

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024 Appendix

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Appendix A—Photo Credits

Chapter	Photo Source
Cover	Linn County Planning and Development
Introduction	ECICOG
Plan Goals	Linn County Planning and Development
Community Profile	ECICOG
Risk Assessment	Linn County EMA
Hazard Prioritization	Linn County EMA
Community Attributes	ECICOG
Mitigation Strategy	City of Coggon
Action Plan	Linn County EMA
Plan Incorporation and Maintenance	Linn County Planning and Development

Appendix B—GIS Layer Sources

Layer	Source
Airports	Federal Aviation Administration
Aviation Incidents	ECICOG from NHTSB data
Cedar Rapids Critical Facilities	City of Cedar Rapids GIS Department
Cedar Rapids Metropolitan Statistical Area	US Census Bureau TIGER/Line
Creek	Iowa Geodata
Critical Facilities	ECICOG
Dams	Iowa Geodata
Emergency Sirens	Linn County GIS
Flood Hazard Zones	Iowa Geodata from FEMA data
High Clay Soil	Iowa GIS Library
Iowa	US Census Bureau TIGER/Line
Iowa Counties	US Census Bureau TIGER/Line
Lake/Pond	US Census Bureau TIGER/Line
Linn County	US Census Bureau TIGER/Line
Municipality	Linn County GIS
Orthographic Imagery	Iowa State University Geographic Information Systems Support and Research Facility
Population Change 2000 to 2010	ECICOG from US Census data
Potential Karst Soil	Iowa GIS Library
Railroad	US Census Bureau TIGER/Line
River	Iowa Geodata
Road/Primary Road	US Census Bureau TIGER/Line
School Districts	Iowa Department of Education
Schools	Iowa Department of Education
Slope	Iowa GIS Library
Tier II Chemical Storage Facility	Iowa Department of Natural Resources REST Service
Vulnerable Populations	ECICOG
Wastewater NPDES Facility	Iowa Department of Natural Resources REST Service

Appendix C—Local Planning Committees and Meeting Documentation

This appendix presents the members of each local planning committee, the public meeting notice for each local planning meeting, the respective minutes for each meeting, and the sign-in sheet collected at each meeting.

Linn County Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Linn County planning committee are included in Table 1 to provide context for how final mitigation strategies were identified.

Table 1: Linn County Planning Committee

Name	Organization/Position
Stephanie Lientz—Primary Contact	Linn County/Planner II
Rodd Baxter	Linn County/Zoning Inspector
Chad Colston	Linn County Sheriff/Major—Second Deputy: Patrol
James Houser	Linn County/Supervisor
Chris Thoms	Food Systems Council
Sonia Kendrick Stover	Food Systems Council
Julie Stephens	Linn County/Emergency Preparedness and Planning
Steve O’Konek	Linn County EMA/Emergency Management Coordinator
Steve Gannon	Linn County/Engineer
Les Beck	Linn County/Director, Planning & Development
Jon Gallagher	Linn County/Soil Conservation
Dennis Goemaat	Linn County/Conservation
Kevin Esmail	Linn County EMA/Plans & Exercises

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

LINN COUNTY COMMUNITY MEETING



Date

February 26, 2018

Time

3:00 PM

Location

Jean Oxley Public Service Center
Conference Room 3A/3B
935 2nd St. SW
Cedar Rapids, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicoq.org or by phone at 319-365-9941 ext. 130.

Meeting Minutes

Linn County Hazard Mitigation Plan
Linn County Community Meeting

February 26, 2018
3:00 p.m.–5:00 p.m.

Jean Oxley Public Service Center
Conference Room 3A/3B
935 2nd St. SW
Cedar Rapids, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The County’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the County’s risk assessment. The consultant also provided the County’s risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The priority level was changed for two hazards. Refer to the County’s summary documentation for the risk assessment criteria, countywide risk assessment, the County’s risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the County’s mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes, and the County agreed to provide the consultant with shapefiles for the facilities. Refer to the County’s summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The County discussed vulnerable populations but opted not to include any facilities. Most vulnerable populations are within incorporated areas within the county.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the County is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the County’s mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to County’s summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City’s mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City’s summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The meeting space was occupied by another group at 5:00 p.m., so the meeting had to end prior to this agenda item, which was informational. The consultant offered to provide

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

his contact information for anyone who wanted further details about the remaining steps in the planning process.

Meeting minutes were completed by Tom Gruis on 4/24/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Linn County Community Meeting

Name	Jurisdiction and Title	Contact Information
Tom Gravis	ECICOG Planner	319-365-9941
Stephanie Brentz	LC P+D Planner II	319-892-5138
Rodol Benter	LC Planning zoning Insp.	319-892-5134
JAMES DRANOS	BERTRAM Mayor	319-640-0488
Donnie Meier	Lisbon City Adm. Director	319-455-2479
CHAD COLSTON	LINN COUNTY SHERIFF'S OFFICE	319-892-6104
James Houser	Linn County Supervisor	319-892-5000
Chris Thoms	Food Systems Council	319-491-8022
Alicia Presto	ECICOG Planner	319-365-9941
Julie Stephens	Linn Public Health	319-721-5296
STEVE CRANER	LINN CO EMA	319-892-6400
STEVE GANNON	LINN COUNTY ENGINEER	319-892-6400
Ces Beck	Linn Co. P+D	319-892-5151
Jon Gallagher	Linn Co. Soil Conservation	319-377-5966
Dennis Goemaat	Linn County Conservation	319-892-6458

Date

February 26, 2018

Time

3:00 PM

Location

Jean Oxley Public
Service Center
Conf. Room 3A/3B
935 2nd St. SW
Cedar Rapids, Iowa

Alburnett Planning Committee and meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Alburnett planning committee are included in Table 2 to provide context for how final mitigation strategies were identified.

Table 2: Alburnett Planning Committee

Name	Organization/Position
Guy Trimble—Primary Contact	Public Works/City of Alburnett
Danielle Brecht	City Clerk/City of Alburnett
Bethany Sarazin	Council Member/City of Alburnett
Chester Schantz	Council Member/City of Alburnett
Kevin Esmail	Plans and Exercises/Linn County EMA
Steve O’Konek	EMC/Linn County EMA
Carrie Walker	Nonprofit Network Manager/Greater Cedar Rapids Community Foundation

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

Meeting Minutes

Linn County Hazard Mitigation Plan
Alburnett Community Meeting

September 25, 2018
10:00 a.m.–10:55 a.m.

Alburnett City Hall
103 E. 1st St.
Alburnett, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The committee felt the priority levels from the currently approved plan are appropriate for current conditions. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. No additional locations were added to the list of critical facilities, but it was noted that the new fire station location will also have a park constructed next to it. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The City discussed the types of facilities that regularly host vulnerable populations. The committee did not identify any vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed and some strategies were removed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 10/8/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
 Alburnett Community Meeting

Name	Jurisdiction and Title	Contact information
Guy Trimble	City of Alburnett - Public Works	alburnettmobile@gmail.com
Danielle Brecht	City of Alburnett - City Clerk	alburnett@lmtes.com
Bethany Saxson	City of Alburnett - Council Member	bethany.saxson@gmail.com
Chester Schantz	City of Alburnett - Council	C-SCHANZ@FUTCS.CO
Kevin Esmail	Kevin.Esmail@linncounty-ia.org	LCEMA
Shate O'Konek	SHATE.OKONEK@LINNEMHA.ORG	LCEMA
Cornie Walker	Greater Cedar Rapids Community Foundation	Nonprofit Network Manager cornie.walker@gcdcf.org
Tom Gruis	ECICOG / Planner	tom.gruis@ecicog.org

Date
 September 25, 2018

Time
 10:00 AM

Location
 Alburnett City Hall
 103 E. 1st St.
 Alburnett, Iowa

Bertram Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Bertram planning committee are included in Table 3 to provide context for how final mitigation strategies were identified.

Table 3: Bertram Planning Committee

Name	Organization/Position
Kevin Esmail	Plans and Exercises/Linn County EMA
Lisa Berry—Primary Contact	City Clerk/City of Bertram
Nancy McBurney	City Council/City of Bertram
Steve Carpenter	City Council/City of Bertram
Dave Hunt	City Council/City of Bertram
James Drahos	Mayor/City of Bertram
Robert Malone	City Council/City of Bertram

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

BERTRAM COMMUNITY MEETING

Date

February 21, 2018

Time

6:00 PM

Location

City Hall
50 Angle St.
Bertram, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Bertram Community Meeting

February 21, 2018
6:05 p.m.–7:05 p.m.

Bertram City Hall
50 Angle St.
Bertram, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The committee updated the priority level for two hazards. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified the Four Oaks Bertram Campus as a facility that regularly hosts a vulnerable population.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 4/24/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Bertram Community Meeting

Name	Jurisdiction and title	Contact Information
KEVIN ESMAIL	Linn Co EMA Plans	Kevin.Esmail@linncounty-ema.com 319-292-6504
LISA BERRY	CITY OF BERTRAM, CLERK	BERRY LISA49@YAHOO.COM (319) 431-6956
Norey McBurney	City Council member	norey.mcburney@bertram-ia.com 363-0521
Steve Carpenter	Bertram Council	
Dave Hunt	Bertram Council	d1hunt2005@gmail.com
JAMES DRAYOS	BERTRAM - Mayor	319-640-0488
ROBERT MALONE	BERTRAM - Council	319-721-9834
Tom Grubis	ECICOG, Planner	319-365-9941

Date
February 21, 2018

Time
6:00 PM

Location
City Hall
50 Angle St.
Bertram, Iowa

Cedar Rapids Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Cedar Rapids planning committee are included in Table 4 and Table 5 to provide context for how final mitigation strategies were identified.

Table 4: Cedar Rapids Planning Committee Meeting 1

Name	Organization/Position
Mark English	Fire Chief/City of Cedar Rapids
Mike Kuntz	Utilities Environmental Manager/City of Cedar Rapids
Dave Wallace	Swere Utility Engineering Manager/City of Cedar Rapids
Sandy Pumphrey	Project Engineer II-Flood Mitigation/City of Cedar Rapids
Adam Lindenlaub—Primary Contact	Planner III/City of Cedar Rapids
Steve Bonnett	Meth-Wick Community
Matt Myers	Traffic Engineering Manager/City of Cedar Rapids

Table 5: Cedar Rapids Planning Committee Meeting 2

Name	Organization/Position
Mark English	Fire Chief/City of Cedar Rapids
Mike Kuntz	Utilities Environmental Manager/City of Cedar Rapids
Dave Wallace	Swere Utility Engineering Manager/City of Cedar Rapids
Matt Myers	Traffic Engineering Manager/City of Cedar Rapids
Sandy Pumphrey	Project Engineer II-Flood Mitigation/City of Cedar Rapids
Kevin Esmail	Plans and Exercise Specialist/Linn County EMA
Steve O’Konek	Coordinator/Linn County EMA
Daniel Gibbins	Parks Superintendent/City of Cedar Rapids
Adam Lindenlaub	Planner III/City of Cedar Rapids

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

CEDAR RAPIDS COMMUNITY MEETING

Date

January 15, 2018

Time

2:00 PM

Location

City Hall Training Room

City Hall

101 1st St. SE

Cedar Rapids, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

CEDAR RAPIDS COMMUNITY MEETING

Date

February 2, 2018

Time

1:00 PM

Location

City Services Center
Greene Square Conference Room
500 15th Ave. SW
Cedar Rapids, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Cedar Rapids Community Meeting 1

January 15, 2018
2:00 p.m.–4:00 p.m.

Cedar Rapids City Hall
101 1st St. SE
Cedar Rapids, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). Alicia Presto, also a planner with ECICOG, was present as well. The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the city's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Four hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee reviewed the City's critical facilities from the current hazard mitigation plan. The committee felt that there should be some distinction between facilities like police and fire stations and small neighborhood parks. The consultant offered to draft tiers to categorize facilities, a process which could be completed during a later meeting. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The consultant described the ways that vulnerable populations have been described in hazard mitigation plans the consultant has worked on: 1) with a narrative that described the types of facilities that host vulnerable populations and 2) with a list of vulnerable populations determined by the planning committee. The planning committee felt that a narrative was most appropriate for their community, as it would be extremely challenging to enumerate all of the vulnerable populations in the city.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee decided to hold a second meeting to categorize critical facilities by the tiers that the consultant would develop and to prioritize mitigation strategies at that meeting. The consultant would update the mitigation strategies list to reflect those that had been updated or removed for the plan update.

11. Discuss next steps in plan development process

This agenda item was not discussed as there would be a second meeting for the City.

Meeting minutes were completed by Tom Gruis on 2/5/2018.

Meeting Minutes

Linn County Hazard Mitigation Plan
Cedar Rapids Community Meeting 2

February 2, 2018
1:00 p.m.–3:00 p.m.

Cedar Rapids City Services Center
500 15th Ave. SW
Cedar Rapids, Iowa

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. The facilities were also assigned a tier level based on established criteria. Refer to the City's summary documentation for the updates to the critical facilities list.

10. Prioritize mitigation strategy

The consultant provided the planning committee with a list of mitigation strategies that reflected the updates discussed in the first planning meeting. The committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the final mitigation strategy developed by the planning committee

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were complete by Tom Gruis on 3/20/2018

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Cedar Rapids Community Meeting

Name	Jurisdiction and Title	Contact Information
MARK A. ENGLISH	C.R. Fire Chief	319-286-5750
Mike Kuntz	Utilities Environmental Mgr	319-286-5282
DAVE WALLACE	Senior Utility Engineering Mgr	319-286-5814
Sandy Pumphrey	Project Engineer II - Flood Mitigation	319-286-5363
Alicia Presto	E C I O C G. Planner	319-365-9941
Tom Lewis	E C I O C G. Planner	319-365-9941
Adam Lindenlaub	City of CR	319-286-5364
Steve Bennett	North-Walk Community	319-297-8619
Matt Myers	Traffic Eng. ^{Planner} Engineer City of CR	319-286-5719

Date
January 15, 2018

Time
2:00 PM

Location
City Hall Training Room
City Hall
101 1st St. SE
Cedar Rapids, Iowa

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Cedar Rapids Community Meeting #2

Name	Jurisdiction and Title	Contact Information
Mark A. English	CRFD	286-5220
Mike Knutson	Utilities	286-5282
Dave Wallace	Public Works	286-5814
Matt Myers	Public Works	286-5718
Tom Gravis	EC-ICOG/ Planner	319-365-9441
Randy Pumphrey	Public Works	319-286-5363
Kevin Esman	Linn Co EMA	319-892-6504
STEVIE O'CONNELL	LINN CO EMA	319-892-6500
Daniel Gibbins	CR Parks- Parks Superintendent	319-286-5768
Adam Lindenlaub	CR Community Development	286-5064

Date
February 2, 2018

Time
1:00 PM

Location
City Hall
Greene Square
Conference Room
101 1st St. SE
Cedar Rapids, Iowa

Center Point Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Center Point planning committee are included in Table 6 to provide context for how final mitigation strategies were identified.

