

# Hazard Mitigation Plan

## Macon County, Illinois

Initial Stakeholder Meeting

February 22, 2012





# Introductions

---

Jim Root – Planning Lead  
Coordinator, Macon County EMA  
[jroot@maconcountyema.org](mailto:jroot@maconcountyema.org)

John Menninger, PE – Plan Consultant  
Stantec Consulting Services, Inc.  
[John.Menninger@stantec.com](mailto:John.Menninger@stantec.com)

# Introductions

---



## Local Participating Communities:

Macon County and Unincorporated Areas

## Incorporated Areas:

Village of Argenta

Village of Blue Mound

City of Decatur

Village of Forsyth

Village of Harristown

Village of Long Creek

City of Macon

City of Maroa

Village of Mount Zion

Village of Niantic

Village of Oreana

Village of Warrensburg



# Meeting Agenda

---

## Outline

1. Introductions
2. Plan and Meeting Goals
3. Hazard Mitigation Plan - Overview
4. Hazard Identification – Discussion
5. Stakeholder Data Collection
6. Schedule / Path Forward
7. Questions / Comments

# Goals

---



## Hazard Mitigation Plan Goal

1. Protect lives and property through identification of Macon County specific hazards and development of sound mitigation projects
2. Allows for Federal funding for mitigation projects.

## Today's Meeting Goal

1. Introduce stakeholders to the Hazard Mitigation Planning process and solicit input and feedback.
2. Identify the specific Hazards of Concern for the Plan.



# Hazard Mitigation Plan - Overview

---

## Primary Elements

1. Planning
2. Risk Assessment
3. Mitigation Strategies
4. Plan Review and Adoption
5. Plan Maintenance





# Hazard Mitigation Plan - Overview

---

Today's Meeting Starts the Planning Process

- Present Plan Elements
- Discuss Prioritized Hazards
- Provide Project Timeline





# Hazard Mitigation Plan - Overview

---

## Key Planning Tools

- 3 Stakeholder Coordination Meetings
- Website and Community Outreach
- Public and Stakeholder Involvement







# Hazard Mitigation Plan - Overview

---

## Role of the Planning Committee

- Maintain Awareness of the Process
- Gather Information
- Utilize Local Expertise
- Provide Documents and Data
- Perform Draft Plan Reviews

PLEASE  
SIGN IN





# Hazard Mitigation Plan - Overview

---

## Local Jurisdiction Participation Requirements

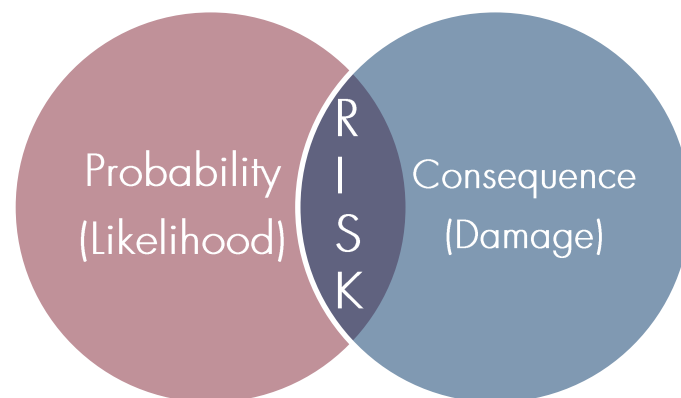
- Attend Planning Meetings
- Provide Documents and Data
- Identify Critical Facilities
- Submit List of Mitigation Actions
- Review and Comment on Plan
- Formally Adopt Plan



# Hazard Mitigation Plan - Overview

## Risk Assessment

- Identify County Specific Hazards (Today)
- Review History of Occurrences
- Assess Vulnerabilities
  - Population
  - Critical Facilities
  - Economic





# Hazard Mitigation Plan - Overview

---

## Mitigation Strategies

- Develop SMART Goals and Activities
  - Specific
  - Measurable
  - Attainable
  - Relevant
  - Iime-Phased



