA/State approval**

Environmental Requirements:

Depending on the specific location and methods the applicable environmental and historic preservation (EHP) laws can differ. Given this, engagement with FEMA EHP is required on a project specific basis. FEMA EHP has streamlined consultation tools in place with partner agencies, such as the State Historic Preservation Office and the US Fish and Wildlife Service, that may aid in a faster EHP compliance review and project clearance.

Basic EHP requirements for this project type:

- Location of each structure (address, coordinates)
- Proposed methods for vegetation reduction
- For trees that will be cut or removed, provide the maximum trunk circumference and description of removal method (Will root ball be removed? Will tree be chained/drag dragged?)
- Description of any ground disturbance
- Planned disposal methods for the cut vegetation (Will materials be chipped and broadcast? Hauled to a licensed landfill?)
- Proposed methods to avoid impacts to threatened and endangered plants or animals
- Photographs of the vegetation in the general area
FEMA Mitigation Funding Opportunity
Hazardous Fuel Reduction

Overview

The execution of fuel reduction projects as a wildfire mitigation measure has been proven effective in lessening wildfire hazards and threat to human safety and damage to property. The objective is to remove enough vegetation (fuel) so that when a wildfire burns, it is less severe and can be more easily managed. These projects are implemented at the community level and extend beyond defensible space perimeters.

FEMA will consider funding hazardous fuel reduction projects if they are within two miles of homes and other structures that meet or exceed applicable fire-related codes and standards and the risk reduction for the target community or buildings is demonstrated.

Eligible Projects

- **Pruning**  Removing the lower (live and dead) limbs of a tree, reduces ladder fuels. This is frequently done alongside roads, thus increasing the effectiveness of the road as an existing fuel break.
- **Utility Vegetation management**  Using herbicides to kill unwanted vegetation, brush removal around powerlines and directional pruning. It takes both structural integrity and the health of the tree into consideration. This method guides tree branches away from powerlines and reduces internal decay.
- **Removal of understory**  Removing shrubs and plants growing beneath the main canopy of a forest.
- **Biomass Removal**  Including clearing straw, removing dead or dry vegetation, thinning, and removal of blown down timber from wind throw, ice or a combination.
- **Biomass burning**  Including gathering vegetation into a pile for burning.
- **Felling of Hazardous Trees**  Including removal of standing burned trees
- **Mechanical Treatments**  Including disking, mulching, mowing, chopping and removal of such material; Material left onsite must meet appropriate depth practices in accordance with applicable codes and best practices.
- **Other industry Techniques**  Must be approved by FEMA

Overall Complexity

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<tr>
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<tr>
<td>Medium</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Including Private Property</td>
<td>High</td>
<td>Medium</td>
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</tbody>
</table>
Application Requirements:

- Must be a local government, Tribe, or PNP
- Must have a FEMA approved Local Hazard Mitigation Plan
- Must fulfill appropriate state emergency management agency application requirements including, scope of work, budget, schedule, etc.
- Long-term benefits must outweigh costs (BCR > 1)
- 25% local match required
- Applications must specifically identify project location (e.g., “publicly owned land within the county” is not an acceptable project location) and include documentation that project area takes place within two miles of eligible structures
- Applications must include detail on what species will be removed and method of removal (chemical, mechanical, by hand, etc.)
- Applications involving private property must include property level detail for activities including address of property, and documentation of voluntary participation by property owner
- Applicants must ensure that Duplication of Program (DOP) between Federal agencies will not occur, particularly if project is near federal land. Applicants should contact local USDA or DOI offices to determine potential DOP.
- Funding limits are set by the state emergency management agency
- **No construction is allowed prior to FEMA/State approval**

Environmental Requirements:

Depending on the specific location and methods the applicable environmental and historic preservation (EHP) laws can differ. Given this, engagement with FEMA EHP is required on a project specific basis. FEMA EHP has streamlined consultation tools in place with partner agencies, such as the State Historic Preservation Office and the US Fish and Wildlife Service, that may aid in a faster EHP compliance review and project clearance.

Basic EHP requirements for this project type:

- Project location boundaries and any staging areas (coordinates)
- Photographs and description of the vegetation in the project area
- Proposed methods for vegetation reduction and equipment to be used (What is the depth of ground disturbance? Will any of the vehicles be tracked?)
- For trees, provide the maximum trunk circumference and description of removal method (Will the root ball be removed? Will the tree be chain dragged?)
- Planned disposal methods for the cut vegetation (Will materials be chipped and broadcast? Hauled to a licensed landfill?)
- Proposed methods to avoid impacts to threatened and endangered plants or animals
- Location and proximity to any rivers, creeks, streams, or wetland areas
Overview

Following a wildfire, burned soil can chemically change and become water repellant which can lead to flash floods and mudflow. In wildfire-affected areas such as Southern California, flash floods have occurred within minutes with as little as 0.3 inches of rainfall. These powerful flash floods create debris flows which can quickly destroy roads, bridges and buildings.