Table 6: Center Point Planning Committee

Name	Organization/Position
Paula Freeman-Brown	Mayor/City of Center Point
Jason Andrews	City Council/City of Center Point
Doug Felton	Fire Chief/City of Center Point
Chris Meader	Center Point Fire Department
Sarah Tritle	Deputy City Clerk/City of Center Point
Tom Ulrich	Emergency Management Specialist/Linn County EMA
Kevin Esmail	Emergency Management Specialist/Linn County EMA

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

CENTER POINT COMMUNITY MEETING

Date

April 25, 2018

Time

5:30 PM

Location

City Hall
110 Franklin St.
Center Point, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Center Point Community Meeting

April 25, 2018
5:35 p.m.–6:45 p.m.

Center Point City Hall
120 Franklin St.
Center Point, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's hazard priorities. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The priority levels for four hazards were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified Golden Age Housing and Dufoe Apartments as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 4/26/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Center Point Community Meeting

Name	Jurisdiction and Title	Contact Information
Paula Freeman Brown	Mayor Center Point	mayor@centerpointia.org
Jasen Andrews	City Council Center Point	jasen@centerpointia.org 319-721-3741
Doug Felton	Fire Chief	319-573-4901
Chris Meader	Center Point Fire Dept.	319-213-2392
Sarah Tritte	Deputy City Clerk	319-849-1508
Tom Ulrich	Linn County EMA	319-892-6502
Kevin Esmail	Linn County EMA	319-892-6504
Tom Gruis	EMCOG, Planner	319-365-9941

Date
April 25, 2018

Time
5:30 PM

Location
City Hall
110 Franklin St.
Lisbon, Iowa

Central City Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Central City planning committee are included in Table 7 to provide context for how final mitigation strategies were identified.

Table 7: Central City Planning Committee

Name	Organization/Position
Shelly Annis—Primary Contact	City Administrator/City of Central City
Kevin Esmail	Plans and Exercises/Linn County EMA
Jason Wenger	Engineer/Burrington Group
Don Gray	Mayor/City of Central City
Thomas Eiben	Public Works Director/City of Central City
Tony Aarhus	Public Works/City of Central City
Chris Arthur	City Council/City of Central City
James O’Leary	Fire Chief/Central City Fire Department

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

CENTRAL CITY COMMUNITY MEETING

Date

February 22, 2018

Time

6:00 PM

Location

City Hall
137 4th St. N.
Central City, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Central City Community Meeting

February 22, 2018
6:05 p.m.–7:20 p.m.

Central City City Hall
137 4th St. N.
Central City, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The planning committee changed the priority level for two hazards. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified several locations where vulnerable populations are regularly hosted. Refer to the City's summary documentation for the updates to the vulnerable populations list.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 4/24/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Central City Community Meeting

Name	Jurisdiction and Title	Contact Information
Shelley Annis	City Administrator	319-438-1713
KEVIN ESMIL	Linn County Emergency Mgmt	319-892-6504
JASON WENGERT	BARRINGTON GROUP, INC-Engr	528-927-2434
Don GRAY	Mayor	319-521-7276
Thomas Eibon	Public Works Director	319-310-7112
Tony Aarhus	Public Works	319-784-7909
Tom Gruis	ECIAG- Planner	319-365-9941
Chris Arthur	City Council	319-721-2355
JAMES O'Leary	Fire Dept Chief	319-929-6602

Date
February 22, 2018

Time
6:00 PM

Location
City Hall
137 4th St. N.
Central City, Iowa

Coggon Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Coggon planning committee are included in Table 8 to provide context for how final mitigation strategies were identified.

Table 8: Coggon Planning Committee

Name	Organization/Position
Brenda Quandt—Primary Contact	City Clerk/City of Coggon
Raymond Archibald	Mayor/City of Coggon
Rich Zieser	City Council/City of Coggon
Brandon Lewis	City Council/City of Coggon
Kevin Esmail	Plans and Exercises/Linn County EMA
Jeremiah Mesch	City Council/City of Coggon
Cheryl Schott	City Council/City of Coggon
Deb Hinton	City Superintendent/City of Coggon

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

COGGON COMMUNITY MEETING

Date

March 6, 2018

Time

5:30 PM

Location

City Hall
118 E. Main St.
Coggon, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Coggon Community Meeting

March 6, 2018
5:35 p.m.–6:35 p.m.

Coggon City Hall
118 E. Main St.
Coggon, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The priority levels for three hazards were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee did not identify any vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 4/26/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
 Coggon Community Meeting

Name	Jurisdiction and Title	Contact Information
Brenda Quandt	Coggon City Clerk	Coggon@questoffice.net
Raymond Archibald	Coggon City Mayor	" "
Rich Zieser	Coggon City Council	" "
Brandon Lewis	Coggon City Council	" "
Kevin Esmail	Linn County Emergency Mgr	Kevin.Esmail@lincow.org 319-242-6504
Jeremiah Mesch	Coggon City Council	C78malik@icloud.com
Cheryl Schott	Coggon City Council	Cheryl.Schott30@gmail.com
Deb Hinton	Coggon City Supt.	debhintonpublicworks@hntmail.com

Date
 March 6, 2018

Time
 5:30 PM

Location
 City Hall
 118 E. Main St.
 Coggon, Iowa

Ely Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Ely planning committee are included in Table 9 to provide context for how final mitigation strategies were identified.

Table 9: Ely Planning Committee

Name	Organization/Position
Denise Hoy—Primary Contact	City Administrator/City of Ely
Ronald Stark	Public Works/City of Ely
Scott Ladwig	Assistant Fire Chief/Ely Fire Department
Kevin Esmail	Plans and Exercise Specialist/Linn County EMA
Brad Malatek	Assistant Fire Chief/Ely Fire Department
Judy Wery	City Council/City of Ely
Eldy Miller	Mayor/City of Ely
Elizabeth Cwik	Program Officer/Greater Cedar Rapids Community Foundation

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

ELY COMMUNITY MEETING

Date

February 6, 2018

Time

6:30 PM

Location

City Hall
1570 Rowley St.
Ely, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Ely Community Meeting

February 6, 2018
6:30 p.m.–8:15 p.m.

Ely City Hall
1570 Rowley St.
Ely, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Five hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified Ely Manor as a facility that regularly hosts a vulnerable population.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/21/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Ely Community Meeting

Name	Jurisdiction and Title	Contact Information
Denise Hoy	City Admin City of Ely	319-848-4103
Ronald Stark	Public Works City of Ely	563-212-5665
Scott Ludwig	Asst Chief EFD	319-560-1062
Kevin Esmail	Linn County EMA	319-892-6504
Brad Mahdek	Asst Chief Ely Fire	519-521-5657
Judy Wery	City Council City of Ely	319-270-2351
Ely Miller	Mayor City of Ely	319-350-9231
Tom Griss	ECICOR Planner	319-365-9941
Elizabeth Clark	Greater CR Community Fund	319-774-2572

Date
February 6, 2018

Time
6:30 PM

Location
City Hall
1570 Rowley St.
Ely, Iowa

Fairfax Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Fairfax planning committee are included in Table 10 to provide context for how final mitigation strategies were identified.

Table 10: Fairfax Planning Committee

Name	Organization/Position
Cynthia Stimson—Primary Contact	City Clerk/Treasurer—City of Fairfax
Kevin Stensland	Water/Wastewater—City of Fairfax
Lynn Miller	Maintenance Supervisor/City of Fairfax
Brian Merta	Maintenance/City of Fairfax
Elizabeth Cwik	Program Officer/Greater Cedar Rapids Community Foundation

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

FAIRFAX COMMUNITY MEETING

Date

January 16, 2018

Time

8:00 AM

Location

City Hall
300 80th St. Ct.
Fairfax, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Fairfax Community Meeting

January 16, 2018
8:00 a.m.–9:00 a.m.

Fairfax City Hall
300 80th St. Ct.
Fairfax, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the city's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Two hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan, including utilities infrastructure and parks. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee did not identify any vulnerable populations in the city.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

12. Meeting minutes were completed by Tom Gruis on 2/5/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Fairfax Community Meeting

Name	Jurisdiction and Title	Contact Information
Cynthia Stinson	City of Fairfax - City Clerk/Treasurer	319-346-2264 cstinson@cityoffairfax.org
Kevin Stensland	City of Fairfax - Water Assistant	kstensland@cityoffairfax.org
Byron M. New	City of Fairfax - ^{Municipal} Supervisor	bnnew@cityoffairfax.org
Brian Merta	CITY OF FAIRFAX - Maintenance	bmerta@cityoffairfax.org
Tom Gruis	ECICIS, Planner	
Elizabeth Witek	Greater Cedar Rapids Con. Ven	elizabethwitek@qcr.org

Date
January 16, 2018

Time
8:00 AM

Location
City Hall
300 80th St. Ct.
Fairfax, Iowa

Hiawatha Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Hiawatha planning committee are included in Table 11 to provide context for how final mitigation strategies were identified.

Table 11: Hiawatha Planning Committee

Name	Organization/Position
Jon Galbraith	Buildings and Grounds/Cedar Rapids Community School District
Laurel Day	Administrator/Cedar Rapids Community School District
Mike Nesslage	Fire Chief/City of Hiawatha
Kelly Willadsen	Parks and Recreation Director/City of Hiawatha
Elizabeth Cwik	Program Officer/Greater Cedar Rapids Community Foundation
Marty Recker	Water Superintendent/City of Hiawatha
Rob Archibald	City Council/City of Hiawatha
Patrick Parsley	Community Development Director/City of Hiawatha
Dennis Marks	Police Chief/City of Hiawatha
Kim Downs—Primary Contact	City Administrator/City of Hiawatha
Kelly Kornegor	City Clerk/City of Hiawatha

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

HIAWATHA COMMUNITY MEETING

Date

January 16, 2018

Time

4:00 PM

Location

Conference Room D
City Hall
101 Emmons St.
Hiawatha, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Hiawatha Community Meeting

January 16, 2018
4:00 p.m.–5:00 p.m.

Hiawatha City Hall
101 Emmons St.
Hiawatha, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and decided it reflects current conditions and priorities. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified the Hiawatha Care Center, Promise House, Mercy Hospice House, REM, and all schools as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/5/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
 Hiawatha Community Meeting

Name	Jurisdiction and Title	Contact Information
Jan Galbraith	CRCSD - Buildings & Grounds	314-558-4115 jgalbraith@crk12.iowa.gov
Laurel Day	CR Schools - Administrator	314-558-2416 lday@cr.k12.iowa.gov
Mike Neslage	Hiawatha Fire Dept	319-393-1515 ext 2104 mneslage@hiawatha-iowa.gov
Kelly Willason	Hiawatha Parks & Rec	319-393-1513 ext 251 kwillason@hiawatha-iowa.gov
Elizabeth Gorka	Greater CR Community Force	elizabeth.gorka@crf.org
Marty Kasper	Hiawatha Water	marty.kasper@hiawatha-iowa.gov
Rob Archibald	Hiawatha City Council	RArchibald@Hiawatha-iowa.gov
Patrick Parsley	City of Hiawatha	pparsley@Hiawatha-Iowa.com CHIEF @ HIAWATHA POLICE
DENNIS MARKS	HIAWATHA POLICE DEPT.	
Kimi Downs	City of Hiawatha - Administrator	kdowns@hiawatha-iowa.com
Kelly Komesar	City of Hiawatha City Clerk	k.komesar@hiawatha-iowa.com
Tom Grubis	ECICOG Planner	314-365-9941

Date
 January 16, 2018

Time
 4:00 PM

Location
 Conference Room D
 City Hall
 101 Emmons St.
 Hiawatha, Iowa

Lisbon Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Lisbon planning committee are included in Table 12 to provide context for how final mitigation strategies were identified.

Table 12: Lisbon Planning Committee

Name	Organization/Position
Douglas O'Connor	Council Member/City of Lisbon
Kevin Esmail	Planner/Linn County EMA
Rick Scott	Police Chief/City of Lisbon
Travis Bagby	Public Works Director/City of Lisbon
Connie Meier—Primary Contact	City Administrator/City of Lisbon
Brandon Siggins	Fire Chief/City of Lisbon

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

LISBON COMMUNITY MEETING

Date

December 20, 2017

Time

3:00 PM

Location

Lisbon City Hall
115 N. Washington St.
Lisbon, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Lisbon Community Meeting

December 20, 2017
3:00 p.m.–4:35 p.m.

Lisbon City Hall
115 N. Washington St.
Lisbon, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City’s risk assessment. The consultant also provided the City’s risk assessment from the current countywide hazard

mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Four hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified City Park, Myers Meadows, and Lisbon Rehabilitation Center as facilities regularly hosting vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/5/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Lisbon Kickoff Meeting

Name	Jurisdiction and Title	Contact Information
Douglas O'Leary	Council member	
KEVIN ESMAN	Linn Co EMA Plans	Kevin.Esman@linncounty-ema.org 319-892-6504
Rick Scott	Lisbon Police DEPT.	rscoff@cityoflisbon-ia.org 319-213-5624
TRAVIS BAGBY	public works Dir.	319-415-2905
Connie Meier	City Admin - Lisbon	319-455-2459
BRANDON SIBBINS	FIRE CHIEF - LISBON	319-310-4316
Tom Gruij	ECOLOG Planner	319-365-9941

Date
December 20, 2017

Time
3:00 PM

Location
Lisbon City Hall
115 N. Washington St.
Lisbon, Iowa

Marion Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Marion planning committee are included in Table 13 to provide context for how final mitigation strategies were identified.

Table 13: Marion Planning Committee

Name	Organization/Position
Deb Krebill	Fire Chief/City of Marion
Ryan Miller	Public Service Director/City of Marion
Mike Carolan	Parks & Recreation Director/City of Marion
Todd Steigerwaldt	General Manager, Water/City of Marion
Mike Barkalow	Engineer/City of Marion
Lance Miller	Lieutenant, Police/City of Marion
Kesha Billings—Primary Contact	Associate Planner/City of Marion
Randy Strnad	City Council/City of Marion

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

MARION COMMUNITY MEETING

Date

January 23, 2018

Time

3:00 PM

Location

City Hall
Council Chambers B
1225 6th Ave.
Marion, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Marion Community Meeting

January 23, 2018
3:00 p.m.–4:00 p.m.

