

Item #4:
Resolution Approving Lake County
All Natural Hazards Mitigation Plan

**VILLAGE OF LONG GROVE
RESOLUTION NO. 2012-R-__**

**ADOPTION OF THE 2012 LAKE COUNTY
ALL NATURAL HAZARDS MITIGATION PLAN**

WHEREAS, Lake County is subject to flooding, tornadoes, severe summer and winter storms, and other natural hazards that can damage property, close businesses, disrupt traffic, and present a public health and safety hazard; and

WHEREAS, the Lake County Local Planning Committee has prepared a recommended the 2012 update of *Lake County All Natural Hazards Mitigation Plan* that reviews the County's options to protect people and reduce damage from hazards; and

Whereas, the Lake County and Lake County municipalities prepared and adopted the 2006 *Lake County All Natural Hazards Mitigation Plan* and the 2012 *Lake County All Natural Hazards Mitigation Plan* is an updated required by the Federal Emergency Management Agency; and

WHEREAS, the 2012 *Lake County All Natural Hazards Mitigation Plan* was developed as a multi-jurisdictional plan has been submitted and approved by Illinois Emergency Management Agency and the Federal Emergency Management Agency; and

WHEREAS, the recommended 2012 *Lake County All Natural Hazards Mitigation Plan* has been widely circulated for review by residents and federal, state, and regional agencies and has been supported by those reviewers; and

WHEREAS the preparation and adoption of a community mitigation plan is a requirement of the Federal Emergency Management Agency in order for Lake County to be eligible for federal mitigation funds under Section 104 of the Disaster Mitigation Act of 2000 (42 USC 5165), and under 44 CFR (Code of Federal Regulations) Part 201.

NOW, THEREFORE BE IT RESOLVED, that the 2012 *Lake County All Natural Hazards Mitigation Plan*, is hereby adopted as an official plan of the Village of Long Grove and;

BE IF FURTHER RESOLVED, that the Village Manager David Lothspeich is hereby appointed as the Village's representative on the Lake County Local Planning Committee and will keep the Village apprised of the mitigation action items undertaken by or reported to the Lake County Local Planning Committee, and

BE IT FURTHER RESOLVED, that the Village Clerk is hereby requested to distribute a certified copy of this Resolution to the Lake County Stormwater Management Commission.

PASSED this 24th day of April, 2012.

AYES: Trustees:
NAYS: None
ABSENT: None

APPROVED this 24th day of April, 2012.

Village President Maria Rodriguez

ATTEST:

Village Clerk Karen Schultheis



Lake County All Natural Hazards Mitigation Plan

June 2012

Developed by:

Lake County Local Planning Committee

Coordinated by:

Lake County Stormwater Management Commission
and the
Lake County Emergency Management Agency

Planning Consultant:

Molly O'Toole & Associates, Ltd.

With Technical Assistance Provided by

Michael Baker, Jr., Inc.

[page intentionally left blank]

Lake County All Natural Hazards Mitigation Plan

Table of Contents

June 2012

Executive Summary	ES-1
Chapter 1 Introduction.....	1-1
1.1 Purpose of the Plan	1-2
1.2 Organization of the Plan	1-2
1.3 Lake County Overview	1-3
1.4 Land Use and Development	1-12
1.5 Critical Facilities	1-18
Chapter 2 Planning Process	2-1
2.1 Planning Approach.....	2-1
2.2 Update Process	2-2
2.3 Plan Adoption and Implementation	2-7
2.3 Summary of Updates to the ANHMP	2-7
Chapter 3 Risk Assessment	3-1
3.1 Natural Hazards in Lake County.....	3-1
3.2 Lake County Assets	3-4
3.3 Flood	3-7
3.4 Tornado	3-28
3.5 Severe Summer Storms.....	3-37
3.6 Severe Winter Storms	3-48
3.7 Drought	3-53
3.8 Earthquake	3-57
3.9 Dam Failure	3-61
3.10 Extreme Temperatures	3-66
3.11 Erosion	3-72
3.12 Summary of Natural Hazards Risk Assessment	3-74
Chapter 4 Mitigation Goals	4-1
4.1 Community Priorities and Plan Direction.....	4-1
4.2 Goals and Guidelines	4-2
4.3 Consideration of Other Plans	4-3