To address this risk, up to five percent of Hazard Mitigation Grant Program (HMGP) and HMGP Post-Fire funding may be available for early warning systems. Eligible warning systems include those that monitor surface water movement and alert citizens of possible post-fire flash floods and debris flows as well as those that monitor for potential fire starts and provide notification to appropriate authorities.

All methods of alert and notification have advantages and disadvantages related to cost, population coverage, response time, the extent of public awareness, and awareness education. Considerations include the ability to operate with commercial utility power supply, from back-up power alone (e.g., batteries or emergency generator) when the commercial power grid is unavailable, in the absence of telephone line service when disconnected, and the manpower required to keep the system operating.

Overall Complexity

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<td></td>
<td>Low</td>
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</table>
Advantages of Warning Systems

- Help reduce damages and loss of life through early detection of potential hazard impacts
- Upon receipt of warning, citizens can initiate response activities designed to protect their lives and property

<table>
<thead>
<tr>
<th>Types of Warning Systems</th>
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<tbody>
<tr>
<td>Sirens</td>
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<tr>
<td>Stream gauges</td>
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<td>Reverse 911</td>
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<tr>
<td>Cellular notification systems,</td>
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<tr>
<td>Fire detection cameras</td>
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</tbody>
</table>

Application Requirements:

- Must be a local government, Tribe, or PNP
- Must have a FEMA approved Local Hazard Mitigation Plan
- Must fulfill appropriate state emergency management agency application requirements including, scope of work, budget, schedule, etc.
- Must include narrative discussion of the benefits of the project (no formal benefit-cost analysis is required)
- Must include plan for how the public will be informed and educated about warnings and messaging
- 25% local match required
- Funding limits set by the state emergency management agency

Environmental Requirements:

Depending on the project scope, applicable environmental and historic preservation (EHP) laws can differ. FEMA EHP has streamlined consultation tools in place with partner agencies that may aid in a faster EHP compliance review and project clearance. Basic EHP requirements:

- Specific scope of work, including access route, staging area, and details of any ground disturbance for trenching, installation, or vegetation clearance
- Proposed locations (including coordinates) and physically where equipment will be mounted (e.g. existing tower, existing water tank, etc.)
- Structure age of construction (if being mounted on a structure such as a building)
- Any proposed Best Management Practices to avoid disturbing nesting birds

FEMA Region IX

September 2020
FEMA Mitigation Funding Opportunity
Building Codes Improvements

Overview
Building codes specify the minimum legal design and construction requirements for a given jurisdiction. Structural integrity, construction materials and fire protection are taken into consideration to safeguard the occupants of a building, and to protect the building’s structure. The International Code Council (ICC) develops codes in collaboration with Federal Emergency Management Agency (FEMA) and other Federal, states, local and private authorities.

Adhering to the codes not only aides in protecting life and property but also increases disaster resilience. This allows individuals and families to rapidly recover, following a disaster, with minimal costs and enable the continuation of operations and essentials services.

With wildfires as a major threat to Western states, it’s important that building and fire codes are in place and adhered to, to ensure the sustainability of residential and commercial structures. Funding opportunities are available to states, local and tribal governments, for code implementation and is made available from the Federal Emergency Management Agency (FEMA) through the state emergency management agency.

Eligible Activities

- **Evaluate adoption and/or implementation of codes that reduce risk:**
  - Evaluate which code adoption and enforcement activities are best suited for the jurisdiction
  - Adopt building codes or develop building code requirements, including publication of those requirements related to land use, zoning, floodplain management, infrastructure, urban wildland defensible space, or other area, that help make the community more resilient.

- **Enhance existing adopted codes to incorporate more current requirements or higher standards**
  - Improve or modify current or existing building code requirements to reflect the latest code edition, exceed the latest code edition, or develop or modify building code coordinated requirements, including publication of those requirements, related to land use, zoning, floodplain management, infrastructure, urban wildland defensible space, or other area, that help make the community more resilient.
  - Enhance existing adopted codes and enforcement to incorporate more current requirements, higher standards, electronic permitting, online model code access, virtual inspection technology, and remote building codes administration

- **Develop professional workforce capabilities through technical assistance and training**
  - Provide or pursue training, including individual certification courses (inspector, plans reviewer, certified floodplain manager, etc.) and training for both the public and private sectors
  - Develop planning, training, and exercises for post disaster building code enforcement through the ICC’s When Disaster Strikes Institute training course
Eligible Activities Continued

- **Post Disaster Code enforcement**
  - Develop activities related to improving code enforcement (evaluate processes, implement an inspection program, improve Building Code Effectiveness Grading Schedule (BCEGS) score, improve Community Rating System (CRS) rating, etc.)
  - Develop or acquire software and hardware, and associated training, to assist with plan reviews, permitting, inspections, and records retention
  - Purchase publications, or obtain digital license or printing permissions of publications to support building code activities
  - Engage consulting services to support activities related to building codes
  - Cover costs associated with building department accreditation
  - Conduct public awareness outreach activities related to new requirements

### Overall Complexity

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### Application Requirements:

- Must be a local government, Tribe, or PNP
- Must have a FEMA approved Local Hazard Mitigation Plan
- Must fulfill appropriate state emergency management agency application requirements including, scope of work, budget, schedule, etc.
- Must include narrative discussion of the benefits of the project (no formal benefit-cost analysis is required)
- Must fit within program or state funding limits
- 25% local match required

### Environmental Requirements:

Building code improvement projects are categorically excluded from NEPA review as the activity involves no ground disturbance
FEMA Mitigation Opportunities
Hazard Mitigation Planning

Overview

Hazard mitigation planning reduces loss of life and property by minimizing the impact of disasters. Mitigation planning is the process used by state, tribal and local governments in identifying natural disaster risks and vulnerabilities that are common in their area. Mitigation plans are key to breaking the cycle of disaster damage, reconstruction, and repeated damage from hazards. When applying for certain types of non-emergency disaster assistance, FEMA requires a hazard mitigation plan.