Marion City Hall
1225 6th Ave.
Marion, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Three hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. Marion also elected to adopt a tiered system for categorizing critical facilities, using the same criteria as Cedar Rapids. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The City of Marion will use a similar narrative to that in the currently adopted plan to describe the types of facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/21/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Marion Community Meeting

Name	Jurisdiction and Title	Contact Information
Don Krebill	MARION Fire Dept - Fire Chief	dkrebill@cityofmarion.org
Tom Miller	Marion Public Serv	tmiller@cityofmarion.org
Mike & CAROLAN	MARION Public Serv	mcarolan@cityofmarion.org
Todd Steigerwaldt	General Manager Water	tsteigerwaldt@cityofmarion.org
MIKE BARWALOW	MARION ENGINEER	mbarwalow@cityofmarion.org
Lanie Miller	MPD	lanie@marionpolice.com
Kesha Billings	Marion Planning	kbillings@cityofmarion.org
Randy Spahr	Marion City Council	rspahr@cityofmarion.org
Tom Gruis	ECICOG, Planner	tom.gruis@ecicog.org

Date
January 23, 2018

Time
3:00 PM

Location
City Hall
Council Chambers B
1225 6th Ave.
Marion, Iowa

Mount Vernon Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Mount Vernon planning committee are included in Table 14 to provide context for how final mitigation strategies were identified.

Table 14: Mount Vernon Planning Committee

Name	Organization/Position
Jules Scadden	Director/Lisbon-Mount Vernon Ambulance Service
Doug Shannon—Primary Contact	Chief of Police/City of Mount Vernon
Jeff Streitz	Cornell College
Karla Twedt-Ball	Senior Vice President/Greater Cedar Rapids Community Foundation
Chris Nosbisch	City Administrator/City of Mount Vernon
Nick Nissen	Public Works Director/City of Mount Vernon
Joe Jennison	Director/Mount Vernon-Lisbon Community Development Group
Mike Buser	EMA/Mount Vernon
Greg Batenhorst	Superintendent/Mount Vernon Community School District
Mark Winder	Cornell College

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

MOUNT VERNON COMMUNITY MEETING

Date

January 17, 2018

Time

4:00 PM

Location

City Hall
213 1st St. NW
Mount Vernon, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Mount Vernon Community Meeting

January 17, 2018
4:00 p.m.–5:15 p.m.

Mount Vernon City Hall
213 1st St. Ct.
Mount Vernon, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Two hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified all schools, the Hallmark Care Center, Chapel View, and Cornell College as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/5/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Mount Vernon Community Meeting

Name	Jurisdiction and Title	Contact Information
Jules Sadden	Linn County, Iowa	jsadden@linncounty.org
Doug Shannon	Mount Vernon Police Dept.	dshannon@cityofmtvernon.org
Jeff Stretz	Cornell College	jstretz@cornellcollege.edu
Tom Gruis	ECICOG	
Karla Tvedt-Ball	Community Foundation	karla.tvedt-ball@gercf.org
Chris Nasbisch	Mount Vernon, City Administrator	cnasbisch@cityofmtvernon.org
Nick Nissen	Mount Vernon, Public Works Director	nnissen@cityofmtvernon.org
Joe Jensen	MV-L, Director Main Street	director@visitmtvernon.com
Mike Busset	Mount Vernon, EMA	bussetk@aol.com
GREG BATEMAN	Mount Vernon Comm. School District	gbateman@mtvernon.org
Mark Winder	Cornell College	mwinder@cornellcollege.edu

Date
January 17, 2018

Time
4:00 PM

Location
City Hall
213 1st St. NW
Mount Vernon, Iowa

Palo Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Palo planning committee are included in Table 15 to provide context for how final mitigation strategies were identified.

Table 15: Palo Planning Committee

Name	Organization/Position
Mike Batz	Captain/Palo Fire Department
Trisca Dix—Primary Contact	City Administrator, City Clerk/City of Palo

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

PALO COMMUNITY MEETING

Date

April 12, 2018

Time

8:00 AM

Location

City Hall
2800 Hollenbeck Rd.
Palo, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Palo Community Meeting

April 12, 2018
8:00 a.m.–9:00 a.m.

Palo City Hall
2800 Hollenbeck Rd.
Palo, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's hazard priorities. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and determined the priority levels in the current plan are appropriate. No changes were made. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified some senior housing and a mobile home community as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 4/26/2018.

Prairieburg Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Prairieburg planning committee are included in Table 16 to provide context for how final mitigation strategies were identified.

Table 16: Prairieburg Planning Committee

Name	Organization/Position
William Sperfslage	Council Member/City of Prairieburg
Arlene Holub	Mayor/City of Prairieburg
Sondra Marsh	Council Member/City of Prairieburg
Mark Holub	Council Member/City of Prairieburg
Matt Melvin	Council Member/City of Prairieburg
Kay Beranek	Water Operator/City of Prairieburg
Mark Riard	City of Prairieburg
Karen Bixler—Primary Contact	City Clerk/City of Prairieburg

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

PRAIRIEBURG COMMUNITY MEETING

Date

May 8, 2018

Time

6:00 PM

Location

Prairieburg City Hall
109 W. Main St.
Prairieburg, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Prairieburg Community Meeting

May 8, 2018
6:00 p.m.–6:40 p.m.

Prairieburg City Hall
109 W. Main St.
Prairieburg, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City’s risk assessment. The consultant also provided the City’s risk assessment from the current countywide hazard

mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The planning committee changed the priority level for four hazards. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee did not identify any facilities as hosting vulnerable populations on a regular basis.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 5/29/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
 Prairieburg Community Meeting

Name	Jurisdiction and Title	Contact Information
William Spertstage	Prairieburg Iowa City Council	319-480-9590
Arlene Holub	Prairieburg Iowa	319-431-2511
Sandy March	Prairieburg, Ia	319-431-3465
Mark Holub	Prairieburg Ia Council	319-329-8865
Math Melvin	Prairieburg Ia Council	319-651-5862
Kay Beranek	water operator	319-480-5145
Mark Runk	none	319-310-6700
Karen Bixler	City of Prairieburg, Clerk	319-457-1444
Tom Gruis	ELHOG, Planner	319-365-9941

Date
 May 8, 2018

Time
 6:00 PM

Location
 Prairieburg City Hall
 109 W. Main St.
 Prairieburg, Iowa

Robins Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Robins planning committee are included in Table 17 to provide context for how final mitigation strategies were identified.

Table 17: Robins Planning Committee

Name	Organization/Position
Dick Pilcher	City Council/City of Robins
Chuck Hinz	Mayor/City of Robins
Kevin Esmail	Plans and Exercises/Linn County EMA
Neal Boeckmann	Fire Department, Public Works/City of Robins
Lori Pickart—Primary Contact	City Clerk, Treasurer/City of Robins
Vince Bading	Public Works Supervisor, Building Official/City of Robins

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

ROBINS COMMUNITY MEETING

Date

October 31, 2018

Time

9:00 AM

Location

Robins City Hall
265 S. 2nd St.
Robins, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Robins Community Meeting

October 31, 2018
9:00 a.m.–9:55 a.m.

Robins City Hall
265 S. 2nd St.
Robins, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. The committee felt the priority levels from the currently approved plan are appropriate for current conditions. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Several new locations were added to the list of critical facilities. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The City discussed the types of facilities that regularly host vulnerable populations. The committee added three vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 11/6/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Robins Community Meeting

Name	Jurisdiction and Title	Contact Information
Dick Pilcher	Robins City Council	pilcherzd@gmail
CHUCK HINZ	MAYOR	CHUCK.HINZ@CITYOFROBINS.ORG
KEVIN ESMAEL	Linn County EMA	CITYOFROBINS.ORG
NEAL BOECKMANN	ROBINS FIRE / PUBLIC WORKS	NEALBOECKMANN@gmail.com
LOIS PICKART	City Clerk / Treasurer	lon@cityofrobins.org
Vince Bading	Public Works Super/Bldg official	VINCE@CITYOFROBINS.ORG
Tom Gruis	ECICOG/ Planner	tom.gruis@ecicog.org

Date
October 31, 2018

Time
9:00 AM

Location
Robins City Hall
265 S. 2nd St.
Robins, Iowa

Springville Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Springville planning committee are included in Table 18 to provide context for how final mitigation strategies were identified.

Table 18: Springville Planning Committee

Name	Organization/Position
Lyle Anderson—Primary Contact	Councilperson/City of Springville
Roger Shebetka	Mayor/City of Springville
PJ Hoyt	Fire Chief/Springville Fire Department
Tim Roehck	Linn Co-op
Kevin Esmail	Plans and Exercises/Linn County EMA
Pat Hocking	Superintendent/Springville Community School District
Todd Wyman	Public Works Director/City of Springville
Elizabeth Cwik	Program Office/Greater Cedar Rapids Community Foundation

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

SPRINGVILLE COMMUNITY MEETING

Date

July 12, 2018

Time

2:00 PM

Location

Springville City Hall
304 Broadway St.
Springville, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Springville Community Meeting

July 12, 2018
2:00 p.m.–3:25 p.m.

Springville City Hall
304 Broadway St.
Springville, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Four hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. Some additional locations were added to the list of critical facilities. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The City discussed the types of facilities that regularly host vulnerable populations and added several locations. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the vulnerable populations list.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 10/8/2018.

Springville Hazard Mitigation Meeting
July 12, 2018
2:00 PM

Lyle Andersen	City Council
Roger Shebetka	Mayor
Scott Smith	Fire Chief
Tim Roelack	Linn Coop
Kevin Esman	Linn Ena
PAT Hocking	SUPERINTENDENT
TODD WYMAN ^A	PUBLIC WORKS DIRECTOR
Elizabeth Clark	Greater Cedar Rapids Community Foundation
Tom Gruts	Planner, ECICOG

Walker Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Walker planning committee are included in Table 19 to provide context for how final mitigation strategies were identified.

Table 19: Walker Planning Committee

Name	Organization/Position
Kevin Shoop	Public Works Department/City of Walker
Will Sherbor	Fire Department/City of Walker
James Voss	Mayor/City of Walker
Connie Helms—Primary Contact	City Clerk, Treasurer/City of Walker

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

WALKER COMMUNITY MEETING

Date

February 16, 2018

Time

1:00 PM

Location

City Hall
408 Rowley St.
Walker, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Walker Community Meeting

February 16, 2018
1:00 p.m.–2:00 p.m.

Walker City Hall
408 Rowley St.
Walker, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The city’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the City's risk assessment. The consultant also provided the City's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Three hazards' priority levels were changed. Refer to the City's summary documentation for the risk assessment criteria, countywide risk assessment, the City's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the City's mitigation strategy. Some changes will be made from the previously adopted plan. The consultant will update the plan map to reflect those changes. Refer to the City's summary documentation for the updates to the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified Friends, Inc. as a facility that regularly hosts a vulnerable population.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the City is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the City's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New mitigation strategies were discussed. Refer to City's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the City's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions. Refer to the City's summary documentation for the prioritization of the mitigation strategies.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The City and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the City will not need to take any additional action

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

until the final draft of the plan is available for public comment. The public comment period will be the final chance for the City to provide feedback and request changes before the plan is submitted for review and approval. The City will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the City after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/21/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Walker Community Meeting

Name	Jurisdiction and Title	Contact Information
Kevin Sheaf	CITY of Walker Pwd	319-310-6685
Will Sheehan	Fire Dept	319-721-3780
James Lee	Mayor / Fire Dept	319-929-1060
Connie Helms	City Clerk / Treasurer	319-448-4359
Tom Conis	ECOLOG / Planner	319-365-0941

Date
February 16, 2018

Time
1:00 PM

Location
City Hall
408 Rowley St.
Walker, Iowa

Alburnett Community School District Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Alburnett CSD planning committee are included in Table 20 to provide context for how final mitigation strategies were identified.

Table 20: Alburnett CSD Planning Committee

Name	Organization/Position
Corey Arment	Building and Grounds Supervisor/Alburnett CSD
Ken Kasper	Secondary Principal/Alburnett CSD
Dani Trimble—Primary Contact	Superintendent/Alburnett CSD
Karla Twedt-Ball	Great Cedar Rapids Community Foundation/Senior Vice President
Yon Able	School Board Member/Alburnett CSD

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

ALBURNETT CSD COMMUNITY MEETING

Date

January 25, 2018

Time

9:00 AM

Location

District Office
131 Roosevelt St.
Alburnett, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Alburnett CSD Community Meeting

January 25, 2018
9:00 a.m.–10:00 a.m.

Alburnett CSD District Office
131 Roosevelt St.
Alburnett, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The District’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for creating the District’s risk assessment. The planning committee reviewed the risk assessment and set priority levels to reflect current conditions and priorities. Additional discussion was held. Refer to the District’s summary documentation for the risk assessment criteria, countywide risk assessment, the District’s risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the District’s mitigation strategy. Refer to the District’s summary documentation for the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified all schools and the baseball field as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the District is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The committee discussed possible mitigation projects that could reduce future losses during future hazard events. Refer to District’s summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the District’s mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The District and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the District will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the District to provide feedback and request changes before the plan is submitted for review and approval. The District will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the District after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/21/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Alburnett CSD Community Meeting

Name	Jurisdiction and title	Contact Information
Corey Arment	Building and Ground Supervisor	(641) 821-5685
Ken Kasper	Secondary Principal	(641) 590-4583
Dani Trimble	Superintendent	(319) 842-2266
Karla Tweed-Bull	Community Foundation	319-774-2371
Yon Abel	School Board Member	319-897-6196
Tom Gruis	ECICOG, Planner	319-365-9941

Date
January 25, 2018

Time
9:00 AM

Location
District Office
131 Roosevelt St.
Alburnett, Iowa

Cedar Rapids Community School District Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Cedar Rapids CSD planning committee are included in Table 21 to provide context for how final mitigation strategies were identified.

Table 21: Cedar Rapids CSD Planning Committee

Name	Organization/Position
Mary Meisterling	Board Member/Cedar Rapids CSD
Chuck Perry	Maintenance Supervisor/Cedar Rapids CSD
Jon Galbraith	Buildings and Grounds Manager/Cedar Rapids CSD
EJ Brink	Buildings and Grounds/Cedar Rapids CSD
Laurel Day—Primary Contact	Assistant to the Superintendent, Board of Education Secretary/Cedar Rapids CSD

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

CEDAR RAPIDS CSD COMMUNITY MEETING

Date

January 23, 2018

Time

8:30 AM

Location

Educational Leadership and Support Center
2500 Edgewood Rd. NW
Cedar Rapids, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Cedar Rapids CSD Community Meeting

January 23, 2018
8:30 a.m.–9:20 a.m.

Educational Leadership and Support Center
2500 Edgewood Rd. NW
Cedar Rapids, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The District’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for creating the District’s risk assessment. The planning committee reviewed the risk assessment and set priority levels to reflect current conditions and priorities. The Superintendent and Interim Buildings & Grounds Director had attended a previous local planning meeting and met separately to discuss appropriate priority levels for the District. Additional discussion was held. Refer to the District’s summary documentation for the risk assessment criteria, countywide risk assessment, the District’s risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the District’s mitigation strategy. Refer to the District’s summary documentation for the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified all schools and Kingston Stadium as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the District is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The committee discussed possible mitigation projects that could reduce future losses during future hazard events. Refer to District’s summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the District’s mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The District and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the District will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the District to provide feedback and request changes before the plan is submitted for review and approval. The District will be asked

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the District after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/5/2018.