Chapter 5 Mitigation Strategies and Capabilities Assessment 5-1

- 5.1 Preventive Measures 5-2
 - 5.1.1 Planning and Zoning
 - 5.1.2 Watershed Regulations
 - 5.1.3 Best Management Practices
 - 5.1.4 Building Codes
 - 5.1.5 Standards for Manufactured Homes
 - 5.1.6 Critical Facility Construction Requirements
 - 5.1.7 Other Preventive Measures
 - 5.1.8 Preventive Measure Recommendations

- 5.2 Property Protection 5-14
 - 5.2.1. Building Acquisition/Relocation
 - 5.2.2. Building Elevation, Floodproofing or Barriers
 - 5.2.3. Building Structural Retrofitting
 - 5.2.4. Insurance
 - 5.2.5 Repetitive Flood Loss Properties
 - 5.2.6 Property Protection Recommendations

- 5.3 Natural Resource Protection 5-28
 - 5.3.1 Open Space Preservation
 - 5.3.2. Wetland Protection Regulations & Soil Erosion and Sediment Control
 - 5.3.3. Stream Restoration
 - 5.3.4. Groundwater Protection
 - 5.3.5. Urban Forestry
 - 5.3.6. Historic and Natural Area Protection
 - 5.3.7 Resource Protection Recommendations

- 5.4 Emergency Services 5-35
 - 5.4.1 Emergency Planning
 - 5.4.2 Threat Recognition
 - 5.4.3 Warning
 - 5.4.4 Response
 - 5.4.5 Critical Facility Operation
 - 5.4.6 Recovery and Mitigation
 - 5.4.7 Emergency Services Recommendations

- 5.5 Structural Measures 5-44
 - 5.5.1 Watershed Planning
 - 5.5.2. Regional Flood Control
 - 5.5.3. Management of Existing Dams
 - 5.5.4. Improving Crossings and Roadways
 - 5.5.5. Drainage System Maintenance
 - 5.5.6 Structural Measure Recommendations

5.6 Public Information Activities.....	5-49
5.6.1 Library and Website Resources	
5.6.2 Outreach projects	
5.6.3 Technical Assistance	
5.6.4 Public Information Recommendations	
5.7 Capability Assessment Summary	
Chapter 6 Action Plan and Implementation Strategy	6-1
6.1 Development of Current Action Plan	6-1
6.2 Lake County ANHMP Action Items.....	6-3
6.3 Implementation Strategy	6-17
Chapter 7 Plan Maintenance	7-1
7.1 Plan Adoption	7-1
7.2 Maintenance and Monitoring.....	7-1
7.3 Continued Public Participation	7-2
7.4 Evaluating the Plan’s Success.....	7-2

Appendices

Appendix A. Participation

Annex 1 to the ANHMP

Appendix B. Public Information Activities Items

Sample Public Information Materials

Public Meeting Attendance Sheets

Summary of “Survey Monkey” Findings

Appendix C. Progress on 2006 Action Plan and Comparison to Current Action Plan

Appendix D: Resolutions and FEMA Approval

List of Exhibits

Exhibit 1-1 Lake County Municipalities.....	1-4
Exhibit 1-2 Lake County Townships	1-5
Exhibit 1-3 Lake County Elementary School Districts.....	1-10
Exhibit 1-4 Lake County High School Districts	1-11
Exhibit 1-5 Lake County 2005 Lane Use	1-16

