



POLK COUNTY HAZARD MITIGATION PLAN UPDATE

Meeting 5: Phase II Kick-off

December 3, 2018

Agenda for Today



- Hazard Mitigation Planning Overview
- Phase I Review
- Timeline of Phase II
- Develop 2019 Polk County HMP Goals - *Activity*
- Overview of Developing New Mitigation Actions
- “Home” work

Why is this Plan being Updated?

- The Disaster Mitigation Act of 2000 requires all local governments and special districts to develop a plan to assess their risks to hazards and identify actions that can be taken in advance to reduce future losses.
- The law requires Hazard Mitigation Plans to be updated every five years in order for jurisdictions to maintain eligibility for certain FEMA Hazard Mitigation Assistance grants.
- Polk County's countywide FEMA approved Hazard Mitigation Plan was last updated in 2014. New plan due July 2019.

The Plan



Multi-jurisdictional plan

- General information that applies to all jurisdictions:
 - *Common planning process, hazards, goals, collaborative actions, plan maintenance process.*
- Specific information that varies by all jurisdictions
 - *Geographically specific hazards; unique risks; specific goals and actions; individualized responsibility for participation and adoption.*

Assessing Risk: Identifying Hazards

Hazard: A potentially damaging physical event, phenomenon or human activity that may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation.

The risk assessment process **identifies and profiles relevant hazards** and **assesses the exposure of lives, property, and infrastructure** within Polk County, Iowa to these hazards. The goal of the risk assessment is to **estimate the potential loss in the planning area**, including loss of life, personal injury, property damage, and economic loss, from a hazard event.

The risk assessment process **allows communities in the planning area to better understand their potential risk to the identified hazards and provides a framework for developing and prioritizing mitigation actions** to reduce risk from future hazard events.

Results from Regional Risk Assessment

Hazard	Risk Score
Winter Storm	2.7 *
Tornado	2.7 *
Thunderstorm/Lightning/Hail	2.7 *
Flash Flooding	2.7 *
River Flooding	2.6 *
Windstorm	2.5 *
Structural Fire	2.4 *
Transportation Incident	2.4 *
HAZMAT Incident	2.3 *
Infrastructure Failure	2.3
Extreme Heat	2.3 *
Earthquake	2.0
Levee Failure	2.0 *
Dam Failure	2.0
Drought	2.0
Human Disease	1.9 *
Grass/Wildland Fire	1.8
Sinkholes/Landslide	1.8 *
Expansive Soils	1.7
Animal/Plant/Crop Disease	1.7

Score	Risk Level
1.0 - 1.9	Low
2.0 - 2.9	Moderate
3.0 - 4.0	High

Scoring weights:

Probability: 45%

Severity: 30%

Warning Time: 15%

Duration: 10%

* Denotes localized high level risks

Hazard Profile Updates

- Regional risk assessment
- Hazard description
- All data tables and maps, with additions in some profiles
 - Extent, previous occurrences, hazard caused insurance claims, extremes, vulnerabilities, potential losses, future development, etc.
 - Regional and local considerations
- Community and health impacts
- Local risk assessment
- Further Consideration: Climate change



Note: Modified from U.S. Geological Survey and Oregon Partnership for Disaster Resilience Models.

Timeline

Phase II: Mitigation Strategies & Adoption

- **Determine mitigation goals – Today**
- Update previous mitigation action progress – December/January
- Develop new mitigation action – December/January
- Finalize and prioritize mitigation action – January 2019
- Final HMP Draft Presented – Meeting #7 – February 25, 2019
- Public comment period: February 25 – March 27, 2019
- Approval and adoption by cities, PCEM, IHSEMD, and FEMA – April/May



Drafting New Goals

- **Goals** are general guidelines that explain what you want to achieve. Goals are defined before considering how to accomplish them so that they are not dependent on the means of achievement. They are usually long-term, broad, policy-type statements.
- **Mitigation Actions** are specific actions that help achieve goals.

2013 State of Iowa HMP Goals

1. Protect the health, safety and quality of life for Iowa citizens while reducing or eliminating property losses, economic costs, and damage to the natural environment caused by a disaster.
2. Ensure government operations, response, and recovery are not significantly disrupted by disasters.
3. Expand public awareness and encourage intergovernmental cooperation, coordination and communication to build a more resilient community against all hazards.

2014 Polk County HMP Goals

1. Protect the public health, safety, and welfare by increasing public awareness of hazards and by encouraging collective and individual responsibility for mitigating hazard risks.
2. Improve capabilities, coordination, and opportunities at municipal and county levels to plan and implement hazard mitigation projects, programs, and activities, *including incorporation of lessons learned from previous events and exercises.*
3. Improve data collection, use, and sharing to reduce the impact of hazards.
4. Protect the most vulnerable populations, buildings, and critical facilities through the implementation of cost-effective and technically feasible mitigation actions.

What changes should be made to these goals for 2019-2023?

1. Protect the public health, safety, and welfare by increasing public awareness of hazards and by encouraging collective and individual responsibility for mitigating hazard risks.
2. Improve capabilities, coordination, and opportunities at municipal and county levels to plan and implement hazard mitigation projects, programs, and activities, *including incorporation of lessons learned from previous events and exercises.*
3. Improve data collection, use, and sharing to reduce the impact of hazards.
4. Protect the most vulnerable populations, buildings, and critical facilities through the implementation of cost-effective and technically feasible mitigation actions.