Center Point-Urbana Community School District Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Center Point-Urbana CSD planning committee are included in Table 22 to provide context for how final mitigation strategies were identified.

Table 22: Center Point-Urbana CSD

Name	Organization/Position
Matt Post	Director of Facilities and Grounds/Center Point-Urbana CSD
Rob Libolt	Principal, High School/Center Point-Urbana CSD
Jennifer Burkhart	Director of Technology and Instruction/Center Point-Urbana CSD
Matt Berninghaus—Primary Contact	Superintendent/Center Point-Urbana CSD
Elizabeth Cwik	Greater Cedar Rapids Community Foundation/Program Officer

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

CENTER POINT-URBANA COMMUNITY MEETING

Date

January 29, 2018

Time

11:00 AM

Location

District Office
145 Iowa St.
Center Point, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Center Point-Urban CSD Community Meeting

January 29, 2018
11:00 a.m.–12:00 p.m.

Center Point-Urbana CSD District Office
145 Iowa St.
Center Point, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The District’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the District's risk assessment. The consultant also provided the District's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Two hazards' priority levels were changed. Refer to the District's summary documentation for the risk assessment criteria, countywide risk assessment, the District's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the District's mitigation strategy. Refer to the District's summary documentation for the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified all schools and Frost Park (a city property where soccer games are held) as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the District is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the District's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New strategies were also discussed. Refer to District's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the District's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The District and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the District will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the District to provide feedback and request

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

changes before the plan is submitted for review and approval. The District will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the District after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/21/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Center Point-Urbana Community Meeting

Name	Jurisdiction and Title	Contact Information
Matt Post	CPU Schools	mpost@cpuschools.org
Rob Kraus	HS Principal C.C.P.	rkraus@cpuschools.org
Jennifer Burkhardt	CPU Director Currie	jburkhardt@cpuschools.org
Mike Beckwith	CPU District, Superintendent	mbeckwith@cpuschools.org
Elizabeth Cook	Greater CR Community Center	elizabeth.cook@greatercr.org
Tom Grubis	ECI/OG, Planner	319-365-9941

Date
January 29, 2018

Time
11:00 AM

Location
District Office
145 Iowa St.
Center Point, Iowa

College Community School District Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the College CSD planning committee are included in Table 23 to provide context for how final mitigation strategies were identified.

Table 23: College CSD Planning Committee

Name	Organization/Position
Jim Rotter—Primary Contact	Board Secretary/College CSD
Kevin Esmail	Plans and Exercise Specialist/Linn County EMA
John Speer	Superintendent/College CSD
Duane Carver	Director of Buildings and Grounds/College CSD

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

COLLEGE CSD COMMUNITY MEETING

Date

December 21, 2017

Time

8:30 AM

Location

College CSD District Office
401 76th Ave. SW
Cedar Rapids, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
College CSD Community Meeting

December 21, 2017
8:30 a.m.–9:20 a.m.

District Office
401 76th Ave. SW
Cedar Rapids, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The District’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for reviewing and updating the District's risk assessment. The consultant also provided the District's risk assessment from the current countywide hazard mitigation plan. The planning committee reviewed the risk assessment and updated priority levels to reflect current conditions and priorities. Two hazards' priority levels were changed. Refer to the District's summary documentation for the risk assessment criteria, countywide risk assessment, the District's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the District's mitigation strategy. Refer to the District's summary documentation for the critical facilities list.

7. Review and update vulnerable populations

The planning committee identified all schools and athletic fields as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the District is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The planning committee reviewed the District's mitigation strategy in the current hazard mitigation plan by discussing progress, lack of progress due to feasibility, and whether future action is needed. New strategies were also discussed. Refer to District's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the District's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The District and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the District will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the District to provide feedback and request

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

changes before the plan is submitted for review and approval. The District will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the District after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 2/5/2018.

Linn-Mar Community School District Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Linn-Mar CSD planning committee are included in Table 24 to provide context for how final mitigation strategies were identified.

Table 24: Linn-Mar CSD Planning Committee

Name	Organization/Position
Jeri Ramos	Technology Director/Linn-Mar CSD
Sandra Nelson	President/Linn-Mar School Board
Brian Cruise	Transportation Manager/Linn-Mar CSD
Steve Nelson	Operations and Maintenance/Linn-Mar CSD
Kevin Esmail	Plans and Exercises/Linn County EMA
J.T. Anderson—Primary Contact	CFO, COO/Linn-Mar CSD
Quintin Shepherd	Superintendent/Linn-Mar CSD

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

LINN-MAR CSD COMMUNITY MEETING

Date

March 8, 2018

Time

1:30 PM

Location

Learning Resource Center
2999 N. 10th St.
Marion, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Linn-Mar CSD Community Meeting

March 8, 2018
1:30 p.m.–2:30 p.m.

Learning Resource Center
2999 N. 10th St.
Marion, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The District’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for creating the District's hazard priorities. The planning committee reviewed the risk assessment and set priority levels to reflect current conditions and priorities. Refer to the District's summary documentation for the risk assessment criteria, countywide risk assessment, the District's risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified critical facilities to be considered in the District's mitigation strategy. Refer to the District's summary documentation for the list.

7. Review and update vulnerable populations

The planning committee identified all schools and athletic facilities as facilities that regularly host vulnerable populations.

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the District is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The committee discussed possible mitigation projects that could reduce future losses during future hazard events. Refer to District's summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the District's mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The District and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the District will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the District to provide feedback and request changes before the plan is submitted for review and approval. The District will be asked to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the District after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 4/26/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
 Linn-Mar Community School District Community Meeting

Name	Jurisdiction and Title	Contact Information
Jeri Ramos	LMCSD - Tech Dir	jramos@linmar.k12.ia.us
Sandra Nelson	President of LMSB	snelson@linmar.k12.ia.us
Brian Cause	LMSB TRMS	Bcause@linmar.k12.ia.us
Steve Nelson	Linn-Mar O&M	snelson@linmar.k12.ia.us
Kevin Esmail	Linn County Emergency Mgmt	Kevin.Esmail@linn-county-emergency.com 319-882-6504
J.T. Anderson	LMSB - CFO/COO	janderson@linmar.k12.ia.us
Quentin Shepherd	LMSB - Superintendent	qshepherd@linmar.k12.ia.us
Tom Guis	ECICOL/ Planner	tom.guis@ecicog.org

Date
 March 8, 2018

Time
 1:30 PM

Location
 Learning Resource
 Center
 2999 N. 10th St.
 Marion, Iowa

Mount Vernon Community School District Planning Committee and Meeting Documentation

In this multi-jurisdictional planning process, a planning committee was established to ensure the final plan reflects local capabilities, conditions, and priorities in each community. The composition of planning committees throughout Linn County varies due to type, size, and past planning efforts in each community. The members of the Mount Vernon CSD planning committee are included in Table 25Table 24 to provide context for how final mitigation strategies were identified.

Table 25: Mount Vernon CSD Planning Committee

Name	Organization/Position
Chris Noll	Grounds and Maintenance/Mount Vernon CSD
Sean Flockhart	Technology Director/Mount Vernon CSD
Rick Elliott	Board of Education/Mount Vernon CSD
Kevin Esmail	Plans and Exercises/Linn County EMA
Doug Shannon	Chief/Mount Vernon Police Department
Greg Batenhorst—Primary Contact	Superintendent/Mount Vernon CSD
Matt Thede	Assistant High School Principal & Activities Director/Mount Vernon CSD
Denny Gross	Transportation Director/Mount Vernon CSD

Meeting documentation is included in the following pages. Documentation includes public notice, combined agenda and minutes, and sign-in sheet.

PUBLIC MEETING NOTICE

LINN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

MOUNT VERNON CSD COMMUNITY MEETING

Date

February 27, 2018

Time

1:30 PM

Location

District Office
525 Palisades Rd. SW
Mount Vernon, Iowa

For more information, please contact Tom Gruis at the East Central Iowa Council of Governments by email at tom.gruis@ecicog.org or by phone at 319-365-9941 ext. 130.



EAST CENTRAL IOWA
COUNCIL OF GOVERNMENTS
YOUR REGIONAL PLANNING AGENCY

Meeting Minutes

Linn County Hazard Mitigation Plan
Mount Vernon CSD Community Meeting

February 27, 2018
1:30 p.m.–2:15 p.m.

Mount Vernon CSD District Office
525 Palisades Rd. SW
Mount Vernon, Iowa

1. Consultant and planning committee introductions

The consultant, Tom Gruis, introduced himself as a planner with the East Central Iowa Council of Governments (ECICOG). The consultant was hired to administer and complete the requirements of Linn County’s hazard mitigation grant that is funding the update to the multi-jurisdictional hazard mitigation plan. The District’s planning committee members introduced themselves and explained their role and experience with the community. Refer to the sign-in sheet.

2. Hazard mitigation planning overview

The consultant explained the purpose and benefits of participating in a FEMA-approved hazard mitigation plan—primarily the identification of hazards and developing a mitigation strategy reduce negative impacts.

3. Hazard Mitigation Assistance funding programs overview

The consultant explained that local governments with a FEMA-approved hazard mitigation plan are eligible to apply for Hazard Mitigation Assistance (HMA) funding, which includes Pre-Disaster Mitigation (PDM) funding, Hazard Mitigation Grant Program (HMGP) funding, and Flood Mitigation Assistance (FMA) funding. PDM and FMA funds are available on an annual basis, and HMGP funds are available when there is a federal disaster declaration anywhere in Iowa. All HMA funding requires a local match, which is typically 25% of the total project cost. The consultant stated that the first step in applying for any of the grants is to submit a Notice of Interest to the Iowa Homeland Security and Emergency Management Department.

4. Linn County Multi-Jurisdictional Hazard Mitigation Plan goals

The consultant shared that at the countywide Kickoff Meeting, all jurisdictions supported adopting the same goals for the update to the plan. A slightly modified set of goals that was used by a majority of jurisdictions in the previously approved plan was accepted for all jurisdictions for the update to the plan.

5. Review and update risk assessment

The consultant provided a countywide risk assessment completed with recent data and maps to use as a guide for creating the District’s risk assessment. The planning committee reviewed the risk assessment and set priority levels to reflect current conditions and priorities. The Superintendent had attended a previous local planning meeting and met separately with the planning committee to discuss appropriate priority levels for the District. Additional discussion was held. Refer to the District’s summary documentation for the risk assessment criteria, countywide risk assessment, the District’s risk assessment from the current plan, and the updated risk assessment with an explanation of the updated priority levels.

6. Review and update critical facilities

The planning committee identified all critical facilities to be considered in the District’s mitigation strategy. Refer to the District’s summary documentation for the critical facilities list.

7. Review and update vulnerable populations

The planning committee

8. Review and update operations and resources

The planning committee discussed current operations and resources to determine how the District is reducing the negative impacts of hazards in normal operations.

9. Review and update mitigation strategy

The committee discussed possible mitigation projects that could reduce future losses during future hazard events. Refer to District’s summary documentation for the final mitigation strategy developed by the planning committee.

10. Prioritize mitigation strategy

The planning committee prioritized the District’s mitigation strategy by discussing the costs, benefits, and realistic timeline for completing mitigation actions.

11. Discuss next steps in plan development process

The planning consultant explained the next step in the update process, which is to provide a summary of everything discussed during the meeting. The District and planning committee will be expected to review the summary and provide feedback. The plan update is a multi-year process, and the District will not need to take any additional action until the final draft of the plan is available for public comment. The public comment period will be the final chance for the District to provide feedback and request changes before the plan is submitted for review and approval. The District will be asked

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

to adopt the plan by resolution after the plan is submitted to FEMA. A copy of the plan will be provided to the District after the plan is officially approved by FEMA.

Meeting minutes were completed by Tom Gruis on 4/26/2018.

Meeting Attendance

Linn County Multi-Jurisdictional Hazard Mitigation Plan
Mount Vernon CSD Community Meeting

Name	Jurisdiction and Title	Contact Information
Chris Noll	Mt. Vernon School ^{Coordinating} ^{Member}	CNOLL@MVCSD.ORG
Sean Flockhart	Mt. Vernon School / Technology Director	SFlockhart@mtvcsd.org
Neil Fickell	MV School Board	MVFICKELL@MVCSD.ORG
Kevin Esmail	Linn County Emergency Mgmt.	KEVIN.ESMAIL@LINN-COUNTY-IA.GOV
Tom Spris	ECICOG Planner	
Doug Shannon	MUPD	dshannon@cityofmtvernon-ia.org
GREG BATEMAN	MVCSD	gbateman@mtvcsd.org
Matt Thede	MVCSD (HS AD/OP)	mthede@mtvcsd.org

Date
February 27, 2018

Time
1:30 PM

Location
District Office
525 Palisades Rd. SW
Mount Vernon, Iowa

Appendix D—EnvisionCR Hazard Mitigation Section

PROTECTOR



PROTECTOR focuses on how to protect the city from hazards, and how to provide quality public facilities and infrastructure. In the aftermath of the 2008 floods, flood control is still a primary focus for the city. Cedar Rapids will continue to implement existing flood recovery and mitigation plans.

As Cedar Rapids grows, maintaining efficiency and quality of infrastructure and public services will be major priorities. Cedar Rapids will need to strike a balance between providing new services in growth areas, and maintaining older infrastructure in existing neighborhoods in the core of the city.



PROTECTOR GOALS

1. Protect Cedar Rapids from flooding and other hazards.
2. Manage growth and development to balance costs and serviceability to neighborhoods.
3. Maintain and provide quality services to the community.
4. Demonstrate best practices in building construction.

100 ENVISION

Appendix | 524



GOAL 1: Protect Cedar Rapids from flooding and other hazards.

In 2008, Cedar Rapids experienced millions of dollars in damage due to flooding. The community has engaged in a multitude of planning processes and initiated countless infrastructure projects to reduce the incidence of flooding and ensure community residents and homes are protected against flood events. Cedar Rapids has taken a three part recovery approach:

1. Improve Flood Control
2. Reinvest In Housing, Businesses & Neighborhoods
3. Rebuild Public Facilities

Some of the most densely populated areas of the community, including the downtown, are in the floodplain. These areas need protection and Cedar Rapids is implementing a strategic approach to development to minimize flood risk.

