

Resources for Nature-Based Solutions

FEMA Region 9

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FEMA's Strategic Vision



Goal 1: Instill equity as a foundation of emergency management



Goal 2: Lead whole of community in climate resilience



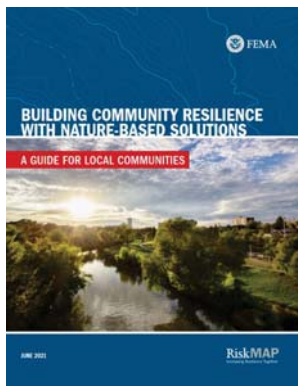
Goal 3: Promote and sustain a ready FEMA and prepared nation



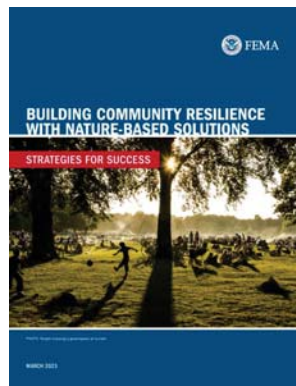
FEMA Resources for Nature-Based Solutions

- **Guidance**
 - [Building Community Resilience with Nature-Based Solutions: A Guide for Local Officials](#)
 - [Building Community Resilience With Nature-Based Solutions: Strategies for Success](#)
 - [Promoting Nature-Based Hazard Mitigation through FEMA Grants](#)
- **Funding through California Governor’s Office of Emergency Services**
 - [Building Resilient Infrastructure and Communities](#)
 - [Flood Mitigation Assistance](#)
 - [Hazard Mitigation Grant Program](#)
- **Best Practices**
 - [Level Up Audio Project](#)
- **Partnerships**
 - NOAA, The Nature Conservancy, US Army Corps of Engineers, EPA, and more.

FEMA Resources for Nature-Based Solutions: Guidance



[Building Community Resilience with Nature-Based Solutions: A Guide for Local Officials](#)

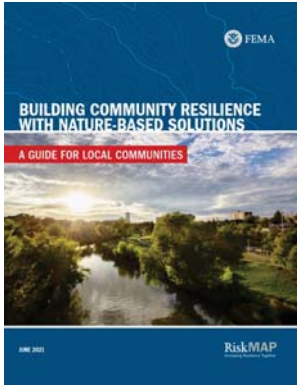


[Building Community Resilience With Nature-Based Solutions: Strategies for Success](#)



[Promoting Nature-Based Hazard Mitigation through FEMA Grants](#)

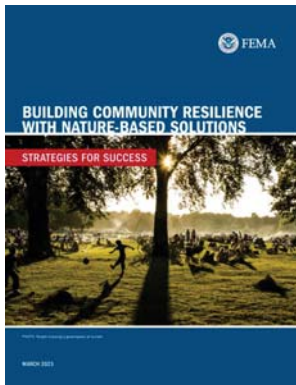
FEMA Resources for Nature-Based Solutions: Guidance



Building Community Resilience with Nature-Based Solutions: A Guide for Local Officials

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| WHAT ARE NATURE-BASED SOLUTIONS? Describes three broad categories of nature-based solutions. Identifies types of nature-based solutions in each category. |
| THE BUSINESS CASE Outlines the many hazards that can be mitigated with nature-based solutions. Discusses the multiple benefits of nature-based solutions, in addition to hazard mitigation. |
| PLANNING AND POLICY-MAKING PHASE Identifies planning processes and programs that can help users invest in nature-based solutions. Discusses how plans and policies can be updated to allow and encourage nature-based solutions. |
| IMPLEMENTATION PHASE Reviews how local resources can be mobilized to preserve, restore, and build nature-based solutions. Discusses innovative ways of promoting private investment. |
| FEDERAL FUNDING OPPORTUNITIES Outlines federal funding sources for nature-based solutions. Emphasizes FEMA's Hazard Mitigation Assistance (HMA) grant programs. |
| KEY TAKEAWAYS AND RESOURCES Summarizes key points for communities. Provides additional resources. |

FEMA Resources for Nature-Based Solutions: Guidance



Building Community Resilience with Nature-Based Solutions: Strategies for Success

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|  BUILDING STRONG PARTNERSHIPS. NBS projects work best when different partners and organizations rally around common goals. Communities will benefit most by establishing partnerships early and fostering them through the life of a project. |
|  ENGAGING THE WHOLE COMMUNITY. Community engagement is key to carrying out NBS projects that work for the Whole Community. Community and project leaders will see better results by reaching out to all community members early and often. |
|  MATCHING PROJECT SIZE WITH DESIRED GOALS AND BENEFITS. The range of NBS and hybrid solutions provides many options to reduce risk. The size and reach of an NBS project, or group of projects, should match the level of benefits a community wants. |
|  MAXIMIZING BENEFITS. NBS offer many different benefits to communities. By making small additions to project designs or combining multiple solutions, communities can get more for their investment. |
|  DESIGNING FOR THE FUTURE. This means planning for a combination of changes in climate, population patterns and community development. Doing so helps communities implement solutions that can adapt to changing risks and reduce impacts of future events. |

FEMA Resources for Nature-Based Solutions: Guidance



[Promoting Nature-Based Hazard Mitigation through FEMA Grants](#)

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|---|---|
|  | FEMA HAZARD MITIGATION ASSISTANCE PROGRAMS |
|  | MITIGATION TECHNIQUES |
|  | QUANTIFYING BENEFITS |
|  | APPROACH & STRATEGY |

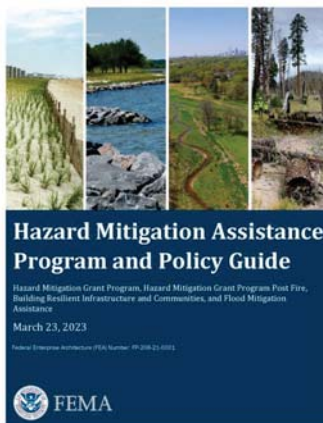
Is the need for a mitigation project driven by pre-disaster preparation or an immediate post-disaster response?

Is the primary hazard affecting the project site coastal flooding, urban flooding, or wildfire? Based on the project site characteristics, what is the most effective NBS?

How to best quantify the benefits of nature-based solutions using the FEMA benefit-cost analysis (BCA) tool and capture additional ancillary benefits offered by a nature-based approach?

How to maximize possible mitigation benefits, build consensus, gain stakeholders, or improve overall project impact?

FEMA Resources for Nature-Based Solutions: Funding



[Hazard Mitigation Assistance Unified Guidance 2023](#)

Funding ([FEMA Sources](#))

- Building Resilient Infrastructure and Communities ([BRIC](#)) Grant Program
 - Annual, Nationally Competitive
- Flood Mitigation Assistance ([FMA](#))
 - Annual, Nationally Competitive
- Hazard Mitigation Grant Program ([HMGP](#)) + HMGP Post Fire ([HMGP-PF](#))
 - Disaster-Based



FEMA Resources for Nature-Based Solutions: Partnerships and Best Practices

■ Partnerships

- Trainings
 - NOAA Office of Coastal Management
- Technical Assistance
 - USACE
- Funding
 - EPA, NOAA, FHA, BoR, USGS
- Best Practices & Guidance
 - Georgetown Climate Center
 - The Nature Conservancy

[Level Up Audio Project - Georgetown Climate Center](#)



[Level Up Audio Project:
Season 3, Episode 5](#)



[Level Up Audio Project:
Season 2, Episode 1](#)