APPENDIX B: PLANNING PROCESS DOCUMENTATION

The following is a compilation of Polk County Multi-Jurisdictional Hazard Mitigation Plan planning process documentation. It contains: Invitations to participate in the planning process, agendas and meeting minutes, Power Point presentations, meeting sign-in sheets, and affidavits of publication for publications in the Des Moines Register.

Original copies of each document can be requested from Polk County Emergency Management.



420 Watson Powell Jr. Parkway, Suite 200

Des Moines, Iowa 50309 Phone: 515.334.0075 Email: info@dmampo.org www.dmampo.org

May 7, 2018

Subject: Polk County Multi-Jurisdictional Hazard Mitigation Plan Update

Dear Partner,

As you may know, Polk County has a countywide FEMA approved Hazard Mitigation Plan. This plan was developed in accordance with the Disaster Mitigation Act of 2000 which 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.

The Polk County Multi-Jurisdictional Hazard Mitigation Plan must be updated by July of 2019. As with the last update, the planning process requires all school districts to participate in the planning process in order to be eliqible for hazard mitigation funding.

The hazard mitigation planning process is heavily dependent on the participation of representatives from local government agencies and departments, the public, and other stakeholder groups. A Hazard Mitigation Planning Committee will be formed to support this project and will include representatives from the County, cities, school districts, watershed management authorities, and other local, state, and federal agencies in or that serve Polk County.

It will be essential for your jurisdiction to send at least one individual to the Kickoff Meeting listed below. At this meeting, we will discuss the benefits of developing a hazard mitigation plan, the project schedule, and all of the hazards that affect Polk County, such as tornadoes, wildfires, floods, winter storms, hazardous materials, and more. Polk County requests your assistance in forwarding this invitation to others in your agency or jurisdiction that can benefit from this process. Appropriate persons to be a part of the planning committee include: County/City Clerks, Elected Officials, Public Works Directors, Floodplain Managers, County/City Planners, Economic Development Directors, GIS Staff, School Principals, School Facilities Directors, Watershed Coordinators, and School Superintendents.

The Hazard Mitigation Planning Committee will meet four times during Phase One of the planning process, all of these meeting dates, time, and location are listed below.

Kickoff Meeting: May 21st, 2018 Meeting 2: June 18th, 2018 Meeting 3: July 16th, 2018 Meeting 4: August 27th, 2018

All meetings will begin at 2pm at Polk County Emergency Management Agency's Office, 1907 Carpenter Avenue – Des Moines, Iowa 50314 in Room C11.

Please RSVP to these meetings with the names and positions of the attending representatives to Allison Riley <u>ariley@dmampo.org</u> or (515) 334-0075.

Polk County Emergency Management has hired the Des Moines Area Metropolitan Planning Organization (DMAMPO) to manage Phase One of the plan update. DMAMPO will facilitate the planning process, collect necessary data, perform the risk assessment, and complete the initial portions of the plan document. However, to successfully complete this project and ensure your organization is eligible for FEMA hazard mitigation assistance funding, we need your participation and input.

As part of this initial step in the planning process we will review and incorporate appropriate information from existing plans, studies, reports, and technical information. Attached is a spreadsheet that we request your jurisdiction complete regarding this initial data request. *Please return one copy per jurisdiction on or before the Kickoff meeting on May 21st to Allison Riley (ariley@dmampo.org).* Attached is a PDF copy of the community profile section (p. 13-81) of the current plan, please reference your jurisdictions previous profile for guidance. If you have questions, please feel free to reach out to the Allison Riley.

Thank you for your attention and responses to this important project. We look forward to working with you.

Sincerely,

Allison Riley
Associate Planner, Des Moines Area MPO



420 Watson Powell Jr. Parkway, Suite 200

Des Moines, Iowa 50309 Phone: 515.334.0075 Email: info@dmampo.org www.dmampo.org

Polk County Multi-Jurisdictional Hazard Mitigation Plan Update

Kick-off Meeting May 21, 2018 – 2pm

AGENDA:

Meeting start time: 2:01

1) INTRODUCTIONS

Attendees were asked to provide...

- Name
- Organization & Role
- Did you participate in the last HMP update?
- What hazard would most profoundly affect your community? OR What hazards is your community least prepared for?

Responses:

- Scott Atzen (Public Works Director, City of Altoona) Did not participate, Severe weather and Active shooter potential
- Greg Stallman (Chief of Police, City of Altoona) Did not participate; Active shooter
- Drew Barden (Iowa Department of Public Health) Did not participate; Disease
- Matt Greiner (Public Works Director, City of Johnston) Did not participate; Severe weather or flooding
- Jim Clark (Fire chief, Cities of Johnston and Grimes) has participated in others but not an update for Polk county specifically; severe weather or flooding
- Dillon Lundy (Street Projects Manager, City of Grimes) did not participate; severe weather or tornados, flooding
- Steve Nolte (City Council, City of Elkhart) did not participate; not prepared for train derailments
- Jerry Holt (Fire Chief, City of Urbandale) did participate; severe weather most common, lease prepared for active shooter
- Scott Urbandale fire department, did not participate, severe weather or active shooter
- Lindsey Williams (Assistant City Administrator, City of Polk City) did not participate, severe weather, active shooter.

- Pam Rosa (Safety Specialist, Des Moines Public Schools) did participate, tornado identified threat for last update, concerned about threat of active shooter
- Steven Brown (District Chief, Des Moines) Des Moines, did participate
- Jim Sanders (City Administrator, City of Johnston) did participate, flooding is biggest threat
- Dave (Comm. Dev. Director, City of Johnson) did participate, severe weather
- Aaron Greiner (GIS Manager, City of Des Moines) did not participate directly (but indirectly by providing data); flooding
- Adam Prilipp (Civic Engineer, City of Des Moines) flooding related threats
- Norm Bormann (Des Moines Catholic Diocese) school and church safety, did not participate
- Cody Christensen (PDC Administrator, City of Des Moines) did participate, downtown fires, flooding *events downtown)
- Phil (community development director) Least prepared for a tsunami
- Johnathon Gano (Public Works Director, City of Des Moines) did not participate; tornados
- Brad Rose (Athletic Director for Valley High School, WDMCS) participated by providing info. about tornado shelters; severe weather, active shooter
- Rick Roe (City of Clive) did participate, flash flooding, tornado, active shooter
- Doug Otlendike (Community Development Director, City of Clive) did participate; flash flooding has biggest impact, petroleum tank farm is concerning being hear a creek
- George Smith (Director of Buildings and Grounds, Johnston Community Schools) what if's, practicing beforehand
- Bruce Amendt (Johnston schools) for schools active shooter is most threatening
- Bret (Planning Development Manager, Polk County) did not participate, flooding
- Jennifer Ellison (Planner, Polk County) did not participate, flooding
- Amanda Grutzmacher (Planner/GIS specialist, City of Clive) did not participate, flooding
- Josh Swanson (WMA Coordinator, Polk SWCD) flooding
- Zach (Polk County) intentional threat, chemical issues, did not participate
- Tracey (Polk County Emergency Management) severe weather being ignored/people not taking warning seriously
- Randy Carroll (Director of Buildings and Grounds, North Polk Schools) did participate, active shooter
- *Inaudible* -- Flooding and active shooter
- Jamie Xayavong (Acting Fire Chief, City of Pleasant Hill) active shooters
- Mark (City Council, City of Pleasant hill) manmade threat
- Dave Burgess (Mayor, City of Windsor Heights) severe weather and flooding
- Derek Meyer (PD Captain, City of Windsor Heights) Did not participate
- Sheilah Lizer (Building and Zoning, City of Windsor Height) have participate in HMP but not for Polk County, flooding
- *Inaudible* (Windsor heights) did not participate; storm water
- John Lins (Des Moines Water Works) –did participate, biggest threat is harmful algae blooms
- Steve Bass (Superintendent, UCSD) did participate, active shooters
- John (Grounds Keeper) did not directly participate but helped provide info, active shooter
- Joe did participate, fires, least prepared for active shooter