# Hazard Mitigation Plan - Overview

## Mitigation Strategies

- Develop Goals and Objectives
- Develop Alternatives and Costs
- Create Evaluation Criteria
- Prioritize Projects





# Hazard Mitigation Plan - Overview

## Plan Review and Adoption

- Draft to be Reviewed by Committee and Public
- Incorporate Comments
- Submitted to State and FEMA for Review
- Adoption by Local Municipalities





# Hazard Mitigation Plan - Overview

---

## Plan Maintenance

- Implement Mitigation Strategies
- Perform Annual Meeting and Review Progress
- Update at Least Every 5 Years



# Hazard Mitigation Plan - Overview

---

## Mitigation Examples

- Public Education
- Early Warning Systems
- Levees / Floodwalls
- Tornado Shelters
- Property Buyouts

**COPE RED™**





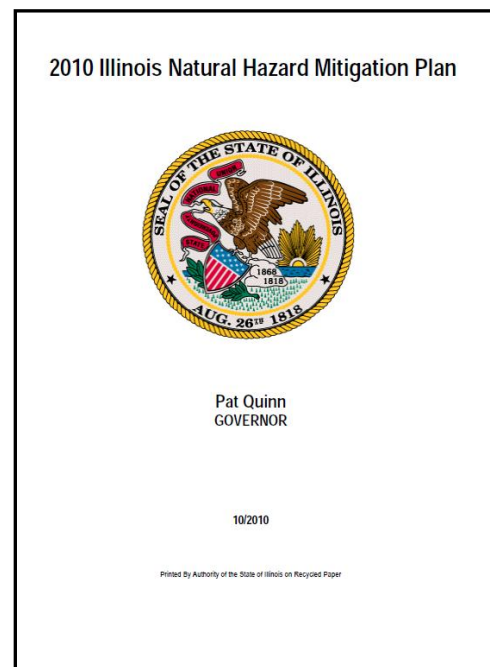


# Hazard Identification - Discussion

---

## Primary Hazards – Illinois State Hazard Mitigation Plan

1. Severe Storms
2. Floods
3. Severe Winter Storms
4. Drought
5. Extreme Heat
6. Earthquake
7. Tornado





# Hazard Identification - Discussion

## Macon County Hazard Vulnerability County Hazard Ratings

Severe Storms	Severe
Floods	High
Severe Winter Storms	Severe
Drought	High
Extreme Heat	High
Earthquake	Elevated
Tornado	Elevated

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



# Hazard Identification - Discussion

## Macon County Hazard Vulnerability Flood Insurance Policies and Data

Community	Flood Policies	Past Claims No. / Tot \$	Repetitive Loss Properties
Village of Argenta*	0	0	0
Village of Blue Mound	0	0	0
City of Decatur	152	138/899,499.05	11
Village of Forsyth	18	6/28,430.99	0
Village of Harristown*	0	0	0
Village of Long Creek	1	0	0
Macon County	44	34/342,392.68	0
City of Macon*	0	0	0
City of Maroa*	0	0	0
Village of Mount Zion	3	0	0
Village of Niantic*	0	0	0
Village of Oreana*	0	0	0
Village of Warrensburg*	0	0	0
Totals	218	178/\$1,270,322.72	11

\* Indicates Non-Participation in the NFIP



# Hazard Identification - Discussion

## Macon County Hazard Vulnerability Reported Weather Events

Event Type	No. Events	Deaths	Injuries	Damages
Blizzard	2	0	0	\$100,000
Dense Fog	1	0	0	\$0
Excessive Heat	9	10	0	\$0
Extreme Cold	3	3	0	\$0
Floods	29	0	1	\$50,155,000
Frost/freeze	1	0	0	\$0
Hail	88	0	0	\$0
High Wind	13	1	4	\$177,000
Thunderstorms	165	0	12	\$3,365,000
Winter Storm	27	7	35	\$500,000
Totals	338	21	52	\$54,297,000
National Climatic Data Center Reported Events Since 1956				