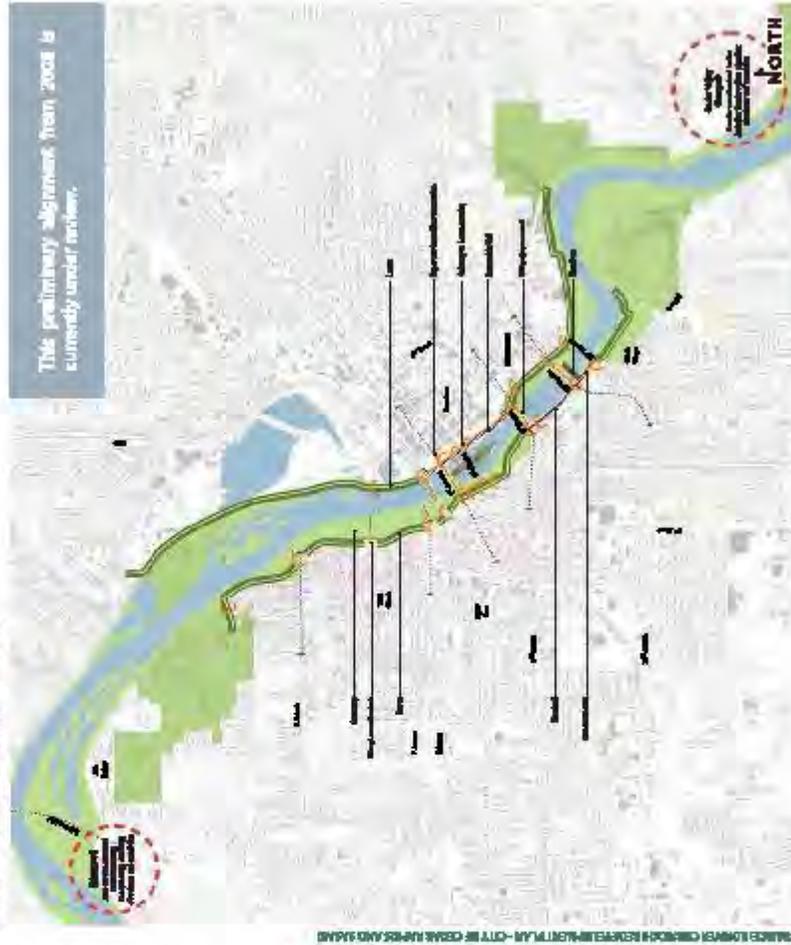
Flood Recovery Plan

Shortly after the floods of 2008, the City Council approved a flood control recovery plan to help with immediate recovery and future control of flood risk. This plan is summarized in Map 1.

Also in 2008, the Council adopted a set of goals that eventually developed into a full plan for flood recovery. The plan was based on four primary tenets including "Flood Management & Protection Strategies." This focused on "developing and implementing strategies to minimize and/or eliminate the threat of future flood events in Cedar Rapids."

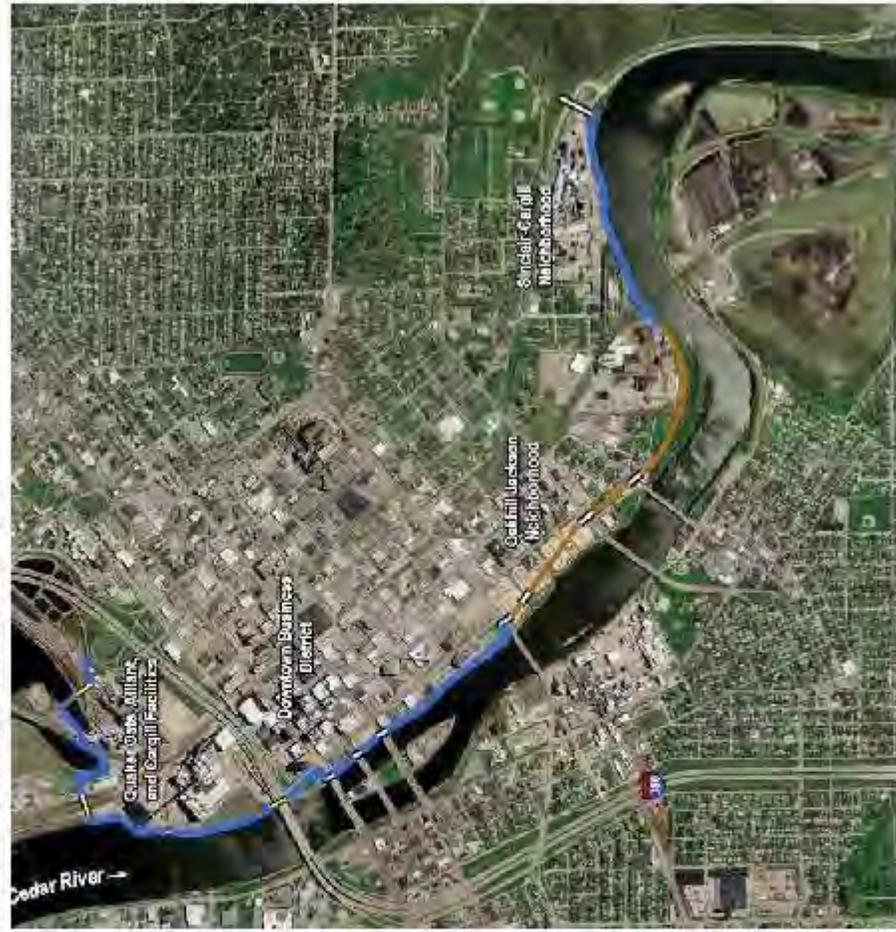
A first step in achieving this goal was to perform a feasibility study of Cedar River Flood protection, in cooperation with the US Army Corps of Engineers (USACE). This was completed in 2011 and established where flood control measures and infrastructure should be constructed based on Federal rules. The study evaluated several alternatives and recommended a flood control system that features

MAP 1: Preliminary Flood Control Plan (2008)



PROJECTOR: MR

MAP 2: USACE Preferred Scenario for Flood Protection, Cedar River



concrete floodwalls, earthen levees, closure structures and pump stations. The system would protect up to a height of 32.4 feet, slightly higher than the flood crest in 2008. Figure 2 shows a map summarizing the system.

The recovery plan also recommended the following:

- **Barrier Installation:** Authorize purchase of materials and equipment necessary to install barriers that will protect the city up to a 20-foot flood stage.
- **Community Rating System:** Pursue a coordinated effort with the National Flood Insurance Program (part of FEMA) to qualify Cedar Rapids properties for flood insurance discounts, through implementation of elements of the flood management plan and coordination with existing city ordinances.
- **Legacy Watershed Management and Watershed Study:** Work with the United States Army Corps of Engineers to study the historic upstream and downstream watershed practices and management.
- **Storm Water Management Plan:** Update the storm water management plan on a regular basis to reflect flood management goals.

In 2014, Cedar Rapids received an award of \$264 million to help carry out flood control plans. These include the construction of 6.24 miles of levee and floodwalls (permanent and removable), 11 pump stations, 21 roadway and railroad gate closures, improvements to a flood prone bridge (elevation of approaches), and design on a second river crossing. The city is currently holding public meetings to aid in finalizing the alignment and design.

In summary, Cedar Rapids has completed extensive planning for flood control, and initiatives have been underway for years. The city will continue to support the implementation of recovery planning efforts.

NO ENVIRONMENT



Linn County Multi-Jurisdictional Hazard Mitigation Plan

In addition to flooding, the city is committed to protecting the community against other potential hazards. The Linn County Multi-Jurisdictional Hazard Mitigation Plan identifies hazards that the city should prepare for based on an assessment of hazards by probability of occurrence, severity and other factors. The plan notes the following as “high priority” hazards for Cedar Rapids: river flood, thunderstorm, lightning and hail, drought, severe winter storm, tornado and windstorm, and flash flooding.

The Linn County Multi-Jurisdictional Hazard Mitigation Plan provides additional guidance on protecting residents and their property from flooding and many other possible hazards. The goals of the plan are to:

- Minimize injuries and loss of life.
- Reduce or eliminate damages due to natural and technological hazards.

- Manage operations with or without county, state, and federal assistance.
- Return to pre-hazard event conditions in a timely and planned manner.

As the plan points out, many of the hazard threats are already addressed by ongoing city operations. For example, the city protects against infrastructure failure through the regular inspections and maintenance by the Public Works department.

However, the plan recommends a number of mitigation actions for Cedar Rapids, focusing on addressing its high priority hazards. These recommendations implement Goal 1, and include the following (list not comprehensive):

- Complete phases of the city’s Permanent Flood Protection Project.
- Complete the addition of 21 gate closures and 11 pump stations.
- Implement Permanent Flood Protection Project through property acquisition and/or demolition.

- Install flood warning system on Indian Creek
- Expand the city’s warning siren system.
- Add detention basins to increase stormwater management capacity.
- Construct safe rooms in public facilities and recreation areas.
- Complete Edgewood bridge improvements.

The Linn County Multi-Jurisdictional Hazard Mitigation Plan and any future versions of this plan should be considered a part of EvictionCR.

Cedar Rapids has undertaken extensive planning for hazard mitigation, with special focus on protection against floods. Implementation of these existing plans, paired with implementation of the natural stormwater management recommendations in “GreenCR” will help to achieve the city’s goal of hazard protection.

INITIATIVES

1. Coordinate the use of Flood Mitigation Program funds for the Flood Control Project.

The city received \$264 million from the state Flood Mitigation Program that needs to be tracked to coordinate the completion of the Flood Control Project.

2. Amend the Future Land Use Map to reflect planned land use based on the adopted flood control alignment.

The Future Land Use Map will need to be updated to reflect the City Council adopted Flood Control Project alignment.

3. Identify and track completion of Priority One Level Cedar Rapids Mitigation Strategies from the Linn County Multi-Jurisdictional Hazard Mitigation Plan.

Tables in the Appendix show how hazards are addressed by operations, the city's hazard mitigation strategy, mitigation actions, completed mitigation actions, benefit cost criteria, mitigation action priority level, and the city's action plan.

4. Prepare Watershed Management Plans that provide improved aquatic habitats, recreational opportunities, and increased public access to natural resources, while maintaining necessary levels of flood control



through coordination with appropriate stakeholders, including state and federal agencies, and other jurisdictions.

Refer to GreenCR for discussion of natural stormwater management through the use of "greenways." Preservation of floodplains, wetlands, stream buffers, and other critical natural areas will create a system of greenways that allow for natural water drainage and will help protect against flooding.

Develop a Wastewater Collection Master Plan. (Completed - 2016)

Initiate a plan to measure, monitor, and manage wastewater collection for the city.

Develop Watershed Stormwater Drainage Master Plan. (Completed - 2016)

Initiate a plan to measure, monitor, and manage stormwater drainage for the city's watersheds.

Appendix E—Cedar Rapids Repetitive Loss Area Analysis

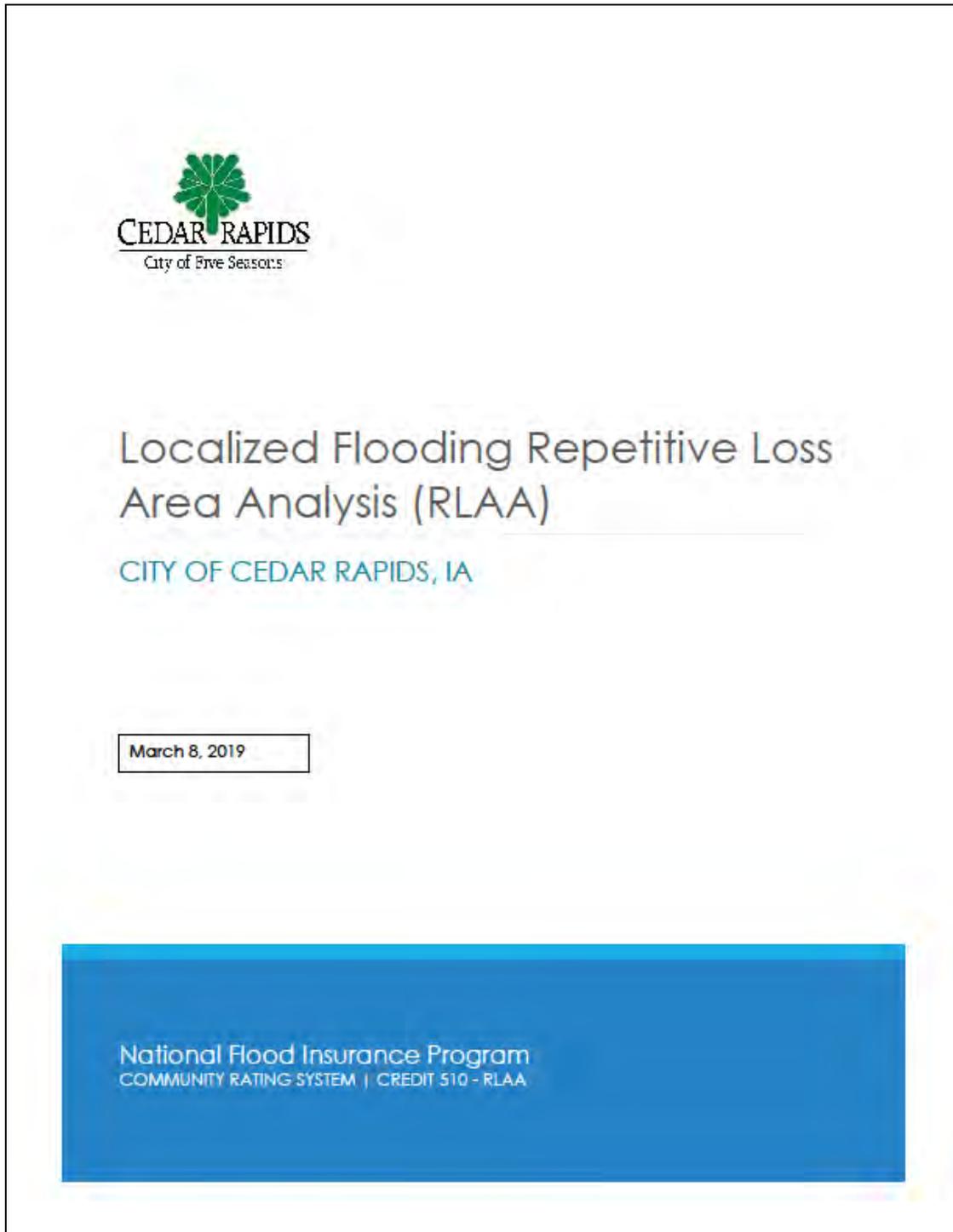


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Purpose of this Document

A repetitive loss area analysis (RLAA) is a detailed mitigation plan for a Repetitive Loss Area (RLA). It provides more specific guidance on how to reduce damage from repetitive flooding than a community-wide floodplain management or hazard mitigation plan. Its purpose is to identify concrete ways in which specific flooding hazards causing repetitive damage and NFIP insurance claims can be mitigated.

The RLAA Process

This report follows the guidance and format provided in the [CRS Manual](#). This document outlines specific steps to be followed in order to lead to appropriate and prioritized mitigation strategies.

