

Developing Mitigation Projects



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CFM

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Mitigation

Hazard mitigation is defined as any sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event.”

With Your Mitigation Plan...

- ✓ You know your hazards
- ✓ You've identified what mitigation you already do
- ✓ You've identified what mitigation you should do
- ✓ You have an action plan with mitigation actions and projects
- ✓ You've adopted the plan and it is being maintained

And now - mitigation projects...(*optional*)....



FEMA Mitigation Grants

*“\$3 of our [IEMA/FEMA] dollars
to \$1 of your dollars”*

75% FEMA

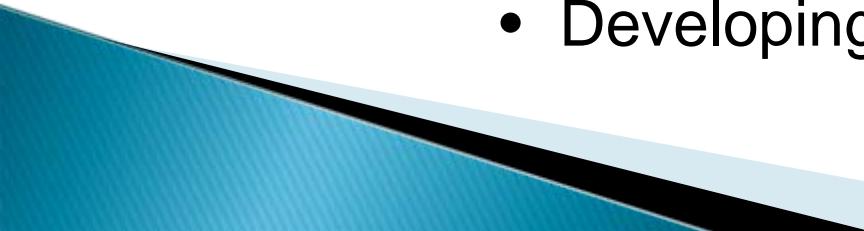


**25% state
or local**

Developing Mitigation Projects

Goal: Show tools, resources and approaches for considering and developing mitigation projects.

What you need to know:

- Resources for Project Development
 - Fundable Planning Activities and Projects
 - Benefit-Cost Analysis
 - Grant Applications (eGrants)
 - Developing a Scope of Work
- 

Grant Programs:

- ▶ Pre-Disaster Mitigation (PDM)
- ▶ Hazard Mitigation Grant Program (HMGP)
- ▶ Flood Mitigation Assistance (FMA)
- ▶ Severe Repetitive Loss (SRL)



Resources

- ▶ “FY 2010 Hazard Mitigation Assistance (HMA) Unified Guidance”

<http://www.fema.gov/library/viewRecord.do?id=3649>

Hazard Mitigation Assistance Unified Guidance

Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program,
Flood Mitigation Assistance Program, Repetitive Flood Claims
Program, Severe Repetitive Loss Program

June 1, 2009



FEMA

Federal Emergency Management Agency
Department of Homeland Security
500 C Street, S.W.
Washington, DC 20472

Resources

- ▶ “FY 2010 Hazard Mitigation Assistance (HMA) Unified Guidance”

<http://www.fema.gov/library/viewRecord.do?id=3649>

- ▶ Benefit-Cost (BC) Toolkit Software and
- ▶ BCA Technical Assistance Helpline

<http://www.bchelpline.com>

BCA HELPLINE

[HOME](#)[DOWNLOAD SOFTWARE](#)[FAQ](#)[RESOURCE KIT](#)[TRAINING](#)

Need Resources? Find them in the: [Resource Kit](#)

Welcome to the BCA Tool Kit, Version 4.5, for the Hazard Mitigation Assistance program. We have recently updated the software to include:

- Targeted dynamic user guidance
- Modified economic values to reflect current information
- Updated resource documents
- Expanded BCA file import and export capabilities
- Enhanced ability to do earthquake mitigation projects for bridges and utilities
- Improved ability to use negative elevations in the flood module

Please note that subapplicants are required to use BCA software, Version 4.0 or higher, for the four non-disaster FY10 Hazard Mitigation Assistance Programs, and for HMGP applications for disaster declarations after June 1, 2009.


This enhanced tool kit confirms FEMA's continued commitment to offering hazard mitigation grant applicants and evaluators an innovative software package to demonstrate the cost effectiveness of proposed mitigation projects and to determine project eligibility for federal funding.

The FEMA BCA team will utilize this latest version of the software for all future BCA training sessions. This website has been updated to incorporate the latest information and resources with BCA. The BC Helpline has resources such as Methodology Reports, Data Documentation Templates (DDTs), BCA training schedule, and frequently asked questions (FAQs). I would like to bring your attention to four important items on the BC Helpline:

- FEMA BCA Software Version 4.5:
www.bchelpline.com/regn.aspx
- Classroom Training Materials:

RESOURCES

Below you will find documentation on setup, installation and usage of the BC Software.

 [BCA Software Installation and Trouble Shooting Guide](#)

CURRENT BCA USERS

This Web site is for the new Benefit-Cost Analysis Tool development.

If you are looking for guidance and assistance on the current BCA software, please call (866) 222-3580 or e-mail bchelpline@dhs.gov.