Exhibit 1-6 Lake County Future Land Use	1-17
Exhibit 1-8 Lake County Critical Facilities	1-20
Exhibit 3-1 Lake County Watersheds and Subwatersheds	3-10
Exhibit 3-2 – Lake County 100 Year Floodplain and Floodway.....	3-17
Exhibit 3-3– Lake County “Flood Problem Areas”	3-19
Exhibit 3-4 Lake County Repetitive Flood Loss Areas	3-23
Exhibit 3-5 – Lake County Tornado Touch Downs.....	3-33
Exhibit 3-6 – Lake County Hail over 0.75”	3-40
Exhibit 3-7 – Lake County Lightning Events	3-44
Exhibit 3-8 – Lake County Dams	3-65
Exhibit 5-1 – Lake County Lake County Flood Audit, Floodplain Buyout Locations..	5-16
Exhibit 5-2 – Lake County Wetlands.....	5-31

List of Tables

Table 1-1 Lake County Township Population Data	1-7
Table 1-2 Lake County Municipalities Population Data.....	1-7
Table 1-3 2005 Land Use	1-13
Table 1-4 Planned Future Land Uses	1-14
Table 1-5 All Lake County Critical Facilities	1-18
Table 1-6 Lake County Critical Facilities Located in the 100-year Floodplain	1-18
Table 2-1 Local Planning Committee Communities and Representatives	2-3
Table 2-2 Summary of Major Changes in ANHMP	2-8
Table 3-1 Defined Risk Assessment Terms Table	3-1
Table 3-2 Local Planning Committee Hazard Exercise Ranking	3-2
Table 3-3 Presidential Disaster (DR) And Emergency Declarations (EM) In Lake County	3-2
Table 3-4 Evaluation Of Hazards For Inclusion In 2011 Risk Assessment	3-4
Table 3-5 Summary of Lake County Assets	3-5
Table 3-6 Summary of Lake County Buildings and Building Value.....	3-6
Table 3-7 Fox River Watershed in Lake County.....	3-13
Table 3-8 Des Plaines River Watershed in Lake County	3-14
Table 3-9 North Branch of the Chicago River Watershed in Lake County.....	3-15
Table 3-10 Lake Michigan Watersheds in Lake County	3-15

Table 3-11 Floodplain Land Use	3-16
Table 3-12: Lake County Estimate of Flood Prone Land	3-16
Table 3-13 Lake County Flood Problem Area Inventory Summary.....	3-18
Table 3-14 Lake County Flood Insurance Active Policies and Claims, FEMA 2011 .	3-20
Table 3-15 Lake County Repetitive Loss Structures	3-21
Table 3-16 Lake County Repetitive Flood Loss Area Numbers and Names.....	3-22
Table 3-17 “Flood Audited” Repetitive Loss Properties in Lake County	3-24
Table 3-18 Past Occurring Flood Events In Lake County, National Climatic Data Center (NCDC).....	3-25
Table 3-19 Structures Located in Lake County Floodplains	3-27
Table 3-20 Estimated Market Value of Structures Located in Lake County Floodplains	3-27
Table 3-21 Enhanced Fujita Scale and Associated Damage.....	3-29
Table 3-22 Institutional Buildings	3-30
Table 3-23 Educational Institutions (Elementary Schools, High Schools).....	3-30
Table 3-24 Metal Building Systems	3-31
Table 3-25 Electric Transmission Lines	3-31
Table 3-26 Lake County Tornado History (1957-2011) (NCDC).....	3-34
Table 3-27 Hail Size Reference	3-38
Table 3-28 Lake County Hail Events (1963-2011) (NCDC).....	3-39
Table 3-29 High Wind Events In Lake County (1960-2011) With Recorded Deaths, Injuries Or Damages (NCDC)	3-41
Table 3-30 Lightning Strikes In Lake County (1995-2011) (NCDC)	3-43
Table 3-31 Severe Winter Storms In Lake County (1994-2011) (NCDC).....	3-50
Table 3-32 Drought Severity Classification	3-54
Table 3-33 Modified Mercalli Intensity.....	3-57
Table 3-34 Recent Earthquakes In Illinois.....	3-59
Table 3-35 Class I And II Dams In Lake County	3-64
Table 3-36 Cold Weather Threat Levels.....	3-69
Table 3-37 Extreme Heat Events In Lake County (1995-2011).....	3-70
Table 3-38 Extreme Cold Events In Lake County (1996-2011) (NCDC)	3-70
Table 3-39 Summary of Lake County Natural Hazards	3-75
Table 3-40 Lake County Hazard Identification Summary.....	3-76

