Have a Mitigation Plan?
Then Time for Mitigation Projects!

Molly J. O’Toole, P.E., D.WRE, CFM
Christine M. Gaynes, CFM
Have a Mitigation Plan? Then Time for Mitigation Projects!

✓ What’s Important to Have in Your Plan
✓ To Inform You About Grant Opportunities
✓ 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
Hazard mitigation is defined as any sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event.”

Source: Federal Emergency Management Agency
Have a Mitigation Plan?

Have a Mitigation Plan? Then Time for Mitigation Projects!
✓ You’ve followed the FEMA planning steps.
✓ You know your hazards.
✓ You’ve identified what mitigation you already do.
✓ You’ve identified what mitigation you should do.
✓ Many recommendations and an action plan.
✓ The plan is adopted and is being maintained.

Have a Mitigation Plan?
No, Not Yet...

✓ Follow the recommended FEMA planning steps.
✓ Determine your hazards.
✓ Identify what mitigation you already do.
✓ Identify what mitigation you should do.
✓ **Develop recommendations while being mindful of mitigation projects.**
✓ Adopt and maintain the plan.

*Have a Mitigation Plan?*
Mitigation Planning

- Follow the recommended planning process.
- Review the FEMA “How To” planning guides.
- Review the “Crosswalk.”
- Think about CRS.
Ten Step Planning Process

1. Organize
2. Involve the Public
3. Coordinate
4. Assess the hazard
5. Evaluate the problem
6. Set goals
7. Mitigation strategies
8. Draft action plan
9. Adopt the plan
10. Implement, evaluate

Applies to all FEMA planning programs!
Review the FEMA “How To” Guides
Review the “Crosswalk”

LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK

Jurisdiction:

LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted.

Each requirement includes separate elements. All elements of the requirement must be rated “Satisfactory” in order for the requirement to be fulfilled and receive a score of “Satisfactory.” Elements of each requirement are listed on the following pages of the Local Review Crosswalk. A “Needs Improvement” score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer’s comments must be provided for requirements receiving a “Needs Improvement” score.

SCORING SYSTEM

Please check one of the following for each requirement.

N — Needs Improvement: The plan does not meet the minimum for the requirement. Reviewer’s comments must be provided.

S — Satisfactory: The plan meets the minimum for the requirement. Reviewer’s comments are encouraged, but not required.

Requirements (Check Applicable Box)

Adoption by the Local Governing Body: §201.6(c)(5) and §78.5(d)

OR

Multi-Jurisdictional Plan Adoption: §201.6(c)(5) and §78.5(d) AND

Multi-Jurisdictional Planning Participation: §201.6(a)(3) and §70.5(a)

Planning Process

Recommendation of the Planning Commission:

STAFFORD MET FEMA MET

Met / Not Met

N --- S --- N --- S
Mitigation Planning

• Follow the recommended planning process.
• Review the FEMA “How To” planning guides.
• Review the “Crosswalk.”
• Think about CRS.

Have a Mitigation Plan?
Who Has a Mitigation Plan?

- Local jurisdictions with a DMA2k approved plan.. (16% of State)

- Local jurisdictions that are developing DMA2k plans

- Local jurisdiction ineligible for PDM planning funds because they don’t participate in the NFIP.
Time for Mitigation Projects!

- Mitigation Grants
- Grant Fund Sources
- Cost-Share & Other Requirements
- Benefit-Cost Analysis
- Grant Applications (eGrants)
- Selecting a Project to Implement
- Lake County SMC Projects
In the Mitigation Plan We’ve Said....