Step 1: Contact Property Owners

The City of Cedar Rapids wrote to all identified property owners in all of the identified Repetitive Loss Areas (RLAs) in January 2018. The letter is provided in [Appendix 1](#) for reference. It requested that recipients provide input on flooding issues associated with their property. No specific feedback was received as a result of this effort. However, the author, by virtue of his position within the City has had, over a period between April 2014 and August 2018, dialogue with property owners regarding flood events, within most of the RLAs identified. Some of this knowledge has assisted in identifying specific mitigation strategies proposed in this document. The following table summarizes each identified RLA. The RLA's are numbered in no particular order. Outreach letters were sent to all properties within each of the RLAs.

Area	Repetitive Loss Properties	Severe Repetitive Loss Properties	Total # of Properties
1.	5 (*1)	0	517
2.	4 (*2)	0	470
3.	2 (*1)	0	103
4.	1	0	22
5.	1	0	8
6.	1	0	14
7.	1	0	31
8.	2	0	298
9.	1	0	13
10.	1	0	19
11.	1	0	12
12.	1	0	45
13.	2	0	44
14.	1	0	11
15.	1	0	105
TOTALS	25 (*incl. 4 mitigated)	0	1712

DEFINITIONS

Repetitive loss property:

A property for which two or more National Flood Insurance Program losses of at least \$1,000 each have been paid within any 10-year rolling period since 1978.

Severe Repetitive Loss property:

As defined in the Flood Insurance Reform Act of 2004, those 1–4 family properties that have had four or more claims of more than \$5,000 or two to three claims that cumulatively exceed the building's value. For the purposes of the CRS, non-residential buildings that meet the same criteria as for 1–4 family properties are considered Severe Repetitive Loss properties.

Step 2: Contact Other Agencies

The purpose of this step is to contact agencies or organizations that may have plans or studies that could affect the cause or impacts of the flooding. There are a number of efforts that are noteworthy for this step:

1. The US Army Corp of Engineers has studied the Indian Creek and its associated flooding challenges, in the report entitled "Indian Creek Watershed – Floodplain Mapping Project". The document is linked here: <https://bit.ly/2DsSc4O>. The purpose of this study was to use detailed methods to determine a more accurate floodplain boundary, when compared to FEMA's most recent and locally adopted Flood Insurance Study (FIS). See Figure 2:1 for an extract from the report, when compared to RLA #7 – Cottage Grove SE.

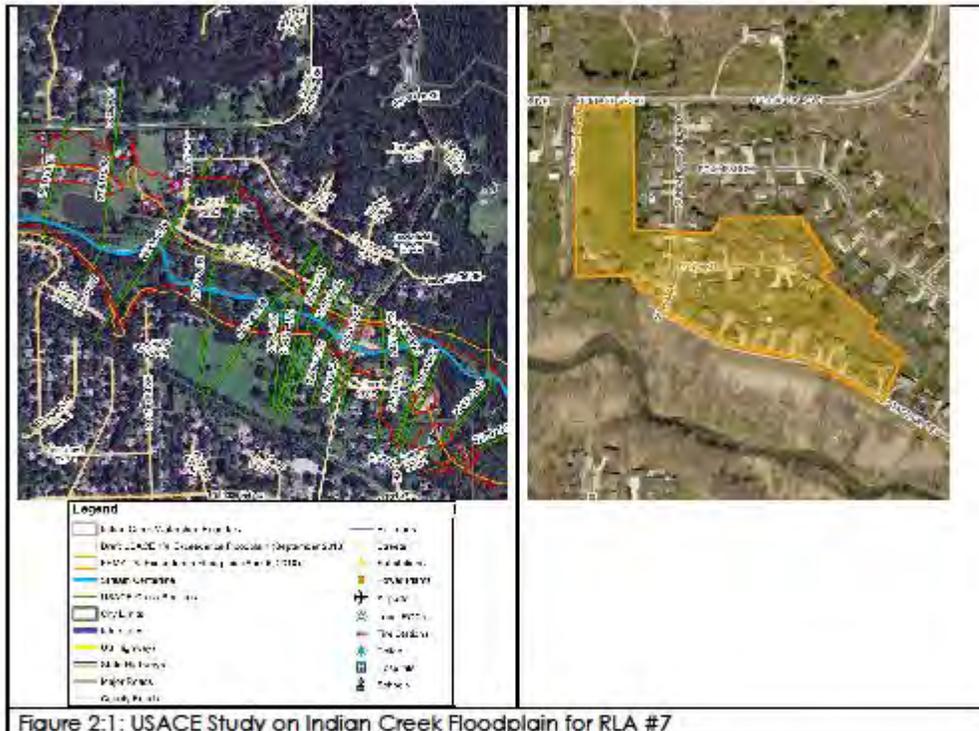


Figure 2:1: USACE Study on Indian Creek Floodplain for RLA #7

2. The Indian Creek Watershed Management Authority has put together a masterplan for the Indian Creek watershed, which includes strategies to reduce flooding within that watershed. The document is linked here: <http://www.indiancreekwma.org/the-plan.html>.
3. The City has been working closely with its consultant, HDR Engineering, Inc. to put together a comprehensive "Stormwater Masterplan Document". The City began development of the updated master plan in June of 2015. This effort includes a hydraulic model that will serve as a platform to better define needs and consider cost-effective solutions to stormwater issues within the City limits. The hydraulic modeling is performed at two scales.

- A citywide “macro-level” model which provides an overall picture of which areas of the city experience stormwater conveyance challenges, and how widespread a particular issue is (measured in city blocks and/or square miles)
- Detailed “basin-level” models, where each drainage basin is analyzed in detail using topographic and detailed stormwater conveyance system data to more precisely pinpoint street and property flooding severities.

Work on the masterplan to date has allowed insight into each and every identified RLA. The published sections of the City’s Stormwater Masterplan can be found here:

http://www.cedar-rapids.org/local_government/departments_government/public_works/stormwater_master_plan.php

4. The City is in the process of developing and constructing its “Flood Control System” (FCS) – a collection of levees, floodwalls and gates through the downtown core. As part of the design process, it’s consultants (HR Green and Stanley Consultants) along with their sub-consultants developed an up to date model of the Cedar River. This model analyzes the effect of the constructed line of protection on both sides of the river, acknowledging that this constriction of flow will raise the water surface elevation relative to its unrestricted state. Details on the City’s FCS can be found here: http://www.cedar-rapids.org/local_government/departments_government/public_works/cedar_river_flood_control_system.php

No other relevant studies are known about by the author of this RLAA report.

Step 3: Collect Data

All of the Repetitive Loss Areas (RLAs) have been recently visited in person by the author of this report and analyzed for flood susceptibility and potential mitigation measures. Specific data collected for each of the RLAs is included in the RLA summaries that follow.

Step 4: Consider Mitigation Alternatives

A detailed analysis for each Repetitive Loss Area (RLA) is provided below. FEMA identifies six mitigation categories, each of which is considered for each RLA:

1. **Preventive activities** keep things from getting worse. Planning, land acquisition or regulations are put in place to reduce development in flood-prone areas.
2. **Property Protection** activities are most often undertaken by property owners on a particular building or can sometimes be led by a community on behalf of a property owner(s).
3. **Natural Resource Protection** activities may not directly affect a building that is subject to repetitive flooding, but these measures can help areas by protecting lands from development and keeping property in a natural state.
4. **Structural projects** keep floodwaters away from buildings or an area through a variety of large scale mitigation projects. These projects are usually undertaken by the local, state, or federal governments or a combination of government entities. These types of projects are often not undertaken by property owners.
5. **Public Information** activities will not fix the flood problem, but will help to educate property owners about the causes of repetitive flooding and ways they can protect

their buildings from damage. These activities are usually undertaken by the local government, but can also be implemented by a regional planning agency, water management district, or other entity.

6. **Emergency Services** measures are more for response and recovery than for mitigation; however, having a fully operational flood threat recognition system and warning system can protect residents and prepare them to make modifications to their building or to encourage action to move their belongings to a higher level or safer location.

Step 5: Document the Findings

This entire RLAA document serves as the repository of the authors findings and recommendations for consideration.

Repetitive Loss Areas Analyses (RLAA)

The following individual analyses for each RLA provide details of the cause(s) of flooding and the various options available for mitigating that flood risk, based on the field and study data collected.

Mapping of the Special Flood Hazard Areas (SFHAs) within the City Limits, for reference can be found here:

<https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd&extent=-92.00609642578078,41.84868386403499,-91.34142357421916,42.10391684146216>

The Repetitive Loss Areas are numbered 1-15, with sub-areas shown on the RLA maps, in [Appendix 4](#).

Additional background information specifically for local officials on the NFIP and CRS can be found here: <https://www.fema.gov/information-state-local-officials>. Please contact the author with any questions at s.pumphrey@cedar-rapids.org or 319 286 5363.

**The "Apparent Resilience of Structure(s) to Flooding" rating is based on the mode of flooding and the appearance of each building from a windshield survey performed during the field visit.*

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

Repetitive Loss Area #1 – NewBo/Sinclair SE

# of Repetitive Loss Properties in this RLA	5 total (incl. 1 mitigated)
Total Parcels within RLA	517
Site Visit Notes	<ul style="list-style-type: none"> A site visit was done on 01/25/19. This area covers approximately 1/5 of the downtown core of the City, along with a quickly developing commercial and residential area. High Development Potential – the area has experienced explosive growth over the last few years, and is expected to continue to develop with high-value real estate. Flooding comes from the Cedar River – overbank and underground stormsewer. If a property has a basement, it is likely that a floor drain or other basement plumbing fixtures will experience the first symptoms, followed by basement floor and wall seepage followed by overland inundation through window wells etc. The Cedar River rises over time and flows into the area overland at approximately elevation 723. The lowest areas begin to flood at approximately 713 through the storm sewer system. (Note: This report is being written after the construction of the Sinclair Levee, as part of the City's Flood Control System (FCS).) This area is subject to the City's interim flood control plan in place and in use prior to the full FCS being in place. NewBo is one of the lowest elevated areas of the City, and is the first to experience riverine floodwaters as the river rises. In addition to the City's efforts in a high-river event, it is prudent for each property owner to make their own individual preparations for flooding, such as sandbagging, plugging plumbing fixtures and raising valuables from lower levels. It is likely that the area would be evacuated and/or inaccessible in a significant high water event. Property owners should make preparations long before the projected peak.
General Topography	This area is a fairly flat and low-lying area with topography ranging from approximately 713 to 725
BFE Range	719.6 to 722.75
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Continue enforcing the City's floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped.</p> <p>Property Protection – Continue to refine and implement, when necessary, the City's interim flood protection plan as necessary, installing barriers to overland flooding (e.g. HESCOs) and sewer plugs. Install one-way sewer outfall gates where appropriate. Continual training of City staff and/or contractors for implementation drills.</p> <p>Structural Projects – Continue to expand and maintain City's permanent Flood Control System (FCS) of levees, floodwalls, pump stations, detention basins and temporary flood barriers. (Details here - http://www.cedar-rapids.org/local_government/departments_g_-_v/public_works/cedar_river_flood_control_system.php)</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Gas station and auto body shop	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
2.	Furniture showroom, warehouse and small commercial buildings	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
3.	1 and 2 story commercial buildings	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
4.	1 story commercial buildings and parking areas	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
5.	1 story commercial buildings and parking areas	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
6.	1 story commercial buildings and parking areas	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
7.	Parking Lot only - developable property	N/A	N/A	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Ensure future development occurs in compliance with floodplain management ordinance and best practices
8.	1 and 2 story single family homes	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
9.	2 story commercial structure and 3 story multi-family structures	Medium	unknown	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
10.	Historic Church with basement and multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
11.	4 story multi-family structure and multiple single family homes	Medium	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
12.	1 story commercial building and parking areas	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
13.	2 large multi-family condominium buildings	High	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
14.	Medium sized commercial buildings	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
15.	Open space	N/A	N/A	N/A	N/A	N/A		
16.	Newly built townhomes with flood vents	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
17.	Small commercial buildings	Medium	unknown	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
18.	1 medium sized multi-use building, 1 large commercial building and multiple small store front type commercial buildings	High	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
19.	Newly building multi-use building	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
20.	Vacant land	N/A	N/A	N/A	N/A	N/A		
21.	Multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
22.	Building currently under construction - county owned/operated service building	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
23.	1 story health clinic and multiple single family homes	Medium	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
24.	Multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
25.	1 large multiuse building and multiple single family homes	High	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
26.	Multistorey multiuse building	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
27.	NewBo City Market - 1 story converted warehouse space	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
28.	Multiple 1 and 2 story commercial buildings including a theater	Medium	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
29.	Omitted from RLA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30.	FCS pump station	High	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
31.	Czech School Building (used for light commercial)	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
32.	African American Museum and open space	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
33.	Former bank turned restaurant, multiple single family homes	Medium	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
34.	1 historic and 1 new medium sized multi-use buildings	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
35.	1 new medium sized commercial office building	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
36.	Misc. warehouse storage buildings	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
37.	Sinclair site - mostly vacant, hosting new FCS levee and detention area	N/A	N/A	N/A	N/A	N/A		

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
38.	Small commercial storefront buildings and some misc. storage buildings	Medium	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
39.	Storage building	Medium	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
40.	Vacant land	N/A	N/A	N/A	N/A	N/A		
41.	Alliant substation (elevated post 2008 flood)	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)		
42.	Cargill industrial plan	Medium	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Continue to update and implement City's Flood Response plan for all high-river events (e.g. HESCO barriers and sewer plugs etc.)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

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Repetitive Loss Area #2 – Northwest Neighborhood NW

# of Repetitive Loss Properties in this RLA	4 total (incl. 2 mitigated)
Total Parcels within RLA	470
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19 • This area covers a large portion of the City's "Time Check" or "Northwest" neighborhood. Much of this area was heavily impacted in the 2008 flood (elevation ~735), and was the focus of many buy-outs. However, there is still a healthy housing stock in this RLA. • Development Potential is moderate at the current time; It is expected to be high after City's FCS is constructed and functioning. • Flooding comes from the Cedar River – overbank and underground stormsewer. • The Cedar River rises over time and flows into the area overland at approximately elevation 724. The lowest areas begin to flood at approximately 722 through the storm sewer system • A significant portion of this RLA is current vacant after the 2008 flood but the majority of the structures that remain have been rebuilt at the same elevation because they aren't in the SFHA, or they were not substantially damaged. The City's interim flood response plan covers this area. Property owners are also expecting the FCS to be built in this area based on the published masterplan. Once that occurs structures will be behind the line of protection. However, residual flood risk will continue to be present. Strategies to protect individual properties should be communicated to and considered by each property owner.
General Topography	This area is a fairly flat and low-lying area with topography ranging from approximately 722 to 727
BFE Range	726 to 728
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Continue enforcing the City's floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped.</p> <p>Property Protection – Continue to refine and implement, when necessary, the City's interim flood protection plan as necessary, installing barriers to overland flooding (e.g. HESCOs) and sewer plugs. Install one-way sewer outfall gates where appropriate. Continual training of City staff and/or contractors for implementation drills.</p> <p>Structural Projects – Continue to expand and maintain City's permanent Flood Control System (FCS) of levees, floodwalls, pump stations, detention basins and temporary flood barriers. (Details here - http://www.cedar-rapids.org/local_government/departments_g_-_v/public_works/cedar_river_flood_control_system.php)</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Single family homes and a 1 story retail store, some vacant lots	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
2.	Mostly vacant with some single family structures	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
3.	Mostly vacant with some single family structures	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
4.	Mostly vacant with some single family structures	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
5.	Mostly vacant with some single family structures	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
6.	Mostly vacant with some single family structures	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
7.	Mostly vacant with some single family structures. 1 building with storefront retail (vacant)	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
8.	Mostly vacant with some single family structures	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
9.	Mostly vacant with some single family structures. 1 single story neighborhood restaurant	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach
10.	Mostly vacant with some single family structures	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Building permit moratorium until FCS is completed. No new structures on wet side of FCS	Provide property specific recommendations for floodproofing, as part of annual RLA outreach