Wildfires are a major threat to FEMA Region IX states. According to USGS, wildfires in Region IX states account for nearly half of the western United States fire suppression budget. FEMA offers funding for mitigation planning efforts. Mitigation plans are key to breaking the cycle of disaster damage, reconstruction, and repeated damage from hazards, including wildfires.

Eligible Activities

- Preparing a new plan or plan update, including developing regional and multi jurisdictional plans, strategies, or initiatives.
- Updating or enhancing sections of the current FEMA approved mitigation plan, such as:
  - Updating the risk and vulnerability assessment based on new information, including supporting studies, such as economic analyses, mapping, risk assessment, and planning
  - Strengthening the mitigation strategy section by incorporating actions to reduce vulnerabilities over the long term, as well as linking proposed actions to available funding
  - Augmenting the risk assessment and/or mitigation strategy section by incorporating climate adaptation, green building, nature based solutions, smart growth principles, or historic properties and cultural resources information
  - Incorporating diverse and/or underserved populations that have unique needs into the planning process, risk assessment, and mitigation strategy
  - Integrating mitigation planning with flood management planning for credit in the National Flood Insurance Program Community Rating System
- Integrating information from mitigation plans, specifically risk assessment or mitigation strategies, with other planning efforts, such as:
  - Disaster recovery strategy (pre or post disaster plans), preparedness, or response plans, including disaster recovery plans to protect local cultural, artistic, and historic resources
  - Comprehensive (e.g., land use, master) or community development plans
  - Capital improvement or economic development plans
  - Resource management/conservation plans (e.g., stormwater, open space)
  - Community Wildfire Protection Plans (CWPP)
  - Resilience and/or climate change adaptation plans
  - Other long term community planning initiatives (e.g., transportation, housing, recreation, landmark and heritage, economic development, redevelopment, drought, wildfire)
Eligible Activities Continued

- Procuring hazard identification or mapping and related equipment for the implementation of mitigation planning related activities
- Purchasing Geographic Information System software, hardware, and data
- Evaluating, updating, adopting, and/or implementing land development codes and ordinances that reduce risk and/or increase resilience to future hazards by:
  - Promoting flexibility and adaptation approaches in order to protect historic and cultural resources
  - Evaluating the current and future built environment to assess risks and vulnerabilities
- Improving mitigation strategies, specifically strengthening the linkage between mitigation plan implementation and well defined actions and projects

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- Must fit within program or state funding limits
- 25% local match required

Environmental Requirements:

Mitigation planning activities are categorically excluded from NEPA review as the activities involve no ground disturbance.

FEMA Region IX

September 2020
FEMA Mitigation Funding Opportunity
Advance Assistance

Overview

Advance Assistance provides early funding to accelerate the identification and implementation of mitigation activities. Applicants and sub-applicants may use Advance Assistance to develop mitigation strategies and obtain data to prioritize, select and develop complete mitigation applications in a timely manner, resulting in either an improvement in the capability to identify appropriate mitigation projects or in the development of an application-ready mitigation project.

Wildfires are unplanned fires that burn in natural areas like forests, grasslands or prairies. These dangerous fires spread quickly and can be devastating. FEMA has funding available to assist in identifying and formulating complete grant applications.

Overall Complexity

Eligible Activities

*Note: This list presents potential project scoping activities. This list is not exhaustive; Applicants and sub-applicants may have needs that extend beyond what has been included here.

- Scoping and developing hazard mitigation projects, including engineering design and feasibility studies
- Conducting meetings, outreach, and coordination with potential sub-applicants and community residents to identify potential future mitigation projects, including for ignition resistant construction retrofits and defensible space
- Evaluating facilities or areas to determine appropriate mitigation actions
- Incorporating environmental planning and historic preservation considerations into project planning activities
- Collecting data for benefit cost analyses, environmental compliance, and other program requirements
- Conducting hydrologic and hydraulic studies for unmapped flood zones or other areas where communities propose to submit hazard mitigation projects
- Coordinating, scoping, and developing regional or multi community hazard mitigation projects that require coordination to cohesively address resiliency and sustainability goals
- Utilizing third party cost estimation services for project budgeting across sub applications
- Contracting services to address data consistency needs for other project application categories, such as environmental planning and historic preservation, cost sharing mechanisms, and work schedules

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Environmental Requirements:

Advance Assistance activities are categorically excluded from NEPA review as the activities involve no ground disturbance.