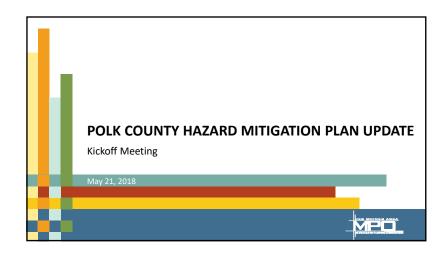
- Jerry Loghry (Corporate Security & Safety Manager, EMC Insurance Co.)
- **2) PRESENTATION**: Overview of Hazard Mitigation Planning Allison Riley, DMAMPO (Power Point slides attached).
- 3) WRAP UP/FINAL DISCUSSION

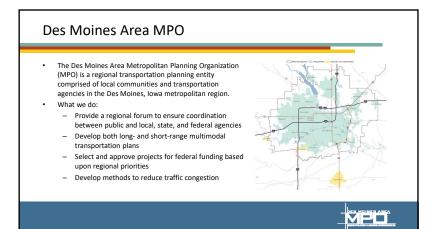
Questions:

- Timeline for when forms are due. ASAP. June 18th; but can let us know if they need more time.
- Last time we focused on natural disasters. Will focus outside of natural disaster. Is up to group. Hearing differently now, we can include different hazards. Up to planning team to decide what we want to tackle.
- Doug Ollendike. Few that are CRS communities; provides direct points. Provided 75% amount of points. Can we structure it so we can get more points? Can have conversation about it. AJ: Can use this to better leverage for communities

Meeting end @ 2:32

Next Meeting: June 18th, 2018





Introductions

- Name
- Organization & Role
- Did you participate in the last HMP update?
- What hazard would most profoundly affect your community?

 OR
- What hazards is your community least prepared for?



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.



What is Mitigation Planning?

Mitigation: sustained actions taken to reduce or eliminate long-term risk to life and property from hazards.

- Protect public safety and prevent loss of life and injury.
- Reduce harm to existing and future development.
- Prevent damage to a community's unique economic, cultural, and environmental assets.

- FEMA Local Mitigation Planning Handbook



What is Mitigation Planning?

- It aims to:
 - Analyze Risk
 - Reduce Risk
 - Insure Against Risk
- It is actionable, meaning the end result is a written document that has:
 - Specific Projects
 - Policy Recommendations
 - Actions for each jurisdiction



What is Mitigation Planning?

- Mitigation actions are implemented to reduce disaster damages:
 - Outreach programs that increase risk awareness
 - Projects to protect critical facilities
 - Removal of structures from flood hazard areas



Importance & Benefits of Mitigation Planning

- The unpredictability of storms makes it difficult to predict their human and financial consequences.
- The number of disasters each year is increasing but only 50% of events trigger Federal assistance.
- Having a plan in place before the next disaster is the most effective way to reduce harmful impacts.
 - Identifies policies, actions, and tools that will result in the reduction of risk.





Importance & Benefits of Mitigation Planning

- Reducing the impact of such events also reduces need for disaster relief.
- FEMA estimates that every \$1 of FEMA funds used towards hazard mitigation prevents \$4 in losses.
- The Disaster Mitigation Act of 2000 makes the jurisdictions that participate eligible for FEMA funds:
 - Flood Mitigation Assistance
 - Pre-Disaster Mitigation Assistance
 - Hazard Mitigation Grant Program



Completing Plan

- · Plan update:
 - Review 2014 Polk County Hazard Mitigation Plan to determine which information is remains relevant and what needs to be changed.
 - Provide comments in new plan based on changes from old 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.



Completing Plan

- The plan follows FEMA's prescribed planning process. Its 4 main elements include:
 - Organize resources
 - Assess risks
 - Write mitigation strategy
 - Implement plan





Organize Resources

- Determine which jurisdictions and organizations will participate and who will be the representatives involved.
- · Establish what information is needed:
 - Opinions
 - Background data
 - Hazard data
 - Asset data
 - Information on capabilities and local planning resources.
- Outline of plan structure and public participation process.
- · Draft community profile for the planning area.



Community Participation

- Representation from each jurisdiction during meetings.
- Provide insight and comments during planning meetings.
- Complete all surveys and planning activities as relevant to you.
- Assist with data request.



Benefits of Community Participation

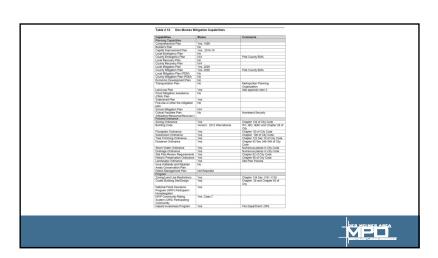
- Your ideas, insights, and information are heard and influence plan to make it better.
- Participation usually leads to buy-in for the plan implementation.



Initial Surveys & Data Collection

- · First up:
 - Planning capabilities: One Rep per jurisdiction fills out with comments from others.
- Requests to come:
 - Community services and infrastructure: One rep per jurisdiction fills out with comments from others.
 - Provide maps and related data as requested.





Next Meetings

Meeting 2: June 18th, 2018
 Meeting 3: July 16th, 2018

• Meeting 4: August 27th, 2018

2:00pm at Polk County Emergency Management Agency's Office 1907 Carpenter Avenue, Room C11 Des Moines, Iowa 50314



Contact Information

Allison Riley, Associate Planner ariley@dmampo.org 515-334-0075

Andrew Collings, Senior Planner acollings@dmampo.org 515-334-0075



Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Kickoff Meeting May 21, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Kickoff Meeting May 21, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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420 Watson Powell Jr. Parkway, Suite 200

Des Moines, Iowa 50309 Phone: 515.334.0075 Email: info@dmampo.org

www.dmampo.org

Polk County Multi-Jurisdictional Hazard Mitigation Plan Update

Meeting #2 June 18th, 2018 – 2pm

AGENDA:

Meeting started: 2:03pm

1) REMARKS FROM DIRECTOR MUMM

2) INTRODUCTIONS

City of Des Moines - Permit, new Polk county FEMA flood map

Community Development of Des Moines - Levee systems up to standards

City of Des Moines, levee and floods

Fire chief, West Des Moines, growing community

Joe, west des Moines, growth in our community

Building official city of West Des Moines, flood plain

Matt Noble, change legislation at federal level

Increasing development

City of Altoona, growing community

Chief of police in Altoona, elementary growth

Jones, mayor of Alleman, slow but continued growth

George smith, Johnston schools, different levels of security for active shooter, vehicle

Bruce, super intendent of Johnston, growth/building modifications

Kurt bailey, engineer, changing technology

Scott, Urbandale fire department, issues with growth

Jerry, Urbandale Fire, growth and role succession

City of Johnston assistant to grounds, new building in two years

Vernon, Des Moines water work, maintaining water supply for growing metro Mitchellville, verge of growth