Table 3-41 IEMA Hazard Ratings for Lake County.....	3-77
Table 5-1 Natural Hazard Mitigation Activities.....	5-1
Table 5-2 Lake County Plans and Ordinances.....	5-5
Table 5-3 Lake County WDO Certified Communities.....	5-7
Table 5-4 Lake County Flood Insurance Status.....	5-24
Table 5-5 Historic Bridges in Lake County.....	5-34
Table 5-6 NWS Flood Forecast Points.....	5-37
Table 5-7 Lake County Flood Response Assignments.....	5-41
Table 5-8 Flood Control Reservoirs.....	5-46
Table 6-1 Summary of 2012 ANHMP Hazard Mitigation Action Items.....	6-18
Table 6-2 Summary of 2012 Action Items and ANHMP Goals.....	6-19
Table C-1 2006 Action Plan Status and 2012 Action Plan Updates.....	C-2

List of Figures

Figure 1-1 Lake County Employment.....	1-9
Figure 1-2 Lake County 2005 Land Use.....	1-13
Figure 1-3 Lake County Future Land Use Percentiles.....	1-14
Figure 2-1 Planning Steps.....	2-1
Figure 3-1 Description of a Floodplain.....	3-7
Figure 3-2 Stratton Lock and Dam.....	3-11
Figure 3-3 Operational Constraints Stratton Lock and Dam.....	3-12
Figure 3-4 Upper Midwest Wind Zones.....	3-42
Figure 3-5 Flash Density Associated With Lightning Strike.....	3-43
Figure 3-6 July 2011 Northern Illinois Storm.....	3-46
Figure 3-7 1954 Lake Michigan Seiche.....	3-47
Figure 3-8 “Did You Feel It” Reports for April 18, 2008 Earthquake in Wabash County, Illinois.....	3-60
Figure 3-9 NOAA’s National Weather Service Heat Index.....	3-67
Figure 3-10 Wind Chill.....	3-68
Figure 5-1 Flood Forecast and Rain and Stream Gage Links.....	5-35

Executive Summary

Lake County, Illinois, is subject to natural hazards that threaten the life, health, and safety of residents and visitors. Natural hazards have caused extensive property damage throughout the County and can be expected to cause more damage in the future. In recent years:

- Major flood events struck the County in 1979, 1982, 1986, 1993, 1996, 2000, and 2004;
- Sixteen tornadoes have touched down since 1957;
- Severe thunderstorm, high winds, hail and rain impacted the County in 1996, 1998, and 2002
- Severe winter storms impacted the residents in 1999 and 2000;
- Wildfires burned acreage in 2003 and 2005; and
- Extreme heat impacted the young and the elderly in 1999.

To better understand these existing hazards' impacts on people and property and to consider how to address them in the future, the Lake County Administrators Office, the Stormwater Management Commission, and the communities of Lake County jointly undertook the preparation of this *County-Wide All Natural Hazards Mitigation Plan*.

The incentive for states and local governments to undertake natural hazard mitigation planning was given impetus on October 30, 2000, when the President signed the Disaster Mitigation Act of 2000 (DMA 2000, Public Law 106-390). The law encourages and rewards local and state pre-disaster planning, promotes sustainability as a strategy for disaster resistance, and is intended to integrate state and local planning with the aim of strengthening statewide mitigation planning. The State of Illinois has prepared a State Mitigation Plan that has been approved by FEMA. The Illinois Emergency Management Agency, with FEMA's assistance, has conducted mitigation planning training throughout the State to encourage communities to prepare their own plans. This Plan will help Lake County take advantage of state and federal pre and post-disaster funding opportunities for eligible hazard mitigation projects.