Resources

- ▶ “FY 2010 Hazard Mitigation Assistance (HMA) Unified Guidance”

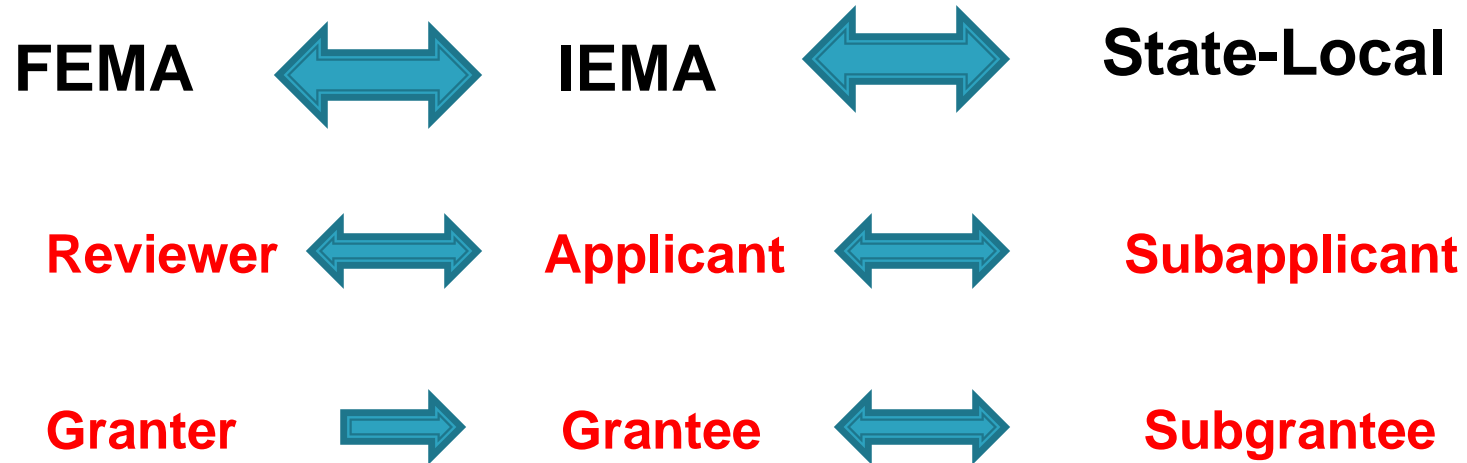
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- ▶ Benefit-Cost (BC) Toolkit Software and
- ▶ BCA Technical Assistance Helpline

<http://www.bchelpline.com>

- ▶ IEMA

Who is Who?



Time for Mitigation Projects!

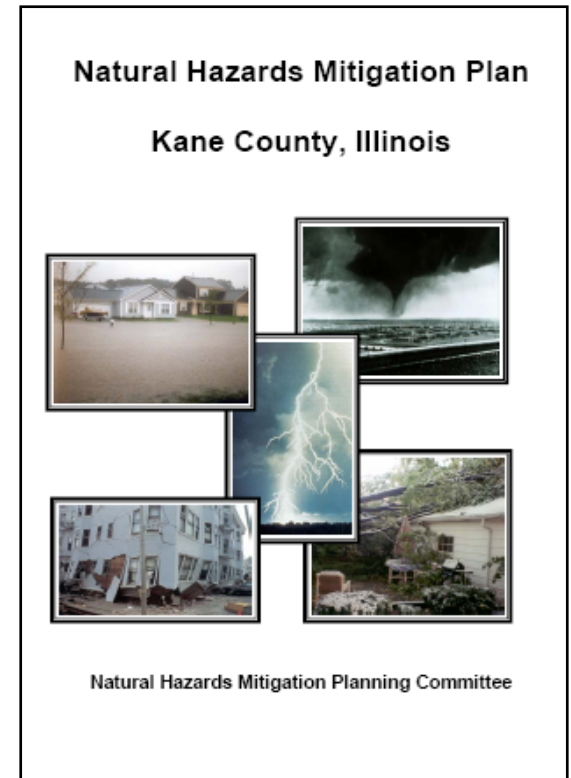
Fundable or Eligible Activities:

For Subapplicants.....

- Plans
- Projects

Planning Grants

- Mitigation Plan Development
- Investigation of Mitigation Alternatives
- Repetitive Loss Area Investigation
- Critical Facility Evaluations



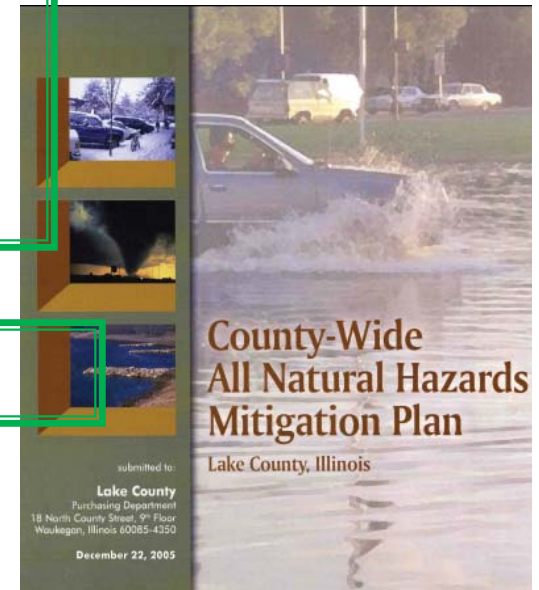
Natural Hazard Mitigation

Flood
Earthquake
Severe Summer Storms
Severe Winter Storms
Tornado
Wind
Drought
Dam Failure
And so on....