“...if we have the resources.”
Mitigation Grants

FEMA  IEMA  State-Local

Granter  Grantee  Subgrantee

Time for Mitigation Projects!
Grant Programs:

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

PDM

- Nationwide competitive annual grant
- Projects compete based on benefit/cost ratio
- Application period opens in the fall
- Grant announcements in the spring
- All natural hazards
Hazard Mitigation Grant Program
HMGP

- Funding to State after disaster declaration
- Project selected by IEMA
- Can be used in locations other than the disaster-declared counties
- Application at anytime
- All natural hazards
Flood Mitigation Assistance
FMA

- For flood mitigation
- Annual funds provided to IEMA
- Relatively small program
Severe Repetitive Loss
SRL

- For flood mitigation
- For individual *insured* structures
- A number of unique requirements
Mitigation Grants

Additional Planning Efforts

- Repetitive Loss Area Investigation
- Critical Facility Evaluations
- Mitigation Alternatives

Projects

- Acquisitions
- Elevations & Floodproofing
- Drainage Improvements
Grant Application Requirements

• Additional planning effort or mitigation project must be included in your mitigation plan*

• Cost–Share

• Benefit–Cost Analysis

• Scope of Work

• eGrant Application
Cost share

75% FEMA

25% state or local

“$3 of our [IEMA/FEMA] dollars to $1 of your dollars”
Cost share

25% state or local

75% FEMA

- Of 25% state/local share:
  - 12.5% in-kind services
  - 12.5% cash match

- State matching sources: IDNR and others
Benefit–Cost Analysis

- Benefit–Cost Ratio Must Be 1.0 or Greater
- ALL Project Costs Must Be Included
- FEMA Software
Benefit–Cost Analysis Tool

The BCA Tool provides access to resources that help in the development of an inventory of structures and bridges. Individual structures have multiple hazards, and mitigations require cost-effective solutions. This tool facilitates the analysis by providing a platform for importing and exporting data, allowing for a comprehensive assessment of costs and benefits.
What is the source of your flood data?

- [ ] Flood Insurance Study (FIS)
- [X] 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?

- [X] Yes
- [ ] No
- [ ] Unknown

Is the source of flooding a river?

- [X] Yes
- [ ] No

Does the combined data provided by your FIS and H&H study delineate the flood elevations and discharges for four different frequencies for the project area?

- [X] Yes
- [ ] No

Do you have the First Floor Elevation (FFE)?

- [X] Yes
- [ ] No
## BCA Data

- FIS Data
- First Floor Elevation
- Replacement Costs
- Market Values

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<th>Structure</th>
<th>100-year</th>
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<td>1965</td>
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<td>955 East State Street B</td>
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<td>955 East State Street D</td>
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<td>955 East State Street E</td>
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<td>955 East State Street F</td>
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<td>1990</td>
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<td>955 East State Street G</td>
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<td>1968</td>
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<td>1967</td>
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<td>955 East State Street N</td>
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<td>1991</td>
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To Get Started on the Benefit–Cost Analysis

• Build a spreadsheet
• Test properties on the Benefit–Cost Analysis Tool
• Old 2 Foot Rule
Benefit–Cost Analysis

• Download the FEMA Benefit–Cost Analysis Tool (FEMA website)

• E–Mail or call the HelpDesk!
Scope of Work

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
eGrants

- Need a Login – Contact IEMA
- Review a Blank Application
- Attachments & More Attachments
- Coordinate with IEMA
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.

* denotes required field

* User ID: 

* Password: 

Login  Reset

Session expires in thirty minutes for this application

Forgot ID?

Forgot Pwd/PIN?

New User?
### 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 60134-2000

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.

<table>
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<td>Community Information</td>
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<td></td>
<td>Mitigation Plan Information</td>
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<td>Hazard Information</td>
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<td></td>
<td>Scope of Work</td>
<td>View</td>
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<td></td>
<td>Properties</td>
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<td></td>
<td>Other Information</td>
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**Note:** The sections listed above are for demonstration purposes only and may not reflect the actual sections in the application.
Benefits of eGrants

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

- Familiarization time
- Lots of information required
- Lots of attachments
Important Steps for Mitigation
Grant Applications:

- Talk to IEMA
- Print blank applications and review
- Benefit–cost analysis
- Build a scope of work
- Build the application
Have a Mitigation Plan?
Then Time for Mitigation Projects!