The Plan was developed by the County-Wide All Natural Hazard Mitigation Team. The Team members include representatives of County offices, local jurisdictions, Agencies, and public and private stakeholders. The Team also included those communities who may have later opted not to continue in the planning process (for a complete list, see the Acknowledgements). The Team reviewed the consultants' work in development of the Plan. The Plan was prepared following a planning process that incorporates four phases of hazard mitigation planning as recommended by the Federal Emergency Management Agency (FEMA) in the "How-to" hazard mitigation planning guidance.

The Plan identifies activities that can be undertaken by both the public and the private sectors to reduce safety hazards, health hazards, and property damage caused by natural hazards. It focuses on six high-risk natural hazards and five moderate risk natural hazards facing Lake County. The high risk natural hazards include floods, high winds, tornadoes, severe thunderstorms, hail, and severe winter storms. The moderate risk

Executive Summary

natural hazards include dam failures, wildfires, ravine bank erosion, lake erosion and extreme heat. The full County-Wide All Natural Hazard Mitigation Plan for Lake County can be viewed or downloaded at <http://www.co.lake.il.us/smc>.

The Team reviewed a list of hazards considered, the reason why they were or were not included as a hazard affecting Lake County, the source of information used for making the determination, and the disposition as to whether a profile and vulnerability assessment was to be made. The following table was prepared.

Hazard	Why Identified	Source of Information	Disposition
Flood	Riverine and depressional flooding	www.crh.noaa.gov/lot/science/may-2004/index.htm www.co.lake.il.us	High Risk - Profile and vulnerability assessment.
High Wind	Some damage from high wind events have occurred in this community in the past.	local newspaper search, National Weather Service www.esri.com/hazards/makem ap.html (ESRI/FEMA Hazard Awareness site) Generates an online hazard map	High Risk - Profile and vulnerability assessment.
Tornado	Several Tornadoes have occurred in this community in the past. Tornadoes can cause significant deaths and injuries.	local newspaper search, National Weather Service www.esri.com/hazards/makem ap.html (ESRI/FEMA Hazard Awareness site) - Generates an online hazard map	High Risk - Profile and vulnerability assessment.
Severe Thunderstorm	Some damage from thunderstorms has occurred in this community in the past.	local newspaper search, National Weather Service www.esri.com/hazards/makem ap.html (ESRI/FEMA Hazard Awareness site) - Generates an online hazard map	High Risk - Profile and vulnerability assessment.
Hail	Some damage from hail storms has occurred in this community in the past.	local newspaper search, National Weather Service www.esri.com/hazards/makem ap.html (ESRI/FEMA Hazard Awareness site) - Generates an online hazard map	High Risk - Profile and vulnerability assessment.
Severe Winter Storm	Some damage from severe winter storms has occurred in this community in the past.	www.crh.noaa.gov/lot/science/no1597/no1597.htm National Weather Service Central Region	High Risk - Profile and vulnerability assessment.
Dam Failure	Municipalities identified dam failure as a natural hazard.	Public Meeting (9/28/, 2004). The Illinois Department of Natural Resources have identified 32 dams.	Moderate Risk - Profile
Wildfire	Observed Fire Danger Class – moderate Municipalities identified wildfire as a limited natural	FEMA, National Map Keetch-Byram Drought Index www.fs.fed.us/land/wfas.html (Forest Service Department of	Moderate Risk - Profile