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Repetitive Loss Area #3 – Vinton Ditch on E Ave NW

# of Repetitive Loss Properties in this RLA	2 total (incl. 1 mitigated)
Total Parcels within RLA	103
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • This area is all residential housing along a urban drainage ditch, with a sizeable upstream drainage area. • Development Potential is low – This area is already built out with modest homes of 1960s vintage. There are no current or known proposals to redevelop this area in the foreseeable future. • Flooding comes from the Vinton Ditch (a tributary to the Cedar River) – overbank flooding • The Vinton Ditch conveys a large drainage area (approximately 2.37 sq. miles at the downstream end of the RLA). The upstream area is mostly developed urban, installed prior to the City’s detention requirements for development. Much of the RLA is within the SFHA. Interviews with local residents corroborate a phenomenon of overbank flooding from the Vinton Ditch that occurs with little warning and then dissipates quickly, during a moderate to large rain event • This neighborhood is located at the confluence of two drainage areas, yet also downstream of a large regional detention basin. Most homes have a modest footprint therefore elevation could be considered. Other strategies could include raising or closing window wells and basement waterproofing (for seepage). Raising valuable items out of basements should also be considered by individual property owners. The City monitors the Vinton Ditch closely for debris build-up over time.
General Topography	This area is generally fairly flat with topography ranging from approximately 755 to 772 (excluding the drainage ditch)
BFE Range	756 to 766
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Continue enforcing the City’s floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped.</p> <p>Structural Projects – As a part of the City’s Stormwater Masterplan efforts of this drainage basin, a number of CIP projects are proposed to mitigation flooding in this area. One project specifically proposes to expand the existing regional detention basin just upstream of this RLA.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Retirement community - multi-family building, with drainage culvert beneath	High	slab on grade	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch and tributary.
2.	Multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch and tributary.
3.	Drainage ditch - no structures	N/A	N/A	N/A	N/A	Maintenance activities to reduce debris in Vinton Ditch and tributary.		
4.	Multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch and tributary.

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
5.	Multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.
6.	Multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.
7.	Multiple single family homes	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.
8.	Multiple single family homes adjacent to Vinton Ditch	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.
9.	Multiple single family homes adjacent to Vinton Ditch	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.
10.	Multiple single family homes adjacent to Vinton Ditch	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.
11.	Multiple single family homes adjacent to Vinton Ditch	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.
12.	Multiple single family homes adjacent to Vinton Ditch	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to pursue mitigation of flooding through CIP projects identified in Stormwater Masterplan	Maintenance activities to reduce debris in Vinton Ditch.

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Repetitive Loss Area #4 – Hawkeye Downs Rd SW

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	22
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • This area is mostly low-intensity industrial along Prairie Creek, close to the confluence with the Cedar River. • Development potential is low – This area is already built out with viable business properties. There are no current or known proposals to redevelop this area in the foreseeable future. • Flooding comes from the Prairie Creek (a tributary to the Cedar River) – overbank flooding • Prairie Creek conveys a large drainage area (approximately 212 sq. miles at the downstream end of the RLA). Most of the drainage area is rural agricultural land. There is minimal freeboard between the normal flow elevation and the grade elevation of the neighboring properties. • Consider a meeting with the property/business owners in this area to provide technical guidance on ways to mitigate damage in a high water event. Is there equipment that can be raised, water-resistant building materials that can be used for interior walls beneath the BFE, electrical outlets, furnaces etc. that can be raised above the BFE to minimize damage.
General Topography	This area is generally fairly flat with topography ranging from approximately 714 to 727
BFE Range	719.5 to 723.6
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input checked="" type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	Preventative – Continue enforcing the City’s floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped. Property Protection – Investigate and implement a low level ring levee around the insurable structure(s) to expel floodwaters from buildings during a base flood event. Natural Resource Protection – Pursue a full or partial buyout of this property and convert into natural floodplain area for Prairie Creek Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple 1 story industrial buildings and outdoor storage of materials	Low	slab on grade	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	
2.	Multiple 1 story industrial buildings and outdoor storage of materials	Low	slab on grade	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	

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Repetitive Loss Area #5 – Center Point Rd NE

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	8
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • This area includes a collection of commercial buildings along McLoud Run, an urban stream. • Development Potential is low – This area is already built out with viable business properties. There are no current or known proposals to redevelop this area in the foreseeable future. • Flooding comes from McLoud Run (a tributary to the Cedar River) – storm sewer/sump pump backflow. • McLoud Run conveys a fully developed urban drainage area (approximately 4.1 sq. miles at the downstream end of the RLA). Some of the properties have walkout basements, with a low area on the dry side of the berm of elevation 761. The front of the properties is significantly higher. During intense rainfall, the water surface elevation rises quickly in McLoud Run, and is believed to back up through the storm sewer or exterior sump pump pipe (assumed to route under the berm), causing overland flooding. (Note any storm sewer connection is located on private property and hasn't been verified) • Consider meeting with property owners/tenants to advise on ways to minimize damage in a flood. Individual property plans for high-water events to include sandbagging, small floodwall installations etc.
General Topography	This area generally slopes from Center Point Road toward McLoud Run topography ranging from approximately 761 to 769. There is a berm between McLoud Run and the rear of the properties up to elevation 764.
BFE Range	A-Zone – Elevations undetermined.
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Continue enforcing the City's floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped.</p> <p>Property Protection – Work with property owners to ensure that there is backwater flow prevention in any drainage system that expels water from the "low-spot" on the dry side of the berm.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	1 story retail building	Medium	slab on grade	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	
2.	2 x 1 story office buildings	High	slab on grade	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
3.	1 single family home	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	
4.	1 story office building	High	unknown	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	
5.	1 single family home	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	
6.	2 single family home	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	
7.	Multiple small apartment buildings	Medium	slab on grade	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	

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Repetitive Loss Area #6 – Greenfield St NE

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	14
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • One block of a residential street with modestly sized homes, adjacent to commercial development to the west. • Development Potential is low – This area is already built out with modest homes of about 1980s to 2000s vintage. There are no current or known proposals to redevelop this area in the foreseeable future. • Two privately owned commercial detention basins are located at the NW corner of the RLA and appear to affect the flooding potential within this RLA. These basins are associated with the commercial development to the west of the RLA. • City Engineer to enact current requirement for private basins to be certified for capacity every 5 years, and compare with the drainage report. Modifications required if necessary. Review of overflow location and capacity to be considered. Review of drainage path in a basin overflow event to be mapped with LIDAR contours to determine which homes are susceptible to damage.
General Topography	The street and RLA generally slopes from a high point at the west end to a low point at the east end.
BFE Range	SFHA not present
Viable Mitigation Options	<input type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Property Protection – Reshaping of the earthen grade within the channel that directs overflow from the detention basin, to divert stormwater toward the street ROW and away from basement windows.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple single family homes	High	basement with block/concrete wall	Flow from adjacent upstream property	N/A	Review of upstream basin emergency overflow location and capacity	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
2.	Multiple single family homes	High	basement with block/concrete wall	Flow from adjacent upstream property	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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Repetitive Loss Area #7 – Cottage Grove SE

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	31
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • A portion of a residential subdivision built in the 1970's along with a large acreage along the Indian Creek. • Low Development Potential – This area is already built out with homes of about 1970s vintage. There are no current or known proposals to redevelop this area in the foreseeable future. • Two flooding scenarios have been experienced in this neighborhood: <ul style="list-style-type: none"> • Indian Creek – overland flow from the creek, which is known to be "flashy", meaning it rises and falls in elevation in a short period of time. • Runoff from the north. Runoff flows from the NE area down Deepwood Court toward the RLA and collects in the depression behind homes along Sunland Court and Cottage Grove Parkway. The resulting ponding then enters basements through low openings. • Recent buy-out of a home completed, along with a lowered overflow from the "bowl" in the backyards. This will help a lot, but this overflow location should be checked periodically to ensure that it is still working as designed. Also new levee should help significantly for flooding from the Indian Creek, but should also be monitored periodically to ensure that rodent holes don't appear
General Topography	The homes in the RLA sit in a low-lying flat area adjacent to Indian Creek. There is a depression in the area behind homes along Sunland Court and Cottage Grove Parkway. Just outside of the RLA, the topography climbs quickly toward the north and east.
BFE Range	737 to 740
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input checked="" type="checkbox"/> Natural Resource Protection <input type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Continue enforcing the City's floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped.</p> <p>Property Protection – A number of City projects are in the works and should continue to be pursued:</p> <ul style="list-style-type: none"> - Complete "tie-in" of the newly completed flood risk reduction berm along Cottage Grove Parkway, to protect property to the 1% annual chance level to an elevation of 742. - Increase intake capacity at the south end of Deepwood Court, to intercept flow from the north, and redirect away from the "backyard bowl". <p>Natural Resource Protection – Maintain greenspace on HMGP buy-out lot (4264 Cottage Grove Parkway SE). Ongoing</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple single family homes	High	basement with block/concrete wall	Riverine Flooding from Indian Creek	Flow from adjacent upstream property	City to study area to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
2.	Multiple single family homes	High	basement with block/concrete wall	Riverine Flooding from Indian Creek	Flow from adjacent upstream property	City to study area to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
3.	Multiple single family homes	High	basement with block/concrete wall	Riverine Flooding from Indian Creek	Flow from adjacent upstream property	City to study area to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	

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Repetitive Loss Area #8 – Rockford Road SE

# of Repetitive Loss Properties in this RLA	2 total
Total Parcels within RLA	298
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/25/19. • This RLA is made up of a mix of residential, an elementary school, commercial, industrial and a locally owned railroad. The railroad dissects the RLA. • Development Potential is Mixed: <ul style="list-style-type: none"> ◦ The Railroad, school and industrial areas aren't expected to redevelop in the near future. ◦ Some of the commercial and/or residential properties could be redeveloped as individual properties. • Natural constrictions and flat topography within the Rockford Road urban drainage basin • There are two identified phenomena that influence flood risk in this RLA: <ul style="list-style-type: none"> ◦ A natural "bowl" that is present along Rockford Rd SW, upstream of the culverts underneath the railroad. ◦ Lack of topographic relief within the residential area near Taylor School, downstream of the railroad. • There is a low area along Rockford Road upstream of the culverts underneath the RR. Reports have been received of buildings being affected by a rise of floodwaters as the area drains through these underground culverts.
General Topography	The area is generally fairly flat, other than the railroad grade which is raised a number of feet above the grade surrounding it. There is a significant drainage area that routes through this RLA of approximately
BFE Range	SFHA not present
Viable Mitigation Options	<input type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Property Protection – At-risk properties should investigate localized flood mitigation measures, such as barriers at low openings, sewer backwater prevention devices, basement waterproofing and regrading of lots around insurable structures.</p> <p>Structural Projects - Resulting from the City's stormwater masterplan efforts, there are a number of recommendations to modify the City's stormwater conveyance infrastructure, such as detention basins, green infiltration infrastructure and pipe/culvert size modifications upstream in the drainage basin. The recommendations from that exercise should be fully vetted, prioritized and implemented to reduce the peak flows experienced by this RLA.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple structure types: 2 story residential, multiple 1 story commercial buildings of various sizes	Medium	mixed	Localized ponding	Riverine Flooding from local drainageway	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
2.	Multiple small industrial/commercial buildings and misc. material storage	Medium	mixed	Riverine Flooding from local drainageway	N/A	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
3.	Cargill industrial plant and RR tracks	Medium	mixed	Riverine Flooding from local drainage way	N/A	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
4.	Oitsen Oil Co. building and multiple single family homes	Medium	mixed	Localized ponding	N/A	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
5.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	N/A	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
6.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	N/A	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
7.	Taylor Elementary School	High	slab on grade	Localized ponding	N/A	City to study upstream drainage basin to identify and ultimately fund CIP projects, as part of the Stormwater Masterplan efforts	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
8.	Railroad and drainage ditch	N/A	N/A	N/A	N/A	N/A		

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Repetitive Loss Area #9 – 27th St SW

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	13
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • A residential area with some acreages and a portion of a recent subdivision. • The recently developed areas are expected to remain as they are for the near future. The acreages could be subdivided and redeveloped at any point in the future, but there are no known plans for this to occur in the near future, at the time of writing this. • Flooding source: The drainage ditch routes very close to a number of properties within the RLA. It also crosses 27th St SW through a culvert beneath the street. • It is believed that in heavy rains, the ditch is overwhelmed, whereby the flow exceeds the limits of the banks and impacts adjacent properties. • Some homes have low openings close to the drainage way. These low openings could be protected with regrading and large window wells areas, possibly with exterior sump pumps and backwater flow valves
General Topography	A drainage ditch runs through the area from the NW corner to the SE corner.
BFE Range	SFHA not present
Viable Mitigation Options	<input type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	Property Protection – Encourage the impacted homeowner(s) to consider the installation of a small berm within private property parcels to keep stormwater within the drainage ditch and not allow it to expand toward low basements openings. Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Single family home	Low	walk out basement	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
2.	Single family home	Medium	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
3.	Multiple single family homes	High	basement with block/concrete wall	Riverine Flooding from local drainageway	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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Repetitive Loss Area #10 – 11th St NW

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	19
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • This RLA is a small pocket of residential properties. • Low development potential – This area is already built out with viable residential properties. There are no current or known proposals to redevelop this area in the foreseeable future. • Flooding is due to localized ponding, due to lack of topographic relief. • There is only one repetitive loss property in this area, yet the homes in the RLA are at similar elevations. Consideration to be given to providing homeowners with individualized tools for each home such as advice on regrading areas around each home, raising window wells etc.
General Topography	This relatively small RLA is fairly flat. However, the properties directly to the west of the RLA boundary slope up as you move westward.
BFE Range	SFHA not present, however K Avenue and J Ave NW are both within the 0.2% (shaded X) zone.
Flooding Characteristics (without interventions)	It is believed that in heavy rains, the lack of localized topographic relief between the homes and the street allows water to pond in pockets, causing basement flooding, where there are low-lying window wells and/or foundation cracks.
Viable Mitigation Options	<input type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Property Protection – Provide technical assistance to property owners facilitating a review of specific vulnerabilities. Recommend ways for each property owners to mitigate against the localized flooding currently experienced.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple single family homes	High	basement with block/concrete wall	Localized ponding	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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Repetitive Loss Area #11 – 30th St Dr SE