# Hazard Identification - Discussion

## Macon County Hazard Vulnerability Disaster Declarations

Event Type	Year	Category	Damages
Tornadoes	1974	Maj. Disaster	\$589,571
Severe Storms / Flooding	1974	Maj. Disaster	\$32,904,477
Severe Storms / Flooding	1979	Maj. Disaster	\$34,840,105
Severe Storms / Flooding	1983	Maj. Disaster	
Severe Storms / Tornadoes / Flooding	1990	Maj. Disaster	
Severe Storms / Tornadoes / Flooding	1995	Maj. Disaster	
Severe Storms / Tornadoes	1996	Maj. Disaster	\$4,107,388
Winter Storm	1999	Emergency Declaration	\$42,048,452
Severe Storms / Tornadoes / Flooding	2002	Maj. Disaster	
Hurricane Katrina Evacuation	2005	Emergency Declaration	\$5,956,516
Winter Storm	2007	Maj. Disaster	\$28,399,250
Totals	11		\$148,845,759

# Hazard Identification - Discussion

---

## Additional Possible Hazards of Concern

1. Dam Failure
2. Expansive Soils
3. Levee Failure
4. Land Subsidence (Mines)
5. Landslide
6. Wildfire
7. Others?





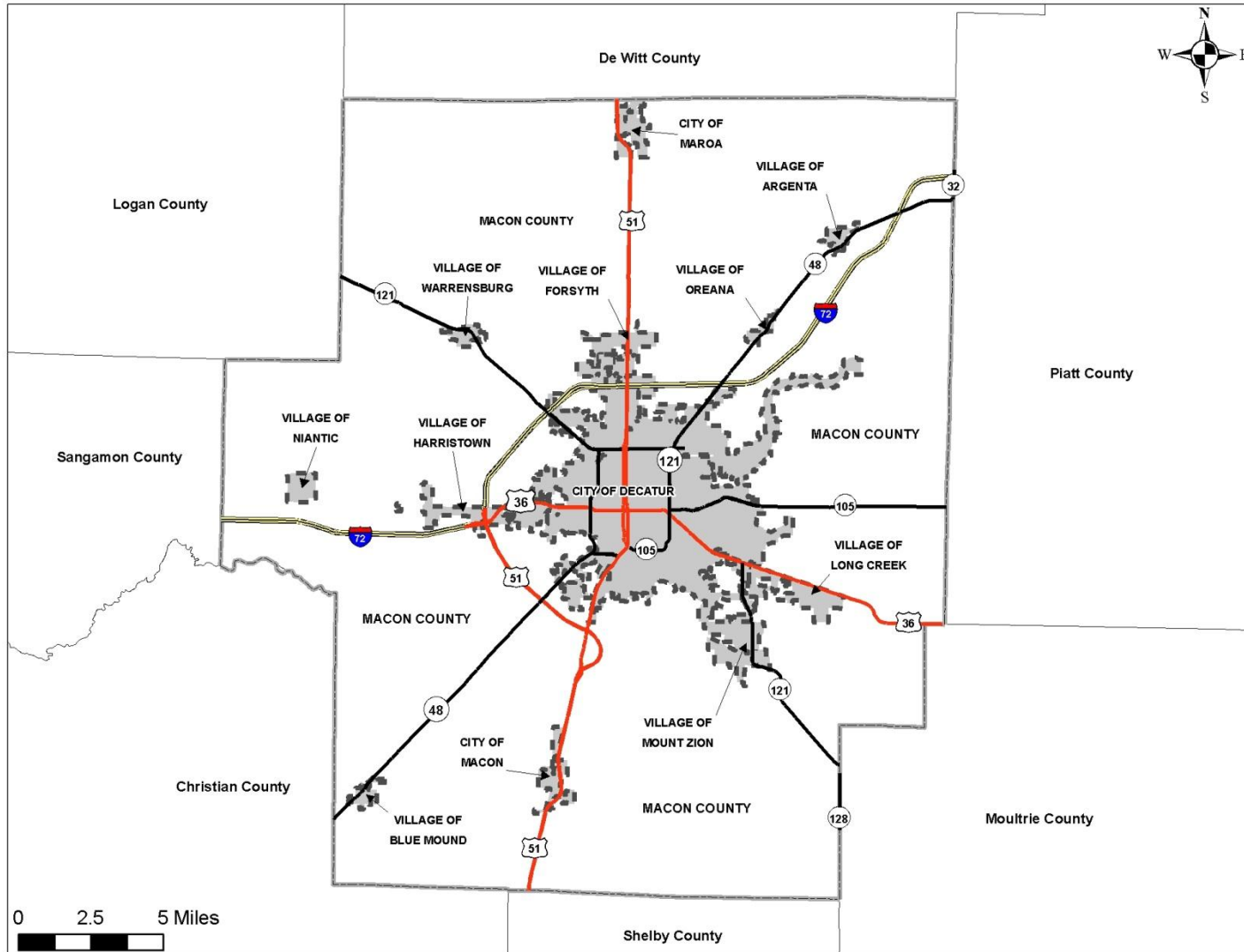
# Stakeholder Data Collection

---

What We Need from You:

1. Data on Past Historic Events
2. Location of Critical Facilities
3. Regulatory and Planning Documents
4. Existing and Planned Mitigation Projects

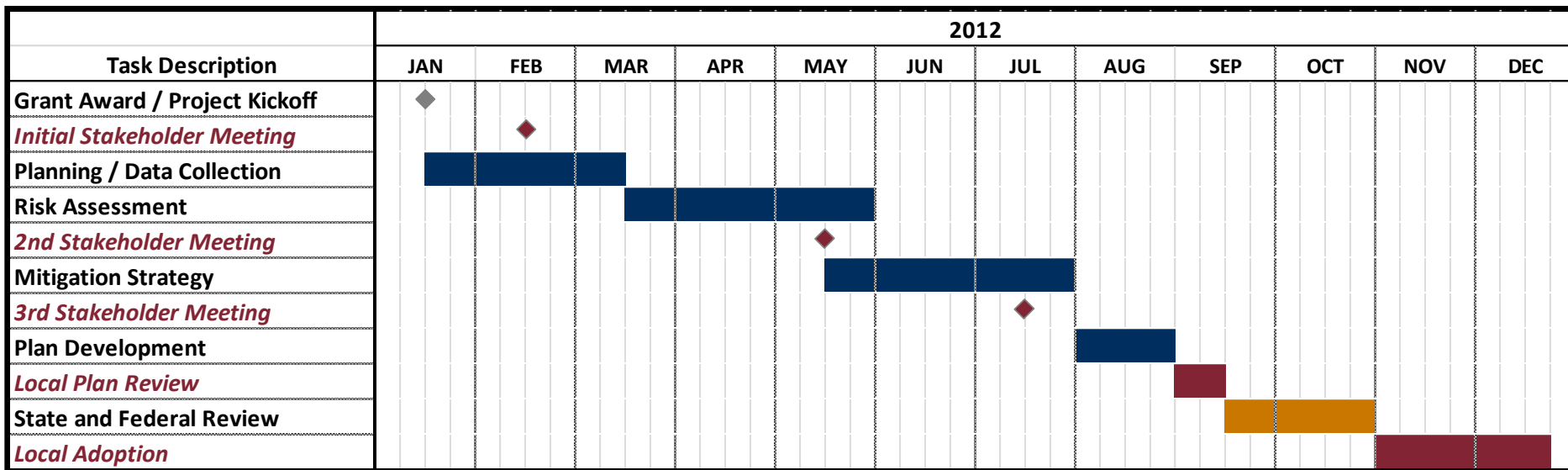
# Stakeholder Data Collection







# Schedule and Next Steps





# Questions

---

Jim Root – Planning Lead  
Coordinator, Macon County EMA  
[jroot@maconcountyema.org](mailto:jroot@maconcountyema.org)

John Menninger, PE – Plan Consultant  
Stantec Consulting Services, Inc.  
[John.Menninger@stantec.com](mailto:John.Menninger@stantec.com)