Karla, city of Urbandale HR, age edible, eoc, unemployment work, change in admin enroll, having different climate

Matt Greiner, public works, losing institutional knowledge

Altoona • Ankeny • Bondurant • Carlisle • Clive • Dallas County • Des Moines • DART Grimes • Johnston • Mitchellville • Norwalk • Pleasant Hill • Polk City • Polk County Urbandale • Warren County • Waukee • West Des Moines • Windsor Heights

John, city of Urbandale, support services, everything echoed

Steve, Des Moines fire, downtown, homeless population

Eric brown, conservation, park superintendent, popularity of parks, more campers, influx of people

Rick rose, city of Clive, regional growth, city of Clive

Community devilment city of Clive, regional consideration for water manage

Des Moines public works, separation of

Adam smith, Des Moines public works, aging infrastructure

LEPC, the security upgrades, adding chemicals of interest, trying to leave with new additions/aging building

Franny, emergency management

Amanda Brown, conservation district, water quality

Jeff, city of Windsor heights, recruitment and retention

Brenda, mercy emergency, what effects outside of hospital affects us

Technology changes

Dave, Bondurant, continued growth,

Jamie, pleasant hill fire, interim chief, growing community

John wise, Urbandale schools, district growth

Training of future administrator

Polk county health department, biological terrorism

Joe Sullivan, Red Cross, being as prepared as we can for next disaster

City of Altoona, growth – sewer and water

Allison, making sure transportation is reliable for all people (not leaving anyone behind)

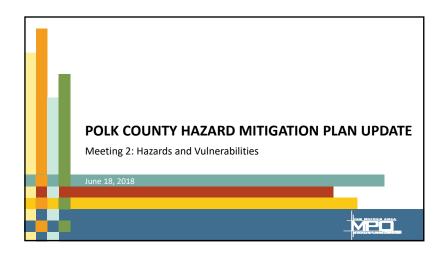
3) PRESENTATION: Assessing Risk – Allison Riley, DMAMPO

- a. Additional Consideration
- b. Climate Change
- c. Any others?
 - i. Building falls down? → Structural failure
 - ii. Cyber issues // vulnerabilities on infrastructure
 - 1. Should be included in terrorism?
 - iii. Terrorism, active shooter
 - iv. Water quality (E.coli exposure)?
- d. Activity Assessing Risk

4) WRAP UP/FINAL DISCUSSION

Meeting concluded: 3:27pm

Next Meeting: July 16th - 2pm - Polk County Emergency Management - 1907 Carpenter Ave



Introductions

- Name
- Organization & Role
- What is one change over the next 5 years in your jurisdiction that will affect your position on staff?



Why is this Plan being Updated?

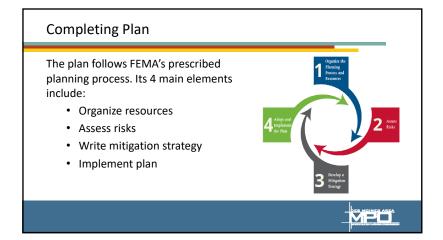
- The Disaster Mitigation Act of 2000 requires all local governments and special districts to develop a plan to assess their risks to hazards and identify actions that can be taken in advance to reduce future losses.
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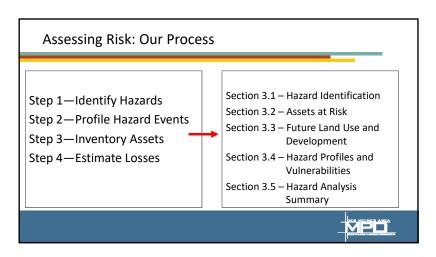


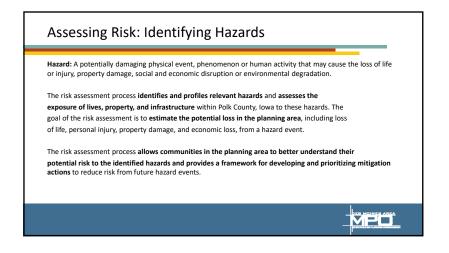
Completing Plan

- Plan update
 - Review 2014 Polk County Hazard Mitigation Plan to determine which information is remains relevant and what needs to be changed.
 - Provide comments in new plan based on changes from old 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: Additional Consideration

- Climate Change
 - Heavy Precipitation and Flooding
 - Increase in extreme heat days
 - Drought & humidity
- Effects agriculture, human health, air pollution, tornadoes
- Any others?





Today's Activity – Assessing Risk

- Working with the representatives from your community, please complete the worksheet provided
- On the first column: Mark an 'X' next to hazards that have the potential to affect your community
- Following Columns: Score the Probability, Magnitude/Severity, Warning Time, and Duration on a scale of 1-4 in your community
- Repeat for regional assessment of risk



Probability Scoring

Reflects the likelihood of the hazard occurring again in the future, considering both the hazard's historical occurrence and the projected likelihood of the hazard occurring in any given year

- 1 Unlikely: Less than 10% probability in any given year (up to 1 in 10 chance of occurring), history of events is less than 10% likely or the event is unlikely but there is a possibility of its
- $2-Occasional: Between 10\% \ and \ 20\% \ probability in any given year (up to 1 in 5 \ chance of occurring), history of events is greater than 10\% but less than 20% or the event could possibly occur.$
- 3- Likely: Between 20% and 33% probability in any given year (up to 1 in 3 chance of occurring), history of events is greater than 20% but less than 33% or the event is likely to occur.
- 4 Highly Likely: More than 33% probability in any given year (event has up to a 1 in 1 chance of occurring), history of events is greater than 33% likely or the event is highly likely to occur.



Magnitude/Severity Scoring

Assessment of severity in terms of injuries and fatalities, personal property, and infrastructure and the degree and extent with which the hazard affects the jurisdiction.

- 1—Negligible: Less than 10% of property severely damaged, shutdown of facilities and services for less than 24 hours, and/or injuries /illnesses treatable with first aid.
- 2—Limited: 10% to 25% of property severely damaged, shutdown of facilities and services for more than a week, and/or injuries/illnesses that do not result in permanent disability.
- 3—Critical: 25% to 50% of property severely damaged, shutdown of facilities and services for at least 2 weeks, and/or injuries/illnesses that result in permanent disability.
- 4—Catastrophic: More than 50% of property severely damaged, shutdown of facilities and services for more than 30 days, and/or multiple deaths.



Warning Time Scoring

Rating of the potential amount of warning time that is available before the hazard occurs. This should be taken as an average warning time.

- 1 More than 24 hours warning time
- 2 12 to 24 hours warning time
- 3 6 to 12 hours warning time
- 4 Minimal or no warning time (up to 6 hours warning)



Duration Scoring

A measure of the duration of time that the hazard will affect the jurisdiction.

