

Federal Funding and Wildfires

(just in time training)



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Topics

- **Fed FUNDS**
- **Hazard Mitigation**
- **Watershed Mitigation Funding**
- **Q&A**

Federal Funding for Utilities - Water/Wastewater - in National Disasters (Fed FUNDS)



www.epa.gov/fedfunds



Fed FUNDs Homepage

Which Funding is Right for You?



Federal Disaster Funding Programs



Be Prepared to Tap into Funding



Utility Examples, Training, and Assistance



Currently in a Disaster?



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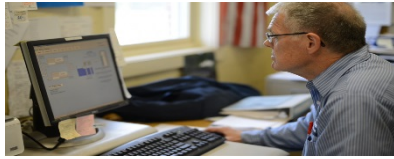


Utility Examples, Training, and Assistance



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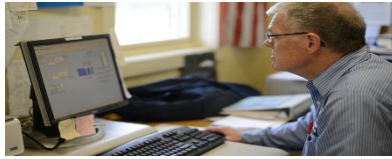


1. Based on the following sectors, how would you classify your water/wastewater utility?

- ☒ Public
- ☐ Private Non-Profit
- ☐ Private For-Profit

2. Do you want to learn about funding opportunities to repair damage to your utility from an emergency?

- ☒ Yes
- ☐ No



3. Are you seeking funding for mitigation activities that reduce losses from future disaster damages?

☒ Yes

☐ No

4. Are you a rural utility (population less than 10,000)?

☒ Yes

☐ No

Submit for Summary Report

Federal Funding Summary Report

2. You said that you want to learn about funding opportunities to repair damage to your utility from an emergency.

Consider the [Federal Emergency Management Agency \(FEMA\) Public Assistance Grant \(PA\) Program](#) when there is a presidentially-declared disaster.

- Determine if a [Presidential Disaster Declaration includes your jurisdiction](#)
- Attend an applicant briefing with FEMA (contact your state to determine location and timing)
- Complete a [Request for Public Assistance Form](#) within 30 days of a declaration to be eligible for FEMA funds
- See the [FEMA PA Program topic](#) in Fed FUNDS or go directly to the [FEMA PA website](#)
- Check out [Lessons Learned from Water and Wastewater Utilities that Participated in FEMA's PA Grant Program](#)

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FEMA Public Assistance

FEMA Mitigation Programs

USDA Water Grants

EPA State Revolving Funds

HUD Community Grants

SBA Loans

- Presidential Declaration (DR-4344)
- For Selected Utilities (public, private)
- Eligible Expenses:
 - equipment damaged in wildfire
 - wildfire mitigation for equipment damaged
- EPA- Lessons Learned Pamphlet

East Valley Water District

East Valley Water District in California was reimbursed for more than \$400,000 from FEMA Public Assistance Grants for disaster response to the Old Fire in the San Bernardino National Forest in October 2003.



Lessons Learned from Water/Wastewater Utilities that Participated in FEMA's Public Assistance Grant Program

Many drinking water and wastewater utilities have received funding for repair and replacement work through the Federal Emergency Management Agency (FEMA) Public Assistance (PA) Grant Program. The PA Program provides grants to eligible applicants after Presidentially-declared disasters. In this brochure, water and wastewater utilities provide lessons learned from working with FEMA and participating in the PA Program.

For more detailed information about the FEMA PA program, see <http://www.fema.gov/public-assistance-local-state-tribal-and-non-profit> and the EPA publication: *Public Assistance for Water and Wastewater Utilities in Emergencies and Disasters* – available at <http://water.epa.gov/infrastructure/watersecurity/emergencyplan/upload/Public-Assistance-for-Water-and-Wastewater-Utilities-in-Emergencies-and-Disasters.pdf>.

DISCLAIMER: *These lessons learned are provided to help water and wastewater utilities better understand use of the FEMA PA Program, but do not assure or guarantee any funding from FEMA.*

Learn about the PA Program prior to a disaster so the process goes more smoothly – To help maximize your potential for reimbursement, learn about the PA process



FEMA Public Assistance

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FEMA Program	Description
Public Assistance (PA) Grant Program	Provides grants to repair damage after a Presidential Disaster Declaration. Also, may be used to upgrade damaged parts of a facility from future disasters (e.g., raise replaced equipment).
Hazard Mitigation Grant Program	Provides grants for long-term hazard mitigation measures after a Presidential Disaster Declaration. During reconstruction, may upgrade undamaged parts of a facility that remain vulnerable.
Pre-Disaster Mitigation Program	Provides planning grants to reduce overall risk of future disasters to structures from future hazard events or annual hazards.
Flood Mitigation Assistance Program	Provides grants to reduce or eliminate risk of future disasters to structures that are insured under National Flood Insurance Program.