Developing Mitigation Projects

Eligible Projects

- Acquisition & Demolition
- Structural Elevation & Floodproofing
- Minor Localized Flood Reduction Projects
- Building Retrofitting
- Infrastructure Retrofit
- Mitigation Reconstruction
- Safe Room Construction
- Soil Stabilization
- Post Disaster Code Enforcement



Grant Application Requirements

- Additional planning effort or mitigation project must be included in your mitigation plan*
- Cost-Share
- Benefit-Cost Ratio 1.0 or Better
- Scope of Work

Cost share

75% FEMA



25% state
or local

Cost share

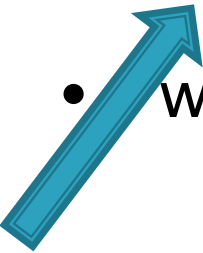
75% FEMA

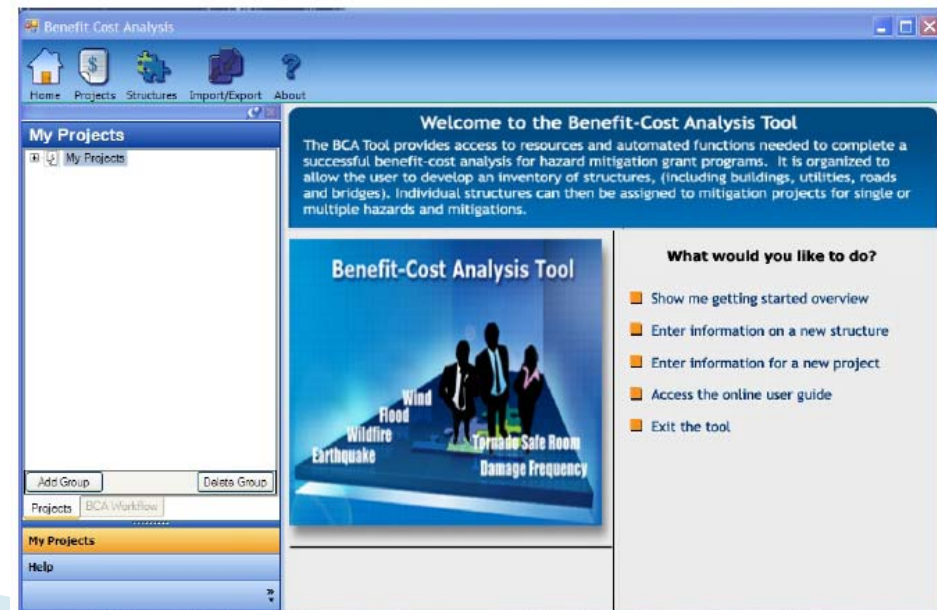


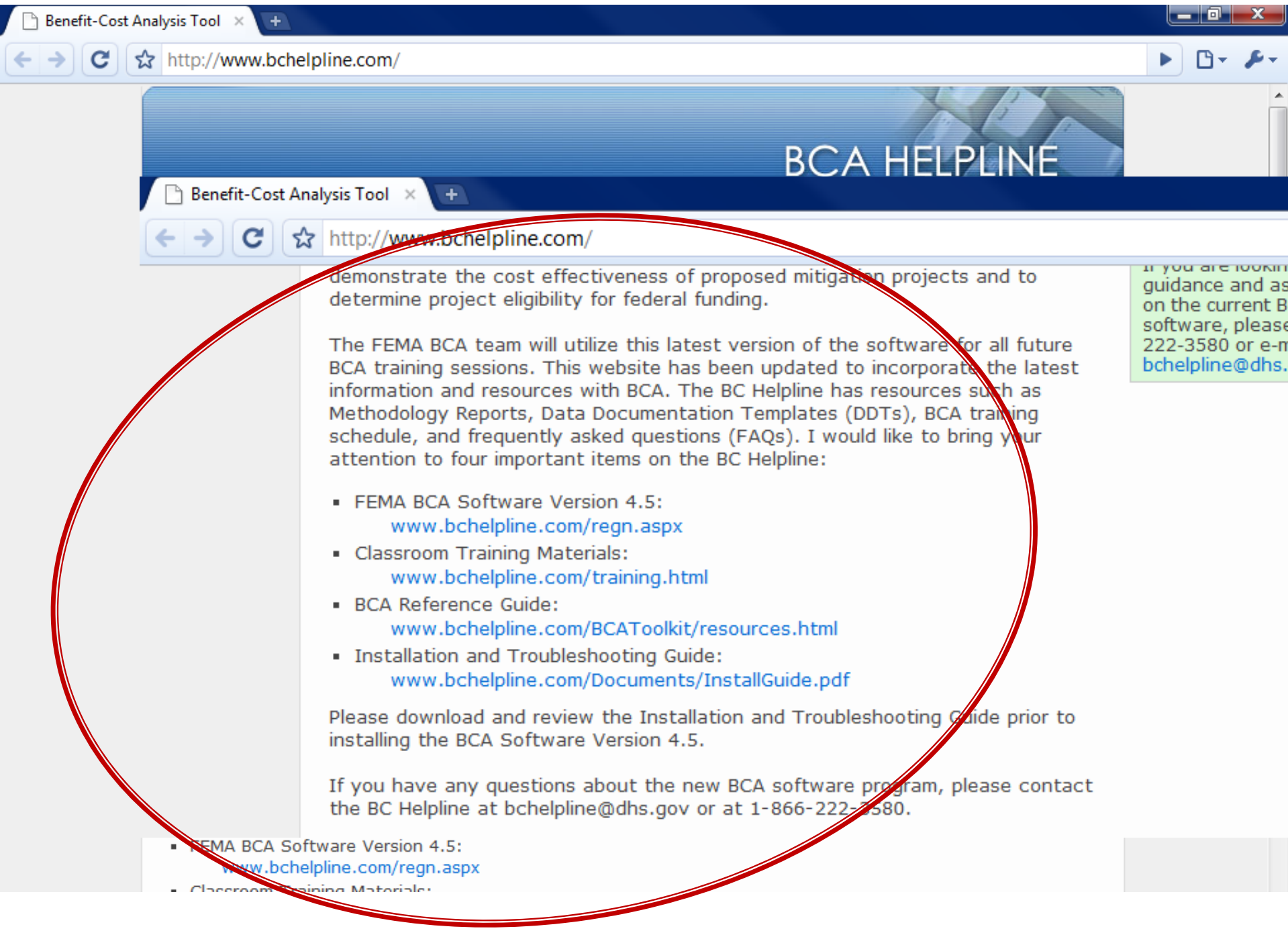
25% state
or local

- ▶ Of 25% state/local share:
 - 12.5% in-kind services
 - 12.5% cash match
- ▶ State matching sources: IDNR and others

Benefit–Cost Analysis (BCA)

- Benefit–Cost Ratio Must Be 1.0 or Greater
- Benefits = Damages Removed
- ALL Project Costs Must Be Included
- Latest FEMA Software
-  www.bchelp.com





BCA HELPLINE

demonstrate the cost effectiveness of proposed mitigation projects and to determine project eligibility for federal funding.

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- Classroom Training Materials:
www.bchelpline.com/training.html
- BCA Reference Guide:
www.bchelpline.com/BCAToolkit/resources.html
- Installation and Troubleshooting Guide:
www.bchelpline.com/Documents/InstallGuide.pdf

Please download and review the Installation and Troubleshooting Guide prior to installing the BCA Software Version 4.5.

If you have any questions about the new BCA software program, please contact the BC Helpline at bchelpline@dhs.gov or at 1-866-222-3580.

If you are looking for guidance and assistance on the current BCA software, please call 1-866-222-3580 or e-mail bchelpline@dhs.gov.

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BCA HELPLINE

[HOME](#)[DOWNLOAD SOFTWARE](#)[FAQ](#)[RESOURCE KIT](#)[TRAINING](#)

Benefit-Cost Analysis Software Download