- 1 Less than 6 hours
- 2 Less than 1 day
- 3 Less than 1 week
- 4 More than one week



Data Collection

- First Round:
 - Planning capabilities: One Rep per jurisdiction fills out with comments from others. DUE ASAP
- Next up:
 - Current and Future Land Use maps, and language describing development changes in your community: One per jurisdiction.
 DUE JUNE 29th



Next Meetings

- Meeting 3: July 16th, 2018
- Meeting 4: August 27th, 2018

2:00pm at Polk County Emergency Management Agency's Office 1907 Carpenter Avenue, Room C11 Des Moines, Iowa 50314



Contact Information

Allison Riley, Associate Planner ariley@dmampo.org 515-334-0075

Andrew Collings, Senior Planner acollings@dmampo.org 515-334-0075



Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #2 June 18, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #2 June 18, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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www.dmampo.org

Polk County Multi-Jurisdictional Hazard Mitigation Plan Update

Meeting #3 July 16th, 2018 – 2pm

AGENDA:

Meeting starts: 2:02pm

1) REMARKS FROM DIRECTOR MUMM

- a. Comments on flash flooding. Lessons learned/silver linings—can feed our hazard analysis, mitigation projects.
- b. Follow-up on discussion about active shooter/threat. Not including it in this HMP update. Could include more than shooter (driver). This is not something FEMA would fund.
- c. This is being covered/included in the work Active Threat Working Group has doing. Communities (including people in room) already provided input to this process over the last many months. Concept of operations—a plan makes it sound like we'll instruct how professionals (fire, PD, etc.) do their jobs. How they interact/act in a unified operational. Active Threat Working Group – what that threat means and how these groups work together.

2) INTRODUCTIONS

Include: Name; Organization and Role; Describe any lessons learned from recent flash flooding event; how it will influences your job/community.

Bruce, Johnston Schools – Flash flooding. Because of the magnitude of water, we had much more water in flatter areas (not usual sites for extra water)

George, Johnston Schools – Never had water that high. Store things on higher ground.

Joe, South East Polk – Small lessons when we hosted people from their flooded out homes.

Scott, City of Altoona – Open communication with EMS, etc. Saw flash flooding in areas we've never seen it before.

How small communities comes together to help each other out. Many people who didn't see damage came out to help those who did.

Rick, FIRE – Walnut Creek flood levels. Value of mutual aids.

Altoona • Ankeny • Bondurant • Carlisle • Clive • Dallas County • Des Moines • DART

Grimes • Johnston • Mitchellville • Norwalk • Pleasant Hill • Polk City • Polk County

Urbandale • Warren County • Waukee • West Des Moines • Windsor Heights

Clive planner – Big lesson, proactively looking. Getting ready to update comp plan.

Lewis, WDSM Fire – commination with public safety division with getting word out in City.

Adam, city of Des Moines engineer – one lesson is proposed areas for Polk County are accurate (places outside of floodplain can flood).

With the masses amount of data collected during flood event, know having a standardized way of collecting it and sharing it is crucial.

FIRE chief, the search process for someone washed away. 4 hours looking for someone. 6 people who were taken/washed out. Getting resources like boats and buses to get people out of area (quickly).

Jerry, FIRE – coordinate better, make sure everyone is on the same page Johnston/Grimes – Past mitigation efforts worked to a certain extent. Magnitude of water overwhelmed those plans.

City of Urbandale – Making sure that everyone at the front end knows what is happening; consistent messaging.

Scott, Urbandale FIRE – Watching over the years that have been spent on good projects

Eric – From a city standpoint, identify who is going to be public relations person and who is going to call the shots. Haven't practiced plan.

City of Ankeny FIRE – Expectation that people can get stuff to the curb you're going to take it away. Curbside pickup not same as garage pickup. Importance of public communication getting story straight.

West Des Moines Schools – none of buildings were affected. Even though there were issues with sub pumps.

Valley High School – Impressed with social media getting message out (the good and bad); appreciate the communication.

Michael, Polk County – Pumping basements. The organization, getting all of those resources organized.

Polk County – caution people on buying properties, even properties not in floodplain can flood.

Matt Noble, Homeland Security – Recover division, damage assessment. Still busy with dealing with aftermath.

Burn, Des Moines water works – when Raccoon River is up, makes them a big bathtub. Have seen phase improvements, which help get that amount of water out quickly.

Cameron – Figure out what wasn't flooded so employees knew how to get in. Communications.

Joe Sullivan, Red Cross – Getting structure put in place. Many ways to do damage Clean up kits.

Tracy – Human error.

DSM Public Schools – Communications. That if someone knows something they pass it on.

Catholic Diocese – problems with roofs that could not handle rain coming down. Surprised by the TV coverage and the amount of info was being shared.

City of Windsor Heights – Vacation out all week

Urbandale superintendent – didn't realize how much damage would be done to football fields. Impressed/thankful for the people who stepped up to clean up and did the work needed. Grateful for not being in school session during event. Weezer – reinforced that preventative maintenance is important that even if you feel like you don't have the time, need to find the time for such preventative maintenance measures (even if just small). Limited damage because of sub pumps.

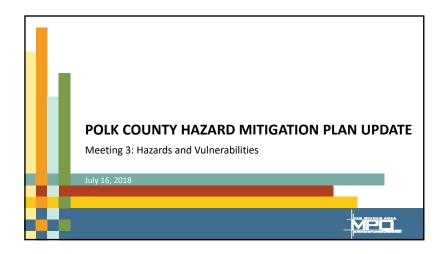
3) PRESENTATION: Assessing Risk – Allison Riley, DMAMPO

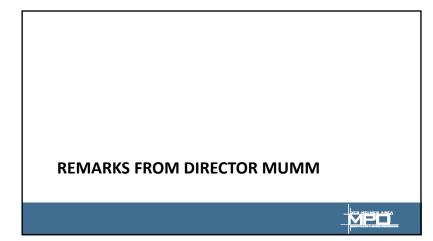
4) ACTIVITY: Mapping the Ripple Effect of Hazards

5) WRAP UP/FINAL DISCUSSION

Meeting concluded: 3:13pm

Next Meeting: August 28th - 2pm - Polk County Emergency Management - 1907 Carpenter Ave





Introductions

- Name
- Organization & Role
- Describe any lessons learned from recent flash flooding event.
- How will this influence your community or staff in mitigating, preparing for or responding to flash flooding?



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.



Completing Plan

- · Plan update:
 - Review 2014 Polk County Hazard Mitigation Plan to determine which information is remains relevant and what needs to be changed.
 - Provide comments in new plan based on changes from old 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.



Completing Plan

The plan follows FEMA's prescribed planning process. Its 4 main elements include:

- · Organize resources
- Assess risks
- · Write mitigation strategy
- Implement plan





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, lowa 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.



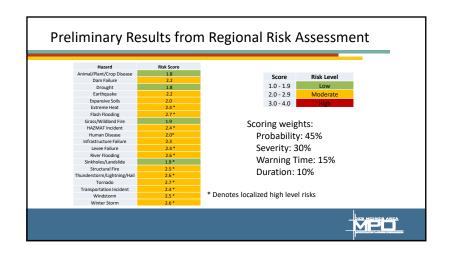
Assessing Risk: Previously Listed Hazards

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Anima/Plant/Crop Disease
Dam Fallure
Drought
Earthquake
Expansive Solis
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Grass/Wildland Fire
HAZANAT Florident
Human Disease
Infrastructure Fallure
Landbide
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Radiological incident (Sarte Chry)
New Flooding
Structural Fire (Park Country Ghry)
Terrorium (Sarte Chry)
Thunderstorm/Lightning/Shall
Tonado
Transportation Incident
Windstorm

Suggested additions from our last meeting:

- Water Quality
- · Consider climate change throughout:
 - More intense precipitation and flooding
 - Increase in extreme heat days
 - Drought & humidity
 - Effects on agriculture, human health, air pollution, tornadoes





Today's Activity - Examining the Ripple Effect of Hazards

- Working with representatives from your community, use the maps provided to identify areas affected by our recent flash flood event and analyze how this one hazard created others.
 - Example: Flash flooding in Windsor Heights led to transportation incidents & sinkholes
- Example: Flash flooding in Des Moines led to transportation incidents & structural fires
- Repeat for River Flooding, Winter Storms, Extreme Heat, and any others your group choses applicable.
- · Then start to brainstorm ways to reduce the risks of these incidents.
 - REMEMBER: Mitigation aims to reduce loss of life and property damage.
- Finally, complete risk assessment for water quality hazard.