Molly J. O’Toole, P.E., D.WRE, CFM

Christine M. Gaynes, CFM
County-Wide All Natural Hazards Mitigation Plan
Lake County, Illinois

submitted to:
Lake County
Purchasing Department
18 North County Street, 9th Floor
Waukegan, Illinois 60085-4350

 Adopted by
Lake County on 8/1/06

submitted by:
URS
100 South Wacker Drive, Suite 500
Chicago, Illinois 60606
Grant Programs:

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

Pre-Disaster Mitigation, Flood Mitigation Assistance, Repetitive Flood Claims, Severe Repetitive Loss

June 19, 2008

FEMA
Pre-Disaster Mitigation Program
PDM

- Purpose is to provide mitigation funds *prior* to a disaster
- Acquisition and elevation are eligible activities
- Nationally competitive program
- Requires State level approval prior to FEMA
- Project size is limited to $3 million
- 75%-25% cost-share
Available due to a Federally Declared Disaster

Funds available based on amount of disaster aid received by State

Acquisition and elevation are eligible activities

Non-competitive program

Requires State level approval prior to FEMA

75%-25% cost-share
Severe Repetitive Loss
SRL

- For insured structures
- To reduce risk to the NFIP
- SRL properties identified by FEMA
- Up to 90%-10% cost-share
Flood Mitigation Project Eligibility

FEMA Requirements:

- Approved & adopted mitigation plan
- Community in good standing with the NFIP
- Property located in the floodplain or floodway
- Public notice
Flood Mitigation Project Eligibility

Lake County SMC Requirements:

- Flood-Prone Property Survey
  - Flooding History
  - Previous Flood Damage
  - Insurance Claims

- Replacement Cost Questionnaire
  - Structures and Interior Features
  - For B/C Analysis

- All Voluntary Program
## Lake County SMC Flood Mitigation Projects

<table>
<thead>
<tr>
<th></th>
<th>2008 PDM</th>
<th>2008 HMGP</th>
<th>2008 SRL</th>
<th>2009 PDM</th>
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<tr>
<td><strong>Acquisitions</strong></td>
<td>11</td>
<td>21</td>
<td></td>
<td>6</td>
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<tr>
<td><strong>Elevations</strong></td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Properties</strong></td>
<td>11</td>
<td>25</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td><strong>Participating Municipalities</strong></td>
<td>5</td>
<td>6</td>
<td>1</td>
<td>4</td>
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### FEMA Grant Application Summary 2008-2009

<table>
<thead>
<tr>
<th></th>
<th>2008 PDM* Grant</th>
<th>2008 HMGP**</th>
<th>2008 SRL Grant***</th>
<th>2009 PDM* Grant</th>
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<tr>
<td>Federal Contribution</td>
<td>$1.6 m</td>
<td>$4.1 m</td>
<td>$58,500</td>
<td>$1.8 m</td>
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<tr>
<td>Local Contribution</td>
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<td>$1.4 m</td>
<td>$6,500</td>
<td>$0.6 m</td>
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<tr>
<td>Total Project Cost</td>
<td>$2.1 m</td>
<td>$5.5 m</td>
<td>$65,000</td>
<td>$2.4 m</td>
</tr>
</tbody>
</table>

* PDM – Pre-Disaster Mitigation Grant
** HMGP – Hazard Mitigation Grant Program
*** SRL – Severe Repetitive Loss Grant
Project Challenges

- Loss of Tax Revenue
- Appraised vs. Assessed Value
- Time for Project Implementation
- Environmental Inspection of Property
- Open Space ≠ Dumping Ground
- Long-Term Maintenance
Project Challenges

- Loss of Tax Revenue
- Appraised vs. Assessed Value
- Time for Project Implementation
- Environmental Inspection of Property
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Project Challenges

- Loss of Tax Revenue
- Appraised vs. Assessed Value
- Time for Project Implementation
- Environmental Inspection of Property
- Open Space ≠ Dumping Ground
- Long-Term Maintenance
Finding Cost–Share Solutions

- Reduced Budgets
- Be Resourceful
- In–Kind Services
Summary

✓ Grant Opportunities
✓ [How to Pursue a Mitigation Grant]
✓ Selecting Projects
✓ Things to Consider
✓ Coordinate with IEMA
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