Executive Summary

Table 3-1: Hazard Identification

Hazard	Why Identified	Source of Information	Disposition
	hazard.	Agriculture / Wildland Fire Assessment System)	
Ravine Bank Erosion	Ravine Bank Erosion action has resulted in erosion and retreat of bluffs that averages more than 9 inches per year and locally exceeds 3 feet per year.	ISGS - www.isgs.uiuc.edu Illinois State Geological Survey Website	Moderate Risk - Profile
Lake Erosion	Periodic intense stormwaves, as well as high water levels have caused damage to the shoreline	www.water.usgs.gov/pubs/fs/ ; www.water.usgs.gov USGS Fact Sheet Website (fs-013-96)	Moderate Risk - Profile
Extreme Heat	Area has been subject to extreme heat on occasion	www.crh.noaa.gov/lot/science/jul1395/jul1395.htm National Weather Service Central Region	Moderate Risk - Profile
Drought	One past occurrence in the County.	FEMA national map of drought potential	Described and considered low risk; therefore not profiled.
Earthquake	Possibly eight or more occurrences in the State. None of the earthquakes were in Lake County.	www.water.usgs.gov/pubs/fs-013-96/ USGS Fact Sheet Website (fs-013-96)	Described and considered low risk; therefore not profiled.
Expansive Soils	No indication of significant damage in the past.		Described and considered low risk; therefore not profiled.
Land Subsidence	No indication of significant damage in past.		Described and considered low risk; therefore not profiled
Avalanche			Not considered a threat; therefore not profiled.
Coastal Storm			Not considered a threat; therefore not profiled. Coastal storms are associated with oceans.
Hurricane	No events reported		Not considered a significant threat; therefore not profiled.
Tsunami	No events reported		Not considered a threat; therefore not profiled.
Volcano	No events reported		Not considered a threat; therefore not profiled.

The Plan also includes a capability assessment which identifies existing capabilities, resources, and opportunities for improvement that the County can use to address future impacts from hazards. Lake County, the Stormwater Management Commission (SMC), and the municipalities have a number of plans, ordinances, and programs that can help prevent or minimize possible future impacts of hazards and can be upgraded in coordination with this plan. Table 4-1 at the end of Section 4 discusses the communities'

Executive Summary

capabilities, including the types of plans, ordinances, GIS software, and types of maps for each of the participating communities

The Team established the goals for this planning effort. The goals were developed to reflect current community priorities, to be consistent with countywide planning efforts, and in consideration of the impact of each natural hazard that affects Lake County as a whole. The Committee participated in several exercises to outline the goals for this Plan. Overall, proactive and continuous efforts to reduce vulnerability, a good level of understanding of hazards and emergency and response capabilities of the communities, and an education of the public were the concerns of the Team.

The Team brainstormed the entire range of alternatives for activities that are applicable to Lake County considering the hazards, the vulnerabilities, the capabilities and the goals of this plan and developed alternative actions for the plan.

Each community prioritized the actions that apply to their jurisdiction or concurred with county-wide actions.

The Team identified the high priority actions and identified the appropriate agency to coordinate the actions. For all identified high priority hazards, the Plan will include actions to:

- Identify the number and type of existing structures, infrastructure and critical facilities at risk;
- Identify the number and type of future structures, infrastructure and critical facilities that could be at risk;
- Identify the potential dollar losses from vulnerable hazards;

Using the alternative actions described in Section Five, the Team identified those actions that the County and affected jurisdictions should implement. Considerations included the jurisdiction's ability to implement the actions, whether the actions were technically feasible, the cost/benefit of the actions, the support of the residents, and the support of the elected officials. The communities were asked to prioritize the high priority actions in two ways. The first way was within each hazard (Table 6-1A) and the second way was an overall ranking (Table 6-1B). The community participants ranked the high priority actions within each hazard alphabetically and ranked the overall high priority actions numerically.

The top ten high priority actions are presented on the following table.

Hazard	High Priority Actions	Rank
All Hazards	Public education/communication	1
All Hazards	Establish County natural hazard mitigation emergency response team	2
Tornado	Maintain/update ESDA Plans that determine response and recovery responsibilities	3

Executive Summary

Hazard	High Priority Actions	Rank
All Hazards	Establish an emergency response assessment team	4
All Hazards	Describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas	5
Flood	Improve capacity of drainage systems	6
Flood	Implement maintenance programs for drainage systems	7
Flood	Reduce Inflow and infiltration /sewer backups	8
Flood	Maintain compliance with the NFIP	9
All Hazards	Establish a health department emergency response assessment team	10

During the prioritization process, members of the Team were encouraged to consider actions that had a positive benefit-cost ratio and that were clearly implementable. A cost benefit review was completed on all actions. The estimated costs for the actions were broken down into high/medium/low. The estimated benefits are the product of the average annual benefit and the expected life of the structure or service. The same parameters used for the costs were used for the benefits. In addition, the cost and benefit for each action item by community was determined and identified as high, medium, or low, along with the person responsible for implementation, supporting agencies, potential funding sources, and the proposed timeframe for implementation. The Plan concludes with Section Seven, which outlines the plan maintenance, procedures for monitoring, evaluation and update of the Plan over a five-year planning horizon with continued public participation, and integration of post-disaster policies and procedures into this plan.