Data Collection

- · Currently due:
 - Planning capabilities: One Rep per jurisdiction fills out with comments from others. DUE ASAP
 - Current and Future Land Use maps, and language describing development changes in your community: One per jurisdiction.
 DUE ASAP
- School districts will receive a data request later this week regarding CIPs

MPO

Final Meeting for Phase I

Meeting 4: August 27th, 2018

2:00pm at Polk County Emergency Management Agency's Office 1907 Carpenter Avenue, Room C11 Des Moines, Iowa 50314



Contact Information

Allison Riley, Associate Planner ariley@dmampo.org 515-334-0075

Andrew Collings, Senior Planner acollings@dmampo.org 515-334-0075



Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #3 July 16, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #3 July 16, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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Des Moines, Iowa 50309 Phone: 515.334.0075 Email: info@dmampo.org www.dmampo.org

Polk County Multi-Jurisdictional Hazard Mitigation Plan Update

Meeting #4 August 27th, 2018 – 2pm

AGENDA:

Meeting began: 2:05pm

1) PRESENTATION: Phase I Overview – Allison Riley, DMAMPO

2) DISCUSSION

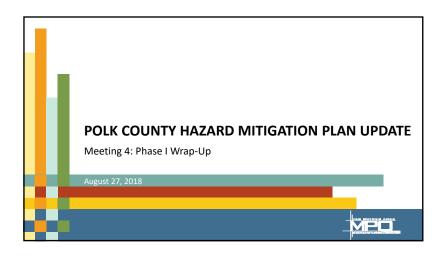
In a perfect world, what mitigation strategy would your jurisdiction implement, and why? What mitigation strategy has had the most impact on your community to date?

- Joe South East Polk School District driving in inclement weather
- Altoona inclement weather, whether it's tornadoes, install tornado structures more frequently placed
- Brad Rose from WDSM Schools Designing a designated
- George Smith Johnston Schools Extra safety locations to put students and staff
- Hardened roofs?
- City of Ankeny retrofitting safe rooms in all of the buildings and schools
- Public Works upgrade storm sewers to mitigate flash flooding
- Chad Carlson Bondurant-Farrar Hard spaces, FEMA grade shelters
- West Des Moines levy and storm water system
- Kurt Bailey Polk County more roads, bridges, storm water storages in urban areas
- City of Bondurant upgrading and making sure infrastructure is designed properly to handle storms, and proper infrastructures for tornado safety
- Iowa Homeland Security Emergency Management detention base to slow the water down and infiltrate for both flash flooding and infiltration, acquisition and demolition of structures that were previously flooded and turning them into green spaces
- Jenifer Ellison Polk County No more construction in flood plains
- Get rid of large rocks used for levy material in case of tornado
- City of Des Moines engineer properties that were grandfathered out for storm water and bring them up to current standards
- Cody City of Des Moines buyout properties in flood-prone areas;
- Steve Brown Fire Chief, City of DSM fire checks, extinguisher
- Elkhart flashflood water mitigation

- City of Mitchellville larger water management for fire hydrants, road connections
- Updating the system, maintain architectural integrity and accessibility
- Vern Rash DMWW Flash flooding deterrence within DMWW facilities
- Getting first response throughout the community
- Windsor Heights infrastructure, sewer, sanitary backflow
- Chad McCluskey Windsor Heights infrastructure replacement,
- North Polk Schools safe rooms
- Gary Urbandale safe rooms in schools, expand ability to handle the runoff, and work in conjunction with the south, communication systems
- Swimming lessons and life-saving skills education for citizens, buy out properties in flood plains
- Catholic diocese and schools safe rooms, flood mitigation
- Safe rooms, buy out properties in flood plains
- 3) FINAL PHASE I Activity
- 4) WRAP UP/FINAL DISCUSSION

Meeting Concluded: 3:22pm

Next Meeting: TBD When Phase II RFP process is finalized. Fall 2018



Agenda for Today

- · Hazard Mitigation Planning Overview
- Hazard Profile Overview
- Risk Assessment Overview
- What to expect from Phase II?
- Brief Discussion
- · Last Phase I Activity



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.

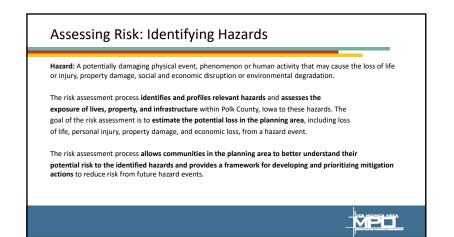


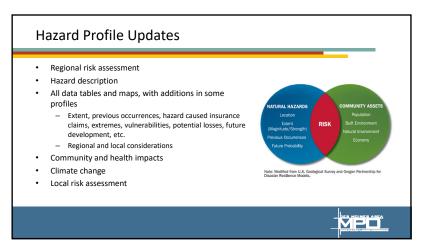
The Plan

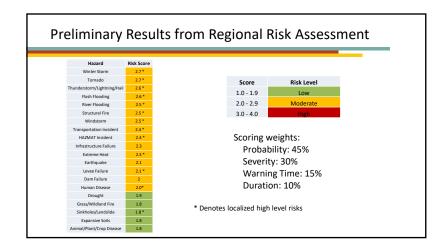
Multi-jurisdictional plan

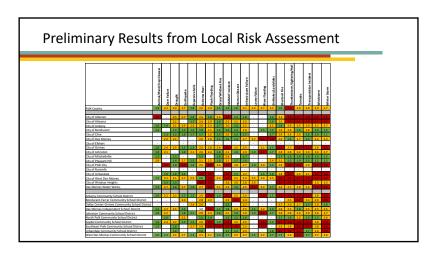
- General information that applies to all jurisdictions:
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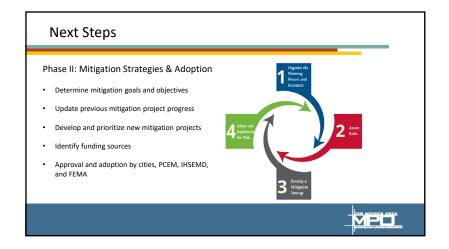












Discussion

- Name
- Organization
- Role
- In a perfect world, what mitigation strategy would your jurisdiction implement? Why?
- What mitigation strategy has had the most impact on your community to date?



Final Activity in Phase I

Please take a moment to validate critical facilities counts for your community and final local risk assessment.

- Denotes community facilities found within Polk County boundaries.
- If there is a hazard you would like to rescore, please talk to MPO staff.