Activity: Discuss with those around you any changes for these goals in this update.

VOTE ON 2019 UPDATE GOALS

Next Step: Developing Mitigation Actions

- Review 2014 HMP Community Mitigation Actions
- Update progress
- Determine new mitigation actions for 2019 HMP

Keep in mind:

- *Risk assessment & Phase I planning process discussions & outcomes*
- *Community goals and capabilities; regional and local plans and initiatives*
- *State hazard mitigation goals & priorities*
- *Projects will be scored based on STAPLEE matrix*
- *FEMA Hazard Mitigation Assistance eligible activities*
- *Use MPO staff or other subject matter experts as a resource*

State of Iowa High Priority Actions

- Long-term successes take priority in project selection:
 - Local hazard mitigation planning
 - Critical facilities protection
 - Infrastructure drainage
 - Electrical retrofit
 - Property acquisition/relocation/elevation
 - Safe rooms
 - NOAA weather radio transmitter installation
 - Trainings, workshops, mitigation related legislation

STAPLEE Mitigation Action Scoring

S	Social	Is the proposed measure acceptable to the community? Will the measure treat all individuals and groups equitably? Will the measure result in an inadvertent negative treatment of one or more segments of the population?
T	Technical	Will the measure reduce losses in the long-term? Is the measure a whole or partial solution to the problem? Does the measure solve the problem instead of the symptoms?
A	Administrative	Do the agencies responsible for implementing the measure have the skill, experience, knowledge, ability, staffing, funding, and maintenance capability to do so?
P	Political	Does the measure have the support of elected officials, public or private agencies, and the general public?
L	Legal	Does the jurisdiction responsible for implementing the measure have the legal authority to do so? Is there a legal basis (local code/ordinance, state law, or federal law] for the measure?
E	Economic	Do the measure's benefits exceed the costs? Does the measure contribute to the overall economic goals of the community? Are there current sources of funds to implement the measure? Will the measure impose an increased burden on the tax base or the local economy?
E	Environmental	How does the measure impact the natural environment? Does the measure comply with local, state, and federal environmental laws? Is the measure consistent with current environmental goals?

STAPLEE Worksheet		
Name of Jurisdiction:		
Action or Project		
Action/Project Number:	Insert a unique action number for this action for future tracking purposes This can be a combination of the jurisdiction name, followed by the goal number and action number (i.e. Alleman 1.1)	
Name of Action or Project:		
Mitigation Category:	Prevention; Structure and Infrastructure Projects; Natural Systems Protection; Education and Outreach; Emergency Services	
STAPLEE Criteria		Score
Evaluation Rating		
Definitely YES = 3 Maybe YES = 2 Probably NO = 1 Definitely NO = 0		
S: Is it Socially Acceptable		
T: Is it Technically feasible and potentially successful?		
A: Does the jurisdiction have the Administrative capacity to execute this action?		
P: Is it Politically acceptable?		
L: Is there Legal authority to implement?		
E: Is it Economically beneficial?		
E: Will the project have either a neutral or positive impact on the natural Environment ?		
Will historic structures be saved or protected?		
Could it be implemented quickly?		
STAPLEE SCORE		
Mitigation Effectiveness Criteria	Evaluation Rating	Score
Will the implemented action result in lives saved?	Assign from 5-10 points based on the likelihood that lives will be saved.	
Will the implemented action result in a reduction of disaster damages?	Assign from 5-10 points based on the relative reduction of disaster damages.	
MITIGATION EFFECTIVENESS SCORE		
TOTAL SCORE (STAPLEE + Mitigation Effectiveness)		
<input type="checkbox"/> High Priority (30+ points) <input type="checkbox"/> Medium Priority (25 - 29 points) <input type="checkbox"/> Low Priority (<25 points)		
Completed by (Name, Title, Phone Number) _____		

“Home” work



- Prior to Meeting 6 on January 15th:
 - Complete mitigation action workbook and submit to MPO
 - 2014 Mitigation Action Progress Summary
 - » Mitigation Action Completion/Continuation/Deletion Details
 - 2019 Mitigation Action Implementation Strategy
 - » Details of new or continuing projects; Columns blacked out will be filled in by MPO staff
 - This sheet and all HMP meeting presentations can be found on MPO’s website.
- During Meeting 6 we will finalizing the drafting of mitigation projects prior to MPO STAPLEE scoring.

2014 Mitigation Strategy Progress Summary

Jurisdiction	Completed Actions	Continuing Actions (ongoing or modify)	Deleted Actions
Adel	3	10	1

Completed Actions (Include 2014 Action ID)	Completion Date	Cost	Funding Source	Partners	Office Responsible	Obstacles to Implementation
Adel 1	10/1/16	\$ 638,564.00	Capital Improvement Program	ISWEP	Public Works	Funding & Policy

Deleted Actions (Include 2014 Action ID)	Reason for Deletion
Adel 1: Implement a stormwater utility to maintain drainage infrastructure.	No political support at this time.

Continuing Actions (Include 2014 Action ID)	Progress Towards Completion	Timeline for Completion
Adel 4	Funding secured; construction to begin in Spring 2019	1 year

QUESTIONS?

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