Have you already registered to download the BCA Software? ☐ Yes

Name

Organization/Agency

Phone

E-mail

SIGN UP

Please use the form to complete the sign up process.

BCA HELPLINE

[HOME](#)[DOWNLOAD SOFTWARE](#)[FAQ](#)[RESOURCE KIT](#)[TRAINING](#)

Need Resources? Find them in the: [Resource Kit](#)

Welcome to the BCA Tool Kit, Version 4.5, for the Hazard Mitigation Assistance program. We have recently updated the software to include:

- Targeted dynamic user guidance

RESOURCES

Below you will find

Benefit-Cost Analysis Resource Kit

VERSION 4.5

- HOME
- RESOURCES
- GLOS

Resources

FEMA provides several resources, in addition to the user and are provided on this Resource Kit. This information, and information on the grant resource kit, users have direct access to as well as Adobe reader and Word viewer.

Please use the menu bar to the right to find available resources including Grant information.

General

- [BCA Checklist](#)
- [BCA Fact Sheet](#)
- [BCA Reference Guide](#)
- [Hazard Mitigation Assistance Unit](#)

- [Flood](#)
- [Hurricane Wind](#)
- [Earthquake](#)
- [Tornado](#)
- [Wildfire](#)
- [Damage Frequency Assessment](#)
- [Grant Programs](#)



Home



Projects



Structures



Import/Export



About

My Projects

My Projects

Add Group

Delete Group

Projects BCA Workflow

My Projects

Help

Welcome to the Benefit-Cost Analysis Tool

The BCA Tool provides access to resources and automated functions needed to complete a successful benefit-cost analysis for hazard mitigation grant programs. It is organized to allow the user to develop an inventory of structures, (including buildings, utilities, roads and bridges). Individual structures can then be assigned to mitigation projects for single or multiple hazards and mitigations.

Benefit-Cost Analysis Tool



What would you like to do?

- ☐ Show me getting started overview
- ☐ Enter information on a new structure
- ☐ Enter information for a new project
- ☐ Access the online user guide
- ☐ Exit the tool