MPO

Contact Information

Allison Riley, Associate Planner ariley@dmampo.org 515-334-0075

Andrew Collings, Senior Planner acollings@dmampo.org
515-334-0075



Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #4 August 27, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #4 August 27, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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420 Watson Powell Jr. Parkway, Suite 200

Phone: 515.334.0075 Email: info@dmampo.org

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Polk County Multi-Jurisdictional Hazard Mitigation Plan Update

Meeting #5 December 3rd, 2018 – 2pm

AGENDA:

Meeting started: 2:04pm

1) PRESENTATION: Phase II Overview, Allison van Pelt, DMAMPO

2) **DISCUSSION:** Goals and Priorities

Comments/Edits to Current Goals

PROACTIVE: Is there an opportunity put proactive actions such as dimensions of climate change - watersheds should be taken into account to anticipate what would happen in the next 20-30 years.

- Proactive vs. mitigation
- For Goal #3, data collection, projections, use and sharing to reduce the impact of hazards
 - Data collection needs to have measurable outcomes to compare and improve future planning
 - "data driven decision making for positive future outcomes"

PREVENTION: The current goals focus a lot on how to fix something that has been impacted already. Needs more policies and action items about preventing new development from hazards. Needs to be more than increase public awareness, need more actions to prevent.

- Objectives in the middle of goals?
- Goals and actions?
- Yes to both questions (AJ) start at the big picture, then what needs to be done, then how

Goal #5 Keywords: within a **regional** context - one community needs to think of what's best for the whole region, not just itself; limit poor decision, resulting in preventing hazardous impacts; mitigating the problems versus "moving it down"; "hazards from occurring"

 $\label{lem:collaborate} \mbox{Collaborate on regional best practices to lessen impacts from hazards}$

Collaborate regionally on local best practices to lessen impacts of hazards

Collaborate locally on regional best practices to prevent or lessen impacts of hazards

- Prevention is different from protection
 - Hazards may still happen, but not damages (ex, buildings were not developed in flood hazard areas, so that even though there were hazards, there wouldn't be damages)

Voted: Combine goals #2 & #5 to have a total of 4 goals, and a really long goal #2

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Comment: As a school district, putting in safe rooms through FEMA is next to impossible. For actions, make it something that are feasible through FEMA.

- School district workshops?
- Comment (AJ): Looking back at past plans and what had been successful and using it as a guide to implement new action items

3) WRAP UP/FINAL DISCUSSION

Meeting concluded: 3:01pm

Next Meeting: Optional workshop: January 15th, 2019 Final HMP Meeting: February 25th, 2019



420 Watson Powell Jr. Parkway, Suite 200

Des Moines, Iowa 50309 Phone: 515.334.0075 Email: info@dmampo.org www.dmampo.org

November 16, 2018

Subject: Polk County Multi-Jurisdictional Hazard Mitigation Plan Update - Phase II

Dear Partner,

As you may know, Polk County has a countywide FEMA approved Hazard Mitigation Plan. This plan was developed in accordance with the Disaster Mitigation Act of 2000 which 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.

The Polk County Multi-Jurisdictional Hazard Mitigation Plan must be updated by July of 2019. As with the last update, the planning process requires all school districts to participate in the planning process in order to be eligible for hazard mitigation funding.

The hazard mitigation planning process has been and will continue to be heavily dependent on the participation of representatives from local government agencies and departments, the public, and other stakeholder groups. A Hazard Mitigation Planning Committee has been formed to support this project and will include representatives from the County, cities, school districts, watershed management authorities, and other local, state, and federal agencies in or that serve Polk County.

It continues to be essential for your jurisdiction to send at least one individual to the Phase II meetings listed below. At these meetings, we will review Phase I, draft plan goals and objectives, review STAPLEE guidelines, review the list of projects submitted for each jurisdiction in 2014 to determine progress and add new projects, determine funding sources, and more. Polk County requests your assistance in forwarding this invitation to others in your agency or jurisdiction that can benefit this process. Appropriate persons to be a part of the planning committee include: County/City Clerks, Elected Officials, Public Works Directors, Floodplain Managers, County/City Planners, Economic Development Directors, GIS Staff, School Principals, School Facilities Directors, Watershed Coordinators, and School Superintendents.

Polk County Emergency Management has hired the Des Moines Area Metropolitan Planning Organization (DMAMPO) to manage Phase II of the plan update. DMAMPO will facilitate the planning process, collect necessary data, finalize the report, and hold a 30-day public comment period. However, to successfully complete this project and ensure your organization is eligible for FEMA hazard mitigation assistance funding, we need your participation and input.

The Hazard Mitigation Planning Committee will meet three times during Phase II of the planning process, all of these meeting dates, time, and location are listed below.

Meeting 1: December 3th, 2018 Meeting 2: January 14th, 2019 Meeting 3: February 25th, 2019

All meetings will begin at 2pm at Polk County Emergency Management Agency's Office, 1907 Carpenter Avenue – Des Moines, Iowa 50314 in Room C11.

Please RSVP to these meetings with the names and positions of the attending representatives to Allison van Pelt avanpelt@dmampo.org or (515) 334-0075.

In preparation for the Phase II process early next week MPO staff will distribute mitigation project spreadsheets containing projects each jurisdiction submitted for the 2014 hazard mitigation plan. Before December 3rd, , we are asking that each jurisdiction to please take time with your staff to review these, make note of any progress, and bring this to the first Phase II meeting.

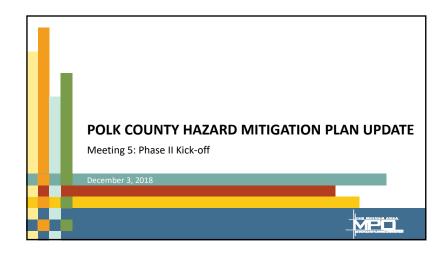
If you have any questions during this process please do not he sitate to contact me by email or phone.

Thank you for your attention and responses to this important project. We look forward to working with you.

Sincerely,

Allison

Allison van Pelt | Associate Planner **Des Moines Area MPO** | 420 Watson Powell, Jr. Way, Suite 200, Des Moines, IA 50309 p. 515.334.0075 | e. avanpelt@dmampo.org | w. www.dmampo.org



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.



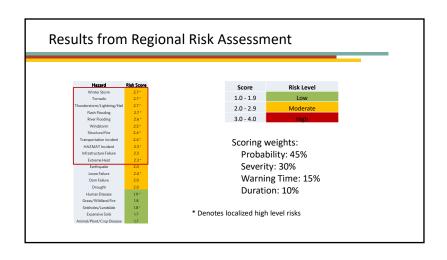
The Plan

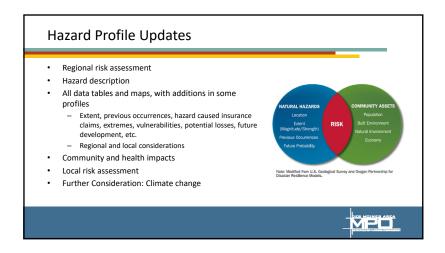
Multi-jurisdictional plan

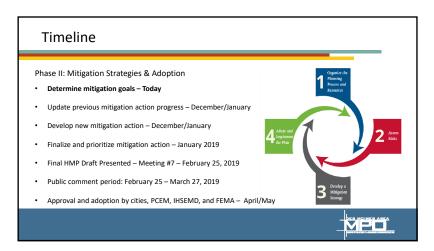
- General information that applies to all jurisdictions:
 - Common planning process, hazards, goals, collaborative actions, plan maintenance process.
- Specific information that varies by all jurisdictions
 - Geographically specific hazards; unique risks; specific goals and actions; individualized responsibility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







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

- Protect the health, safety and quality of life for lowa 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.
- Expand public awareness and encourage intergovernmental cooperation, coordination and communication to build a more resilient community against all hazards.