- PA and HMG related to Presidential Declaration
- Last 3 are competitive and need BCA



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- 
- Emergency Community Water Assistance Grants
 - Eligibility Requirements (pop, income)
 - Cohn Winery, Sonoma, CA
 - End-O-Valley Mutual Water Co. Santa Rosa CA
 - Addresses many types of emergencies

Funding

Up to \$150,000 for distribution line repair or extension

Up to \$500,000 for preventing severe decline in water quality (e.g. wells, reservoirs)



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- Resilience is criteria for priority projects
- Use more as mitigation; has set asides
- Clean Water SRF fund to protect source water



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New in Fed FUNDS

- Updated all with current funding information
- Added new funding programs including WIFIA - Water Infrastructure Finance and Innovation Act
- Includes two new archived webinars:
 - Disaster Recovery Financing
 - Resilience Mitigation Financing

www.epa.gov/fedfunds



Hazard Mitigation Partnership



Hazard Mitigation	Water Sector
FEMA HQ Hazard Mitigation	EPA HQ WSD
FEMA Regional Hazard Mitigation Specialists	EPA Regional Water Team/Water Program Specialists
State Hazard Mitigation Officer-SHMO	State Primacy Agency
Local Hazard Mitigation Planner	Water/Wastewater Utility

HAZARD MITIGATION FOR NATURAL DISASTERS

A Starter Guide for Water and Wastewater Utilities

Select a menu option below. New users should start with Overview Hazard Mitigation.



Overview
Hazard Mitigation



Join Local Mitigation
Efforts



Develop Mitigation
Projects



Implement and
Fund Project



Mitigation Case Study



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Steps

Click the icon to the right to learn about the four steps to develop mitigation projects.



Mitigation Resources by Natural Disaster

Click below to explore specific resources and mitigation examples for each natural disaster.



Flood



Earthquake



Drought



Wildfire



Tornado



Power Outage



Wildfire Mitigation Resources

Resource	Description
Effects of Wildfire on Drinking Water Utilities and Best Practices for Wildfire Risk Reduction and Mitigation <small>Exit</small>	Explanation of how wildfires affect water and wastewater services. Includes how to mitigate risk including forest management strategies and hydrologic effects of wildfires. (EPA and Water Research Foundation)
Fire Management Planning for Public Water Systems <small>Exit</small>	Advice for developing a fire management plan. Includes links to other wildfire-related resources. (Colorado Department of Public Health and Environment)
Active Fire Mapping Program <small>Exit</small>	Interactive map of active wildfires across the United States. (US Fire Service)
Incident Action Checklist - Wildfire	Checklist of activities that water and wastewater utilities can take to prepare for, respond to and recover from wildfires. (EPA)
Wildfire Hazard Mitigation Handbook for Public Facilities <small>Exit</small>	Handbook of mitigation measures identified for pipes, pumping stations, treatment facilities, wells, chemical tanks and power supply. (FEMA)

Wildfire Mitigation Examples

- Remove debris, trees or other fire-hazard materials.
- Institute high fire danger procedures such as smoking bans and fire bans.
- Install fire resilient building materials.
- Modify treatment process for sediment in water.



Before and after removal of at risk structures and debris



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Post-Wildfire Watershed Contamination

- **From Report on 2015 Butte and Valley Wildfires located primarily in Calaveras and Lake Counties, California :**
 - “When mixed with rainwater to form surface water runoff, the elevated concentrations of several metals and caustic alkaline materials in the ash may adversely affect ecosystems and the quality of surface and groundwater drinking water supplies.”

FEMA Post-Wildfire Pre-Calculated Benefits for Watershed Recovery

- FEMA benefit for post-wildfire mitigation: \$5,250/acre
- Multiply # acres by benefits per acre
 - Project that provides ground cover, soil stabilization and replanting for 1,000 acres, $1,000 \times 5,250 = \$5,250,000$ in benefits.
- Pre-calculated benefits based on planting forest and other vegetation with primary emphasis on flood reduction risk.
- Post-wildfire mitigation projects that demonstrate cost effectiveness need not submit separate BCR.
 - Hazard Mitigation Grants & Pre-Disaster Mitigation Grants
- <https://www.fema.gov/media-library/assets/documents/110202>

EPA Clean Water SRF for Source Water

- Under these eligibilities, states have funded stream bank restoration, purchase of conservation easements, erosion control measures, etc.
 - implement management program under section 319;
 - develop/implement conservation and management plan under section 320;
 - manage, reduce, treat, or recapture stormwater or subsurface drainage water;
 - develop and implement watershed projects meeting the criteria set forth in section 122;
 - reuse or recycle wastewater, stormwater, or subsurface drainage water



EPA's Water Utility Response On-The-Go

- New mobile app for iPhone & Android
- Helps responders & water utility operators access response information
 - severe weather watches/warnings
 - emergency contacts
 - emergency checklists (wildfire)
 - damage assessment forms
 - ICS resources



Questions?

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