BCA Information Checklist

Below is the information needed to get started with a Benefit-Cost Analysis

Obtained	Information Type	Potential Sources
<input type="checkbox"/>	First Floor Elevation (FFE)	FEMA elevation certificate; a signed, sealed, and dated structure elevation survey; a building permit; or other documentation where the FFE is certified by a State-licensed professional surveyor or State-registered professional engineer.
<input type="checkbox"/>	Building Replacement (BRV)	Tax records or tax card, property appraisal from a building inspector or local contractor, or documented data from a national cost-estimating guide.
<input type="checkbox"/>	Building Area (square footage)	Tax records or tax card, property survey, real estate listing, building permit, property appraisal, or other square footage data provided by the local jurisdiction.
<input type="checkbox"/>	Flood Hazard Data (Flood Elevation and Discharge Data)	Copies of the relevant pages from the FEMA Flood Insurance Study (FIS) or a Hydrology and Hydraulics (H&H) study for the flooding source, including the summary of discharges and flood profiles that reflect the flood data for the property locations.
<input type="checkbox"/>	Building Contents Data	If the default is not used, a complete, itemized list of building contents with associated values, purchase receipts, appraisal of items, or copies of an itemized insurance policy that specifically cites the contents value.
<input type="checkbox"/>	Displacement Costs	For displacement costs above the FEMA standard values of the displacement costs may include advertisements for rental properties in the community, advertisements for rental or storage spaces, contacts with rental agencies, or receipts from similar rentals.
<input type="checkbox"/>	Flood Frequency Data	If FIS or H&H not available or using the Damage Frequency Approach (DFA), use historical records of flood frequencies for past storm events with the date of the flood event; recorded flood depth; damage amounts (in dollars); stream gage data; rain gage data; newspaper clippings; or detailed engineering calculations prepared by a State-certified hydrologist or State-registered professional engineer. This information is often required for grant applications.
<input type="checkbox"/>	Before Mitigation Damages Data	If FIS or H&H not available or using the Damage Frequency Approach (DFA), use insurance claims data, receipts for repair or replacement due to previous flood damages, newspaper clippings, or detailed damage estimates based on documented flood levels or other community records. This information is often required for grant applications.

Benefit–Cost Analysis – Essential Needs

Items	Information Type	Molly's Recommendation
1	First Floor Elevation (FFE)	Field Survey
2	Building Replacement (BRV)	e.g., Marshall & Swift
3	Building Area (square footage)	Assessor or Homeowner
4	Flood Hazard Data (Flood Elevation and Discharge Data)	FIS and FIRM
5	After Mitigation Damages Data	Building Removed or New BFE
6	Project Cost	All Costs!

BCA Information Checklist

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To Get Started on the BCA

- Build a spreadsheet
- Test properties on the Benefit–Cost Analysis Tool

Property		Structure										100-year
Address	Lot Number	Type	Year of Trailer	Age (years)	Condition (Good, Average, Fair, Poor)	M&S Depreciation (%)	Length	Width	Sq. Feet	Ground (LAG)	First Floor Elevation	BFE 100-year
			Page 1		Pg. 1		Page 2	Page 2		Survey	Survey	Above
955 East State Street	A	Trailer	1965	44	Good	58	48	20	960.0	829.5	832	836.5
955 East State Street	B	Trailer	1970	39	Good	58	60	14	840.0	829.5	832.4	836.5
955 East State Street	D	Trailer	1993	16	Good	29	70	14	980.0	829.9	833.5	836.5
955 East State Street	E	Trailer	1984	25	Good	45	66	14	924.0	829.8	833.8	836.5
955 East State Street	F	Trailer	1990	19	Good	35	70	14	980.0	830	833.3	836.5
955 East State Street	G	Trailer	1968	41	Fair	61	56	12	672.0	829.6	833	836.5
955 East State Street	H	Trailer	1967	42	Fair	61	60	12	720.0	829.5	833.2	836.5
955 East State Street	I	Trailer	1966	43	Fair	61	60	12	720.0	829.4	833	836.5
955 East State Street	J	Trailer	1988	21	Average	45	66	14	924.0	829.9	832.8	836.5
955 East State Street	K	Trailer	1980	29	Average	58	50	10	500.0	829.8	832.9	836.5
955 East State Street	M	Trailer	1992	17	Average	40	68	14	952.0	829.8	832.7	836.5
955 East State Street	N	Trailer	1991	18	Average	40	70	14	980.0	829.6	833.2	836.5



Home (Ctrl+H)



Projects (Ctrl+P)



Structures (Ctrl+S)



Import/Export (Ctrl+I)



Backup/Restore (Ctrl+B)



About (Ctrl+A)

Save and Continue

My Projects

My Projects

My Projects

PROJECT INVENTORY

Project Name	BCR	Costs	Benefits Δ	Is Active	Delete
A	2.28	\$296,305	\$676,477	<input type="checkbox"/>	
L	3.71	\$1,339,078	\$4,969,820	<input type="checkbox"/>	
L	2.07	\$2,499,759	\$5,183,020	<input type="checkbox"/>	
C	3.57	\$3,202,135	\$11,423,947	<input type="checkbox"/>	