2014 Polk County HMP Goals

- 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?

- 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.
- 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

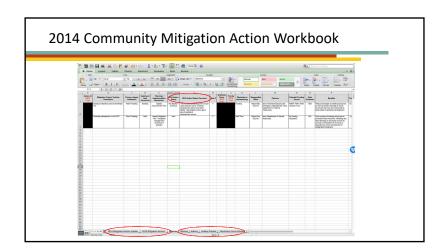
- Long-term successes take priority in project selection:
 - Local hazard mitigation planning
 - Critical facilities protection
 - Infrastructure drainage
 - Electrical retrofit
 - Property acquisition/relocation/elevation
 - Safe rooms
 - NOAA weather radio transmitter installation
 - Trainings, workshops,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

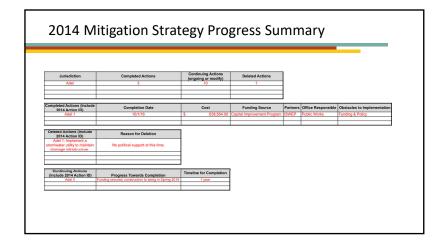


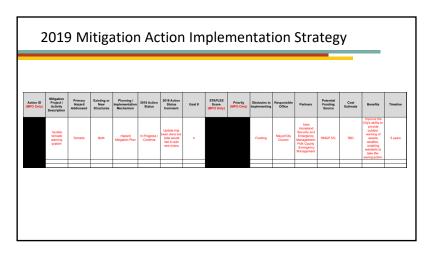
STAPLEE Mitigation Action Scoring the proposed measure acceptable to the community Will the measure treat all individuals and groups equitably? Will the measure result in an inadvertent negative treatment of one or more segments of the population? Will the measure reduce losses in the long-term? s the measure a whole or partial solution to the problem? Does the measure solve the problem instead of the sympto Do the agencies responsible for implementing the measure ave the skill, experience, knowledge, ability, staffing, funding and maintenance capability to do so? Does the measure have the support of elected officials, public Does the jurisdiction responsible for implementing the meas have the legal authority to do so? Is there a legal basis (local code/ordinance, state law, or fede Does the measure contribute to the overall economic goals of 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? Does the measure comply with local, state, and federal

"Home" work

- Prior to optional workshop 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 the optional workshop we will finalize the drafting of mitigation projects.







QUESTIONS?



Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #5

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December 3, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #5

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Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #5

December 3, 2018 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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Polk County Multi-Jurisdictional Hazard Mitigation Plan Update

Meeting #6 February 25th, 2018 – 2pm

AGENDA:

Meeting started: 2:07pm

1) INTRODUCTIONS

Which of the goals means the most to you in your role, and how will you ensure that it is met in your community?

Jim Clack (Ankeny) - #2

WDM - Public Safety, #1, #2 - make sure all the departments are involved

Des Moines - #4 & #5 floodplain management

DMWW – flood protection, preventing problems with treatment due to floods – all the prompts apply

Randy Carroll - #4

Steve Brown – DSM Fire - #2 – mitigation

George Smith, Johnston Schools – high grounds

Johnston Schools – academic aspect with #1 with drills (fire, tornado, lockdown, etc.) – teaching individuals what to do in case of an emergency

City of Johnston, PublicWorks - #1 – increasing public awareness, #3 data driven decision making

Jim Clark – Fire Chief, Johnston and Grimes - #1 get people to take more personal responsibilities and having their own plan s

#1 – working with partners and surrounding areas

Polk City – work #1 & #2 together, using social media and campaigns for hazard education Dallas County – all applicable

Urbandale fire - #3 & #4, vulnerable populations*

Urbandale fire #2

All of the above

John Horten? Public Works - #2

Evan – Delaware Fire - #2, incorporation of lesson learned (implementing), data driven decisions

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WDM – planner - #4, protecting the most vulnerable people, buildings, to mitigate hazard impacts

#4

Scott – public works – all of them, #2 sticks out

National Weather Service - #4, protect the most vulnerable population

Urbandale schools - #4 protecting the most vulnerable population

Polk Co Health Dept – protecting public health, most vulnerable population

Windsor Heights - #1, tell people why

??? Schools - #4,

#4 – protect our assets, and #2 improve capabilities

DSM Public Schools - #4, improve capabilities with partners

Polk Co public works - #2

Urbandale - all four, in the risk field, #4

Polk County Emergency Management - #4 help jurisdictions to best implement health & safety mitigation

Polk County Emergency Management - #4

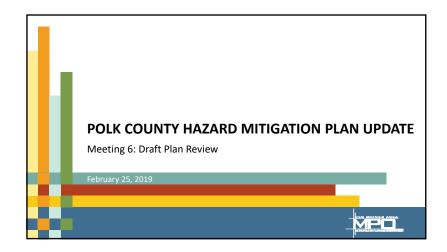
Planner Polk Co - #1 & #3, health and safety evaluated for everything

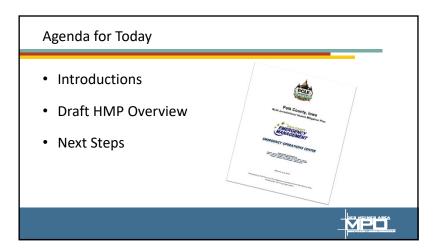
MPO – all four

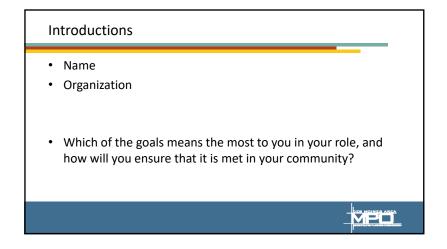
2) PRESENTATION: Draft Plan Overview, Allison van Pelt, DMAMPO