Lake County All Natural Hazards Mitigation Plan – 2012 Update Frequently Asked Questions (ANHMP FAQs) June 2012

1. What is the Lake County All Natural Hazards Mitigation Plan?

The Lake County All Natural Hazards Mitigation Plan (ANHMP) is a plan that addresses natural hazards that may impact Lake County, such as floods, severe summer storms, winter storms and tornadoes, and identifies activities that can be undertaken by both the public and the private sectors to reduce safety hazards, health hazards, and property damage caused by natural hazards. While the ANHMP was developed countywide, it is considered to be a “multi-jurisdictional plan.”

2. Why was the ANHMP developed?

Having an adopted mitigation plan allows Lake County and participating Lake County municipalities to be eligible for mitigation grant funds from the Federal Emergency Management Agency (FEMA). The ANHMP was developed to fulfill the federal mitigation planning requirements of Section 104 of the Disaster Mitigation Act of 2000 and the Stafford Act for funding under the FEMA Hazard Mitigation Assistance (HMA) grant programs. The ANHMP is also eligible for credit for communities that participate in FEMA’s Community Rating System (CRS) under the National Flood Insurance Program.

3. Who developed the ANHMP?

The ANHMP was developed through a mitigation planning committee that included Lake County, participating Lake County municipalities and other stakeholders, and through the assistance of a planning consultant. The mitigation planning committee (now called the Local Planning Committee or LPC) was established as a permanent advisory body to Lake County in 2006 and has been meeting annually.

4. Why update the ANHMP?

FEMA requires hazard mitigation plans to be updated and re-adopted every five (5) years.

5. What was the update “process”?

Our update process included four meetings of the LPC to review the ANHMP’s goals and action items, and the draft updated plan. We also requested information from municipalities regarding mitigation activities of the past five years. A draft of the updated ANHMP was made available for public review and a public hearing/meeting was held on September 22, 2011. Public comments were collected and IEMA and FEMA have reviewed and approved the plan. The County and participating municipalities must adopt the updated ANHMP. The final plan is available at:

<http://www.lakecountyiil.gov/Stormwater/FloodInformation/FloodHazardMitigation/Pages/ANHMP.aspx>.

A meeting to develop Annex 1 to the ANHMP was also held in May 2012 to include additional Lake County municipalities.

6. The ANHMP is considered multi-jurisdictional. Is this the same as “countywide”?

No, the ANHMP is *not* a countywide plan like the Lake County Stormwater Management Plan. FEMA allows for the multi-jurisdictional development of hazard mitigation plans. Each government agency must adopt and implement the ANHMP for its own purposes. The County Board adoption of the ANHMP is for unincorporated areas of the County. Each municipality must adopt the ANHMP for themselves.

7. How do we adopt the ANHMP?

By resolution. Communities have been provided with a sample adoption resolution and instructions on where to send a copy of the resolution for IEMA and FEMA’s records.

8. If we don’t adopt the 2012 ANHMP will our community is eligible for IEMA/FEMA disaster assistance following a disaster declaration for Lake County?

Yes. This ANHMP is for the mitigation grant purposes. It is not tied to disaster assistance. Recognize that often mitigation projects come to light following a disaster. It is prudent to have an adopted mitigation plan.

9. Who will implement the Mitigation Plan?

Each municipality, agency and institution that adopts the Mitigation Plan will implement the Mitigation Plan, according to the resolution passed, and *as resources (staff time and funding) become available*. Ideally, there will be some joint efforts, through the Mitigation Committee, with the County, municipalities and townships to implement mitigation actions. An example of a joint effort may be the development of common public information materials.