Add Group

Delete Group

My Projects

BCA Workflow

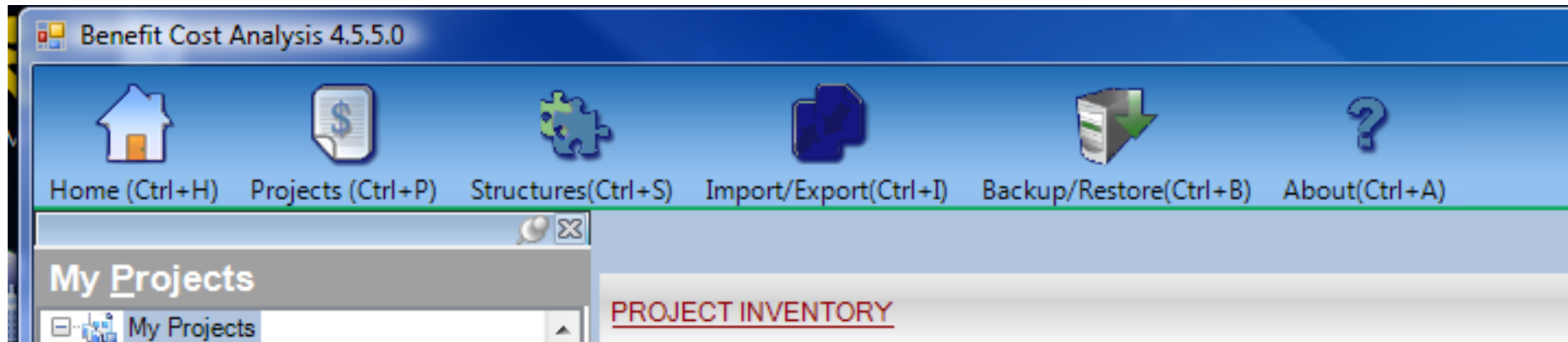
My Projects

Help

New

Update

Copy



(Ctrl+S) Import/Export (Ctrl+I) Backup/Restore (Ctrl+B) About (Ctrl+A)

Save and Continue

PROJECT INVENTORY

Project Name	BCR	Costs	Benefits	Is Active	Delete
Floodville Acquisition	2.28	\$296,305	\$676,477	<input type="checkbox"/>	
Floodville Elevation	3.71	\$1,339,078	\$4,969,820	<input type="checkbox"/>	
	2.07	\$2,499,759	\$5,183,020	<input type="checkbox"/>	
	3.57	\$3,202,135	\$11,423,947	<input type="checkbox"/>	

Structures(Ctrl+S) Import/Export(Ctrl+I) Backup/Restore(Ctrl+B) About(Ctrl+A)

Save and Go Back


Save and Continue

PROJECT: Lake 2009 FMA Acquisition Project, STRUCTURE: :

STRUCTURE BCR: 0.90

MITIGATION INFORMATION

STRUCTURE NAME: 24719 N. River Shore, TYPE: Building, ADDRESS:
CITY: STATE: Illinois, COUNTY: Lake, ZIP:

Mitigation	Hazard	Δ	BCR	Benefits	Costs	Status Report	Includ e	Delete
Acquisition	Flood		0.90	\$119,820	\$132,692	View Re	<input checked="" type="checkbox"/>	

START NEW MITIGATION

- ☐ Flood
- ☐ Hurricane Wind
- ☐ Damage-Frequency Assessment
- ☐ Tornado Safe Room
- ☐ Earthquake
- ☐ Wildfire

s(Ctrl+S) Import/Export(Ctrl+I) Backup/Restore(Ctrl+B) About(Ctrl+A)

PROJECT: Lake 2009 FMA Acquisition Project, STRUCTURE: 24719 N. Ri
MITIGATION TYPE: Flood - Acquisition

Save and Go Back

FULL FLOOD - QUESTIONNAIRE

What is the source of your flood data? *

- ☒ Flood Insurance Study (FIS) ☐ Both
☐ Hydrology & Hydraulics (H&H) study ☐ I have no flood data

Is the project located in a Special Flood Hazard Area (SFHA) FEMA-delineated flood plain? *

- ☒ Yes ☐ No ☐ Unknown

Is the source of flooding a river? *

- ☒ Yes ☐ No

Does the FIS include a flood profile delineating the 10, 50, 100 and 500 year floods and a summary of discharges? *

- ☒ Yes ☐ No

Do you have the Streambed Elevation? *

- ☒ Yes ☐ No

Do you have the First Floor Elevation? *

- ☒ Yes ☐ No



s(Ctrl+S) Import/Export(Ctrl+I) Backup/Restore(Ctrl+B) About(Ctrl+A)

PROJECT: Lake 2009 FMA Acquisition Project, STRUCTURE:
MITIGATION TYPE: Flood - Acquisition

Save and Go Back

STRUCTURE INFORMATION

Total size of building (sf) *	1111	✎ (For nonresidential building, input square footage for the first floor only. If a Library Depth Damage Function is used, see Help)
Value of building (BRV) (\$/sf) *	121.98	
Total value of building (BRV)	\$ 135,520	
Demolition damage threshold (%)	50.00%	
Is the building Residential? *	<input checked="" type="radio"/> Yes <input type="radio"/> No	

RESIDENTIAL STRUCTURE DETAILS

Riverine / Coastal A

Select Building Type *

- | | |
|--------------------------------------------|-----------------------------------|
| <input checked="" type="radio"/> One Story | <input type="radio"/> Mobile Home |
| <input type="radio"/> Two or More Stories | <input type="radio"/> Other |
| <input type="radio"/> Split Level | |

Select foundation type * = None Of The Below = ▼

Does the building have a basement? *

- ☐ Yes ☒ No

Coastal V *

- ☐ With Obstruction ☐ Without Obstruction

STRUCTURE INFORMATION

Total size of building (sf) *

1111

Value of building (BRV) (\$/sf) *

121.98

Total value of building (BRV)

\$ 135,520

Demolition damage threshold (%)

50.00%

Is the building Residential? *

☐ Yes

☒ No

(For nonresidential building, input square footage for the first floor only. If a Library Depth Damage Function is used, see Help)