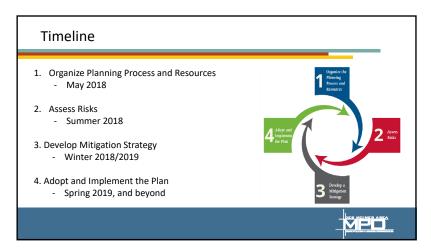
3) NEXT STEPS/ WRAP UP/FINAL DISCUSSION

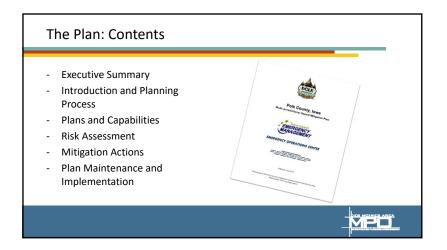
Meeting concluded: 3:11pm

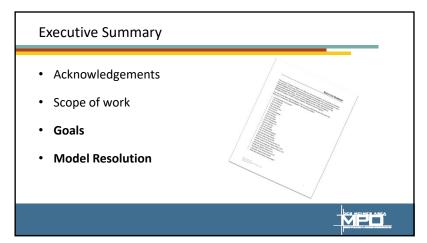


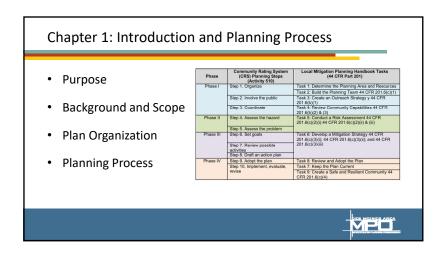


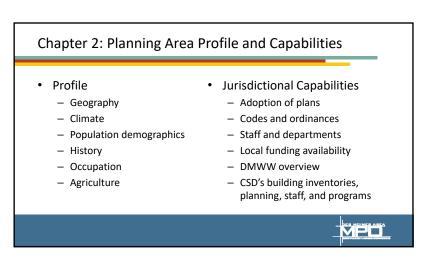




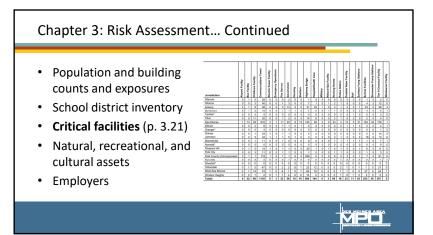








Existing mitigation plans Disaster declaration history Identify hazards Scoring methodologies Jurisdiction assessments HAPP — Health Hazard Assessment and Prioritization Prioritization



Chapter 3: Risk Assessment... Continued

- County-wide population and housing changes and projections
- Community profiles
 - Past and future land use and development
 - Community zoning and land use maps
- School district past and future developments



Chapter 3: Risk Assessment... Continued

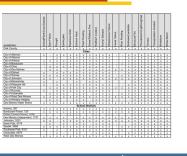
- Hazard Profiles and Vulnerabilities
 - Hazard description
 - Geographic location and extent
 - Previous occurrences
 - Probability of future occurrences

- Potential losses to existing and future development
- Community and health impacts
- Hazard summaries by jurisdiction



Chapter 3 Risk Assessment... Continued

- · 20 hazards profiled
 - Largest profile:
 - River flooding
 - Shortest profile:
 - Earthquakes & Expansive Soils
 - All important and have potential for occurring somewhere within the county





MPD

Chapter 3: Risk Assessment... Continued • Items of special interest - Hazard score calculations - Hazard score summaries - 500-year flood maps - Repetitive loss and NFIP data - Consideration of climate change | Marard Score Education | Mar

Chapter 4: Mitigation Strategy

2019 Polk County Multi-Jurisdictional Hazard Mitigation Plan Goals

- Protect the public health, safety, and welfare by increasing public awareness of hazards and by encouraging collective and individual responsibility for mitigating hazard risks.
- 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 to prevent or
 lessen impacts from future hazards.
- 3. Improve data collection, use, and sharing to improve data-driven decision making and future outcomes.
- 4. Protect the most vulnerable populations, buildings, and critical facilities through the implementation of cost-effective and technically feasible mitigation actions.

Chapter 4: Mitigation Strategy... Continued

- Previous plan: 157 actions
 - 24 completed
 - 28 deleted or combined
 - 107 continued
- This update: 221 actions
 - 114 new actions



FEMA calculates mitigation saves society an average of \$4 saved for every \$1 spent.

Pew Research estimates \$6!



Chapter 5: Plan Maintenance and Implementation

- · Monitoring, evaluating, and updating
 - Role of Hazard Mitigation Planning Committee
 - · Act as forum for idea sharing and issues
 - · Keep mitigation at forefront of community decision making
 - Plan Maintenance Schedule
 - HMPC will meet after hazard events to monitor progress of actions and update mitigation strategy
 - Plan Maintenance Process
 - Make changes when actions fail or are deemed not feasible



Chapter 5: Plan Maintenance and Implementation... Continued

- · Incorporation into existing planning mechanisms
 - Use this document during CIP and plan development
 - HMPC members are delegated to promote integration of this plan into others
 - MPO will collect action updates during TCIP process annually
- · Continued public involvement
 - When possible involve the public in the implementation process
 - Publicize success stories



This Plan is a Living and Breathing Document

- Please don't just put this on the shelf
- · Areas of particular interest:
 - Hazard Profiles
 - · Data, mapping, figures, etc.
 - MPO can provide raw data used to the jurisdictions for their use
 - Mitigation Actions
 - Utilize and update during budget season and before (re)development



Next Steps: Final Additions by MPO Planning Team

- · Meeting attendance for this meeting
- Final public participation notes/adjustments after public comment period
- If your community did not sign off at Meeting #3 on critical facilities inventory, please look over this table (p. 3.21) and send MPO corrections by March 25th
- MPO will provide link to draft plan for review and further promotion to community members



Next Steps: Approval and Adoption County-wide • During April and May the plan should go before jurisdiction executive committees • Model resolution available in Executive Summary • Return approved resolutions to MPO no later than May 31st • June 1st plan moves to IHSEMD and FEMA for approval • Tentatively, July 1st this update will go into effect



Allison van Pelt, Associate Planner avanpelt@dmampo.org 515-334-0075 Andrew Collings, Senior Planner acollings@dmampo.org 515-334-0075

Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #6 February 25, 2019 - 2pm - Polk County Emergency Operations Center - 1907 Carpenter Ave - Des Moines, IA

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DES MOINES AREA METRO PLANNING 420 WATSON POWELL JR WAY STE 200 DES MOINES IA 503091611

AFFIDAVIT OF PUBLICATION

State of Wisconsin

County of Brown, ss.:

The undersigned, being first duly sworn on oath, states that The Des Moines Register and Tribune Company, a corporation duly organized and existing under the laws of the State of Iowa, with its principal place of business in Des Moines, Iowa, the publisher of

THE DES MOINES REGISTER

newspaper of general circulation printed and published in the City of Des Moines, Polk County, Iowa, and that an advertisement, a printed copy of which is attached as Exhibit "A" and made part of this affidavit, was printed and published in The Des Moines Register on the following dates:

| Ad No. | Start Date: | Run Dates: | Cost: |
|------------|-------------|------------|---------|
| 0003267822 | 11/29/18 | 11/29/18 | \$15.53 |

Copy of Advertisement Exhibit "A"

Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Public Meetings Meeting 1: December 3th, 2018 Meeting 2: January 14th, 2019 Meeting 3: February 25th, 2019 Meeting 3: February 25th, 2019 All meetings will begin at 2pm at Polk County Emergency Management Agency's Office, 1907 Carpenter Avenue — Des Moines, Iowa 50314 in Room C11.

Staff member, Register Media

Subscribed and sworn to before me by said affiant this

8th day of March, 2019

Notary Public

Commission expires





DES MOINES AREA METRO PLANNING 420 WATSON POWELL JR WAY STE 200 DES MOINES IA 503091611

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| Ad No. | Start Date: | Run Dates: | Cost: |
|------------|-------------|------------|---------|
| 0003391127 | 2/20/19 | 02/20/19 | \$16.53 |

Copy of Advertisement Exhibit "A"

Polk County Multi-Jurisdictional Hazard Mitigation Plan Update Final Public Meeting February 25th, 2019 at 2pm at Polk County Emergency Management Agency's Office, 1907 Carpenter Avenue — Des Moines, Iowa 50314 in Room C11. 30-Day Public Comment Period open February 25th through March 25th, 2019 Plan can be reviewed and commented on at dmampo.org

Staff member, Register Media

Subscribed and sworn to before me by said affiant this

20th day of February, 2019

Notary Public

Commission expires



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Health Hazard Risk Assessment Forms Group. 8/30/18 @10:30/m

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