10. What are the types of mitigation grants available?

Planning grants and project grants. Examples of mitigation planning grants would be for the study of repetitive flood loss areas, or the evaluation of critical facilities to determine if they are disaster resistant. Examples of mitigation project grants would be for floodplain property acquisitions, or construction of a tornado shelter at a senior care facility. All plans and projects are funded 75% by FEMA and 25% by the community or agency.

11. How do we apply for a mitigation grant?

Mitigation grants are applied for through the IEMA. An online “eGrant” application is used. Communities can contact Ron Davis, the State Hazard Mitigation Officer at IEMA, at 217-782-8719 (ron.davis@illinois.gov) for more information.

12. What is the FEMA web site for hazard mitigation grants programs?

For more information about FEMA mitigation grant programs, or HMA, visit: <http://www.fema.gov/government/grant/hma/index.shtm>

Also, visit IEMA’s web site at:

<http://www.state.il.us/iema/planning/planning.htm>

13. How can I learn more about the Community Rating System (CRS)?

Information on the CRS can be found at FEMA’s web site: <http://www.fema.gov/business/nfip/crs.shtm>

14. Who do we contact about the ANHMP update?

Feel free to contact Susan Vancil of the SMC at svancil@lakecountyil.gov or 847-377-7714.

2012 Lake County All Natural Hazards Mitigation Plan

Plan Adoption Instructions

June 2012

The Lake County All Natural Hazards Mitigation Plan (ANHMP) has been approved by the Illinois Emergency Management Agency (IEMA) and the Federal Emergency Management Agency (FEMA) and it now must be adopted by the County and each municipality.

Adoption Instructions:

1. Download the final *2012 Lake County All Natural Hazards Mitigation Plan*, Executive Summary, and FAQs at:

<http://www.lakecountyil.gov/Stormwater/FloodInformation/FloodHazardMitigation/Pages/ANHMP.aspx>

2. Edit the “[Sample Municipal] RESOLUTION”, as appropriate, for your community. Make any desired changes, however what must stay is the first “BE IT RESOLVED”:

“that the Lake County All Natural Hazards Mitigation Plan, June 2012, is hereby adopted as an official plan of the [City/Village],”

3. Present the resolution to your Council or Board by October 31, 2012. You may choose if you’d like to provide the members with a copy of the full ANHMP or just the Executive Summary. The FAQs (updated for June 2012) might be helpful to the members.

4. Messages to emphasize to your Council or Board are:

- The ANHMP is a plan that makes us and Lake County eligible for mitigation grant funds from the FEMA. Grants funds can be applied for when a mitigation project is identified.
- Each municipality that adopts the ANHMP is to implement the parts of the ANHMP that apply to them *as resources (staff time and funding) become available*.
- “Available” means through our community’s existing budget (perhaps to become a Tree City USA or a StormReady Community) or through a mitigation grant from FEMA (for a specific mitigation project). If resources are not available, then implementation of an action item is not required. The goal is for implementation of all actions, but those that cannot be implemented will be reconsidered in the future 2017 update of the ANHMP.
- If there are parts of the ANHMP that we cannot implement (either because we choose not to or because we don’t have the resources), then there is no penalty or loss of FEMA eligibility. As long as our municipality stays in good standing with the National Flood Insurance Program, we will always have FEMA funds available to us.
- Again, the adoption of the ANHMP makes new hazard mitigation grant funds available to Lake County.

- Each municipality that adopts the ANHMP can apply to IEMA/FEMA for mitigation grants on their own. Ideally, there will be some countywide grants that the County will pursue, or perhaps a joint project between our municipality and the County. For example, public information activities or watershed studies.

5. Pass the resolution.

6. Send a copy of the adoption resolution to Lake County SMC.

Ms. Susan Vancil
Lake County Stormwater Management Commission
500 W. Winchester Road, Suite 201
Libertyville, IL 60048

e-mail: svancil@lakecountyil.gov

7. Implement the ANHMP and consider mitigation grant opportunities.

Should you have any questions, please don't hesitate to contact Susan Vancil at Lake County SMC (847-377-7714). Thank you!