NON-RESIDENTIAL STRUCTURE DETAILS

Type of Structure *

☒ Engineered ☐ Pre-Engineered

Select primary use of building *

= SELECT =

Building Contents (\$)

☒ Default

☐ Other

Displacement costs (\$/month)

One-Time displacement costs (\$)

= SELECT =
Retail-Furniture
Retail-Electronics
Retail-Clothing
Hotel
Fast Food
Non-Fast Food
Hospital
Medical Office
Protective Services
Correctional Facility
Recreation
Religious Facilities
Schools
Service Station
Office One-Story
Convenience Store
Grocery
Apartment
Industrial Light
Warehouse, Refrig
Warehouse, Non-Refrig

Justification/Documentation

Justification

Upload Document

Justification for Field: Primary use

Save and Go Back

SUMMARY OF BENEFITS

Expected Annual Damages Before Mitigation

Annual \$ 8,397

Present Value \$ 119,820

Expected Annual Damages After Mitigation

Annual \$ 0

Present Value \$ 0

Expected Avoided Damages After Mitigation (BENEFITS)

Annual \$ 8,397

Present Value \$ 119,820

MITIGATION BENEFITS \$ 119,820

MITIGATION COSTS \$ 132,692

BENEFITS MINUS COSTS \$ -12,872

BENEFIT-COST RATIO 0.90

Project BCA vs. Structure BCA

- Total Benefits verses Total Costs
- $0.90 + 1.2 = 1.05$
- Low BCs
- Very High BCs

Property		Structure										100-year
Address	Lot Number	Type	Year of Trailer	Age (years)	Condition (Good, Average, Fair, Poor)	M&S Depreciation (%)	Length	Width	Sq. Feet	Ground (LAG)	First Floor Elevation	BFE 100-year
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Ctrl+S) Import/Export(Ctrl+I) Backup/Restore(Ctrl+B) All

PROJECT: Lake 2009 FMA Acquisition Project, STRUCTURE
MITIGATION TYPE: Flood - Acquisition

Save and Go Back

FLOOD MITIGATION TYPE

Save and Continue

STRUCTURE BCR: 0.90

What Type of Flood Mitigation Project ? *

Justification/Documentation

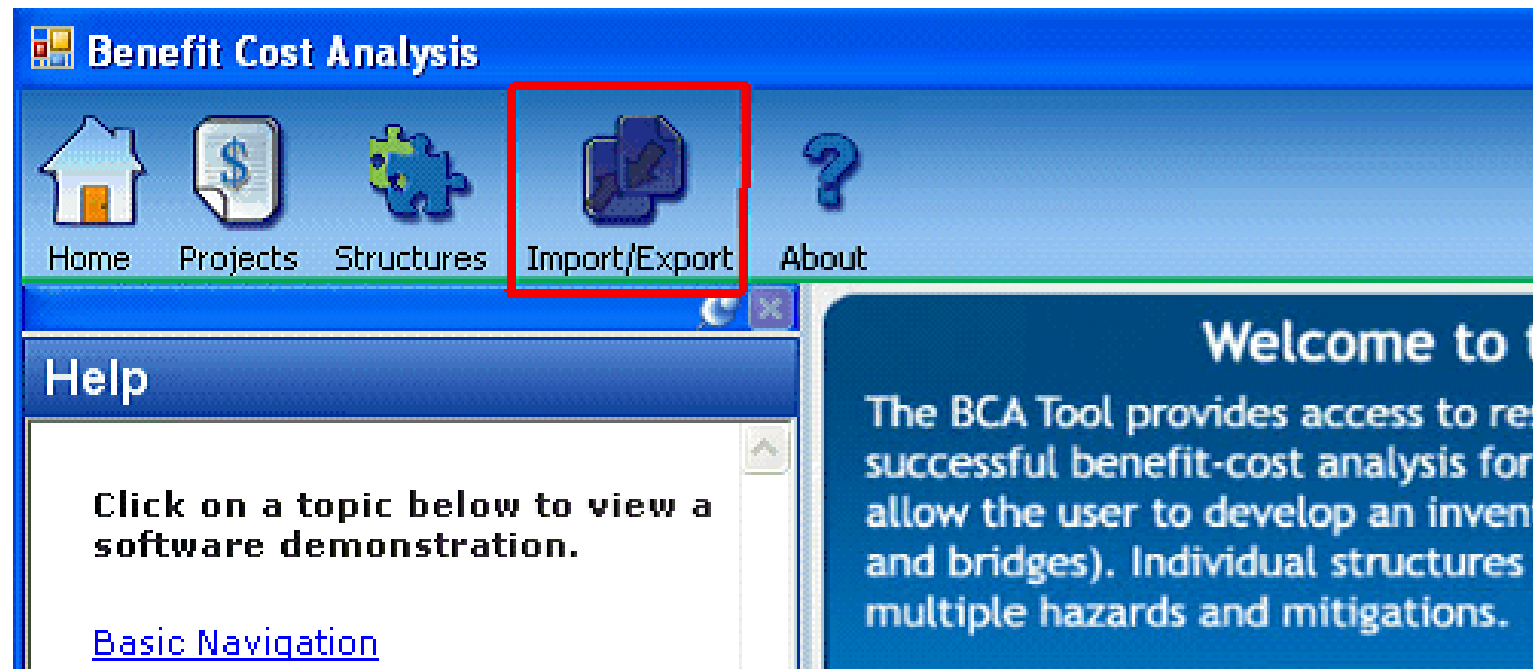
Justification





Upload Documents

Justification for Field:


Save justification

Benefit–Cost Analysis Tool



PROJECT INVENTORY					
Project Name	BCR	Costs	Benefits Δ	Is Active	Delete
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Grant Application

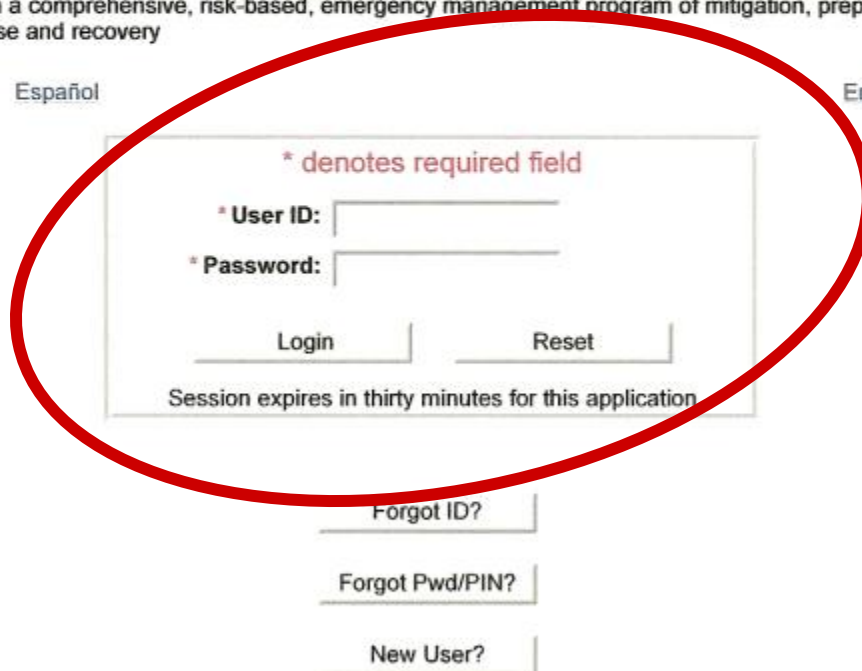
1. Call IEMA
 2. Request a Login to eGrants
 3. Print Blank Application
 4. Write a Scope of Work
 5. Complete the BCA (with justifications)
 6. Complete the eGrant Application & attachments
 7. Submit to IEMA “Stockpile”
- 

OUR MISSION

To reduce loss of life and property and protect our nation's critical infrastructure from all types of hazards through a comprehensive, risk-based, emergency management program of mitigation, preparedness, response and recovery

[Español](#)

[English](#)



* denotes required field

* User ID:

* Password:

Session expires in thirty minutes for this application

View Subgrant Application Sections

Application Title: Kane County, Illinois, Repetitive Loss Mitigation Project

Subgrant Applicant: Kane County Environmental Management

FEMA Application Number: PDMC-PJ-05-IL-2007-002

State Application Number: IL-2007-004

Application Year: 2007

Grant Type: Project Application

Address: 719 Batavia Avenue Building A, Geneva, IL 60134-0000

To view an application section, click on the appropriate *View* link below. To print one or more sections, select the checkbox and then click on the *Print* button. When you are finished, click the *Close Window* button below.

Print

Select	Application Section	Action
<input type="checkbox"/>	Applicant Information	View
<input type="checkbox"/>	Contact Information	View
<input type="checkbox"/>	Community Information	View
<input type="checkbox"/>	Mitigation Plan Information	View
<input type="checkbox"/>	Mitigation Activity Information	View
<input type="checkbox"/>	Hazard Information	View
<input type="checkbox"/>	Scope of Work	View
<input type="checkbox"/>	Properties	View
<input type="checkbox"/>	Decision Making Process	View
<input type="checkbox"/>	Cost Estimate	View
<input type="checkbox"/>	Match Sources	View

► Benefits of eGrants

- Online tool allows ongoing for updates
- Paperless
- Project team can access application
- Maneuverable

But...

- Many attachments
- Takes time



View Subgrant Application Sections

Application Title: Kane County, Illinois, Repetitive Loss Mitigation Project

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Scope of Work – Outline

1. Overview
2. Community Profile
3. Hazard Description
4. Problem Assessment
5. Need for Mitigation
6. Mitigation Goals
7. Mitigation Alternatives
8. Recommended Mitigation Approach
9. Benefit-Cost Analysis
10. Project Funding
11. Project Schedule
12. Project Implementation

Scope of Work



- It Provides an Overview
- Cut & Paste Paragraphs to eGrants
- eGrant Attachment
- Share with Your Local Officials
- Use to Solicit Matching Funds

Developing Mitigation Projects

- Fundable Activities
- Assessing Projects
- Benefit-Cost Analysis
- eGrants
- Scope of Work



- ✓ Why Pursue a Mitigation Grant – What's the Benefit to the Community
- ✓ How to Pursue a Mitigation Grant
- ✓ Important Considerations - Things to Watch Out For

In the Mitigation Plan We've Said....



“...if we have the resources.”



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IAFSM 2010 Annual Conference – March 11, 2010 – Tinley Park, Illinois