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	12
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • Residential homes that sit close to Indian Creek in an urban environment. There is also a small neighborhood public park along the creek. • Low development potential – This area is already built out with viable residential properties. There are no current or known proposals to redevelop this area in the foreseeable future. • Flooding from Indian Creek – overland flooding • Flooding in this area is simply from a swelling of Indian Creek during heavy rains upstream. Indian Creek is known to be "flashy", meaning it rises and falls in elevation in a short period of time. • The Indian Creek is known to rise and fall within a short period of time during a large upstream rain event, so interventions installed before an event may not be practical here. Permanent and/or passive measures might be more appropriate, for individual property owners.
General Topography	Other than the area within the creek banks, the RLA (on both sides of the creek) gently slopes from elevation ~760 toward the creek.
BFE Range	758 to 760
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input type="checkbox"/> Property Protection <input checked="" type="checkbox"/> Natural Resource Protection <input type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Pursue buy-out of properties that repetitively flood</p> <p>Natural Resource Protection – Deed restrict the properties that are purchased to ensure that people are removed from harm's way in perpetuity.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple single family homes	Low	basement with block/concrete wall	Riverine Flooding from Indian Creek	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
2.	Multiple single family homes	Low	basement with block/concrete wall	Riverine Flooding from Indian Creek	N/A	Pursue buy-out of identified RL property, assuming owners consent	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	

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Repetitive Loss Area #12 – 2nd St SW

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	45
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/25/19. • Residential homes in a core neighborhood. • Low development potential – This area is already built out with viable residential properties. There are no current or known proposals to redevelop this area in the foreseeable future. • There are two possible sources of flooding within this RLA: <ul style="list-style-type: none"> ◦ Lack of topographic relief. This RLA is very flat ◦ A large culvert with a large drainage area routes through this RLA along 14th Ave SW. • Many basements of the homes within this RLA are cinderblock, which is known to allow seepage. It is believed that the large culvert along 14th Ave SW can surcharge back into the street causing localized flooding during heavy rains. • Protective measures could include advising homeowners to seal their basements walls and floors, raising window wells and modifications to grading and drainage around individual homes.
General Topography	This RLA is very flat with little topographic relief out of the area.
BFE Range	SFHA not present
Viable Mitigation Options	<input type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Property Protection – At-risk properties should investigate localized flood mitigation measures, such as barriers at low openings, sewer backwater prevention devices, basement waterproofing and regrading of lots around insurable structures.</p> <p>Structural Projects - Resulting from the City's stormwater masterplan efforts, there are a number of recommendations to modify the City's stormwater conveyance infrastructure, such as detention basins, green infiltration infrastructure and pipe/culvert size modifications upstream in the drainage basin. The recommendations from that exercise should be fully vetted, prioritized and implemented to reduce the peak flows experienced by this RLA.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Riverine Flooding from Cedar River	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
2.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Riverine Flooding from Cedar River	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
3.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Riverine Flooding from Cedar River	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
4.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Riverine Flooding from Cedar River	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
5.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Riverine Flooding from Cedar River	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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Repetitive Loss Area #13 – 12th Ave SW

# of Repetitive Loss Properties in this RLA	2 total
Total Parcels within RLA	44
Site Visit Notes	<ul style="list-style-type: none"> A site visit was done on 01/25/19. Residential homes in a core neighborhood. Low development potential – This area is already built out with viable residential properties. There are no current or known proposals to redevelop this area in the foreseeable future. There are two possible sources of flooding within this RLA: <ul style="list-style-type: none"> Lack of topographic relief. This RLA is very flat A large culvert with a large drainage area routes through this RLA along 12th Ave SW. Many basements of the homes within this RLA are cinderblock, which is known to allow seepage. It is believed that the large culvert along 12th Ave SW can surcharge back into the street causing localized flooding during heavy rains. Protective measures could include advising homeowners to seal their basements walls and floors, raising window wells and modifications to grading and drainage around individual homes.
General Topography	This RLA is very flat with little topographic relief out of the area.
BFE Range	SFHA not present
Viable Mitigation Options	<input type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Property Protection – At-risk properties should investigate localized flood mitigation measures, such as barriers at low openings, sewer backwater prevention devices, basement waterproofing and regrading of lots around insurable structures.</p> <p>Structural Projects - Resulting from the City's stormwater masterplan efforts, there are a number of recommendations to modify the City's stormwater conveyance infrastructure, such as detention basins, green infiltration infrastructure and pipe/culvert size modifications upstream in the drainage basin. The recommendations from that exercise should be fully vetted, prioritized and implemented to reduce the peak flows experienced by this RLA.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Flow from adjacent upstream property	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
2.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Flow from adjacent upstream property	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
3.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Flow from adjacent upstream property	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
4.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Flow from adjacent upstream property	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		
5.	Multiple single family homes	Medium	basement with block/concrete wall	Localized ponding	Flow from adjacent upstream property	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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Repetitive Loss Area #14 – River Road SE

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	11
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/24/19. • A low lying minimally developed area alongside the Cedar River • Low development potential – land is available for additional buildings. However, the area is in the SFHA (with some in the floodway). The area floods relatively regularly from high river levels • Cedar River is the source of flooding • This low lying area simply experiences overbank flooding when the river rises to modest elevations. • This area is also quite remote from other densely populated development and could be difficult for emergency services to access during a high-river event.
General Topography	This RLA is relatively flat, with contours between 705 to 720, but most of the area is only elevated to between 705 and 710
BFE Range	717 to 718
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input checked="" type="checkbox"/> Natural Resource Protection <input type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input checked="" type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Continue enforcing the City’s floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped.</p> <p>Property Protection – Pursue buy-outs of properties that repetitively flood</p> <p>Natural Resource Protection – Deed restrict the properties that are purchased to ensure that people are removed from harm’s way in perpetuity.</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p> <p>Emergency Services – Continue to provide citywide updates on social media and press releases for traditional media to inform citizens of road closures and potential evacuations of low-lying areas, such as this one.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	Large Lot Residential	Low	unknown	Riverine Flooding from Cedar River	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	Consider facilitation of a property buy-out using FEMA/HSEMD grant programs	
2.	Large Lot Residential/Commercial	Medium	unknown	Riverine Flooding from Cedar River	N/A	Provide property specific recommendations for floodproofing, as part of annual RLA outreach		

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Repetitive Loss Area #15 – Downtown along 1st St SE

# of Repetitive Loss Properties in this RLA	1
Total Parcels within RLA	105
Site Visit Notes	<ul style="list-style-type: none"> • A site visit was done on 01/25/19. • This area covers a significant length of river frontage of the downtown core of the City. • High development potential- the area has experienced explosive growth over the last few years, and is expected to continue to develop with high-value real estate. • Cedar River is the source of flooding • The Cedar River rises over time and flows into the RLA overland at approximately elevation 721. • Multiple buildings in this area have basements. There are also vaults beneath some sidewalks that could be an initial source of water entering a specific building during a high-river event. Recommend to property owners, that they construct or reconstruct their basement spaces with water-resistant materials to allow for a less labor-intensive clean up. This area is covered by the City's interim flood response plan.
General Topography	This area is a fairly flat and low-lying area with topography ranging from approximately 721 to 726
BFE Range	723 to 725
Viable Mitigation Options	<input checked="" type="checkbox"/> Preventative <input checked="" type="checkbox"/> Property Protection <input type="checkbox"/> Natural Resource Protection <input checked="" type="checkbox"/> Structural Projects <input checked="" type="checkbox"/> Public Information <input type="checkbox"/> Emergency Services
General Mitigation Recommendation(s)	<p>Preventative – Continue enforcing the City's floodplain management ordinance within the SFHA, as properties within this RLA are redeveloped.</p> <p>Property Protection – Continue to refine and implement, when necessary, the City's interim flood protection plan as necessary, installing barriers to overland flooding (e.g. HESCOs) and sewer plugs. Install one-way sewer outfall gates where appropriate. Continual training of City staff and/or contractors for implementation drills.</p> <p>Structural Projects – Continue to expand and maintain City's permanent Flood Control System (FCS) of levees, floodwalls, pump stations, detention basins and temporary flood barriers. (Details here - http://www.cedar-rapids.org/local-government/departments-a-v/public-works/cedar-river-flood-control-system.php)</p> <p>Public Information – Regular mailing to property owners within this RLA. Continued offer of technical assistance to property owners, providing advice on ways to mitigate flooding at each specific property.</p>

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
1.	City Hall - 3 stories with basement	Medium	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Use basement for non-critical functions, and have contingency plan for high-river events	
2.	Multi-story parking garage with adjacent commercial	High	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
3.	CRST tower and multi-story parking garage	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	

Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024

RLA Sub Area	Description and Characteristics of Sub-Area	Apparent Resilience of Structure(s) to Flooding*	Foundation Types (assumed from field visit)	Mode of Flooding 1	Mode of Flooding 2	Specific Mitigation Priority 1	Specific Mitigation Priority 2	Specific Mitigation Priority 3
4.	Alliant tower and other multi-story downtown structures	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
5.	Smuelekoff's Building	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
6.	Paramount Theater and other downtown buildings	High	basement with block/concrete wall	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
7.	Multiple commercial buildings	High	mixed	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
8.	Bus Terminal (GTC building)	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	
9.	Great America Building	High	slab on grade	Riverine Flooding from Cedar River	N/A	Pursue completion of City's Flood Control System (FCS)	Provide property specific recommendations for floodproofing, as part of annual RLA outreach	

Appendices

1. Outreach Letter



Monday, 31, 2019

«OWNERNAME»
«OWNERMAIL?»
«POSTADDRESS»
«POSTCITY» «POSTSTATE» «POSTZIP?»

RE: Property Address: «SITEADDRESS» CEDAR RAPIDS, IA

Dear Property Owner,

You have received this letter because your property is located in or near an area of the City which has experienced repetitive flooding in the past (aka "Repetitive Loss Area"). We are writing you to share some information regarding a current program that offers savings on flood insurance premiums. We hope this information and the following tips help you make informed decisions regarding your property.

Since 2010, the City has been participating in the National Flood Insurance Program's (NFIP) Community Rating System (CRS). The CRS recognizes local floodplain management activities that exceed the minimum requirements and grants flood insurance premium discounts. Currently, the City's discount is 20 percent for owners who carry flood insurance on properties within the Special Flood Hazard Area (SFHA). This area is commonly referred to as the "100-year floodplain."

What options might you consider?

1. Check with the Public Works Department (319-200-5002) for availability of information regarding past flooding in your area. If such is available, City Staff can tell you about the flood history of your property, and even visit your property to discuss with you specific ways to reduce flood risk.
2. Consider some flood protection measures:
 - Make you use box to show the circuits to the floodable areas of your building. Consider elevating utilities above flooding depths.
 - Check your building for water entry points. These can be basement windows, basement stairwells, doors and dryer vents. These may be protected with low walls or temporary shields.
 - Install a floor drain plug, sewer standpipe, or sewer backwater valve.
 - More information can be found in "Homeowner's Guide to Retrofitting: Six Ways to Protect Your House from Flooding" Visit <http://www.linn.gov/water/library/assets/documents/420> for your free copy.
3. Talk to the Public Works Department for information on financial assistance. The City currently offers a sanitary sewer backflow prevention rebate program which will pay up to \$800 toward the installation of backwater valves on existing homes.

ep1201610237102
entry: 11/01/18
page 3

4. Consider the purchase of a flood insurance policy.

- Homeowner's policies do not cover damage from floods; however, because the City participates in the NFIP, you can purchase a separate flood insurance policy. This insurance is backed by the Federal government and is available to all properties. The City's participation in the CRS program will allow you to receive a discount on your premium rates.
- Consider the coverage for contents of your property in addition to building coverage.
- Don't wait to buy flood insurance protection. Keep in mind, in most cases, there is a 30-day waiting period before flood insurance coverage takes effect.
- Contact your insurance agent for more information on rates and coverage options or go to www.floodsmart.gov.

5. Review the flood protection resources available on the City's website: <http://bit.ly/2AwUG70>

Finally, as a City, we're committed to doing everything we can to reduce flood risk. We are in the process of analyzing repetitive loss areas, such as yours. We would highly value your input on what you know and have experienced as a property owner and your thoughts on fixing the known issues. Please contact me with input on flooding in your area or just for further questions. After receiving input between now and April 30, 2018, we will prepare a draft analysis, which you are entitled to comment on until July 31, 2018. This will be available on the City's website on this page - <http://bit.ly/2AwUG70>.

You can reach me at sumpore@cedar-rapids.org or at 319-285-5363, directly.

Sincerely,

THE CITY OF CEDAR RAPIDS PUBLIC WORKS DEPARTMENT

Sandy Pumphrey, PE, CFM
Project Engineer II – Flood Mitigation
SHP/lls

cc: Ken DeKoyzy, Development Services Manager, City of Cedar Rapids;
Building Official, City of Cedar Rapids.

2. Pertinent Links

- City of Cedar Rapids Flood GIS Viewer - <http://crgis.cedar-rapids.org/F7V/index.html>
- City of Cedar Rapids Flood Control System – http://www.cedar-rapids.org/local_government/departments_government/public_works/cedar_river_flood_control_system.php
- City of Cedar Rapids Interim Flood Response Plan - http://www.cedar-rapids.org/Public%20Works/Flood%20Response%20Manual/2015%20Flood%20Response%20Manual_PUBLIC_Page%208%20updated%20Aug%202016-Reduced.pdf and http://www.cedar-rapids.org/discover_cedar_rapids/flood_of_2008/interim_flood_protection_plan.php
- City of Cedar Rapids Stormwater Masterplan - http://www.cedar-rapids.org/local_government/departments_government/public_works/stormwater_master_plan.php
- USACE Indian Creek Study – <https://bit.ly/2DsSc4O>
- The Indian Creek Watershed Management Authority Masterplan - <http://www.indiancreekwma.org/the-plan.html>

3. Glossary

BFE – Base Flood Elevation

CIP – Capital Improvement Program

CRS – FEMA/NFIP’s Community Rating System

FCS – The City of Cedar Rapids Flood Control System

FEMA – Federal Emergency Management Agency

FIRM – Flood Insurance Rate Map

FIS –Flood Insurance Study, published by FEMA.

NFIP – National Flood Insurance Program

RLA – Repetitive Loss Area

RLAA - Repetitive Loss Area Analysis

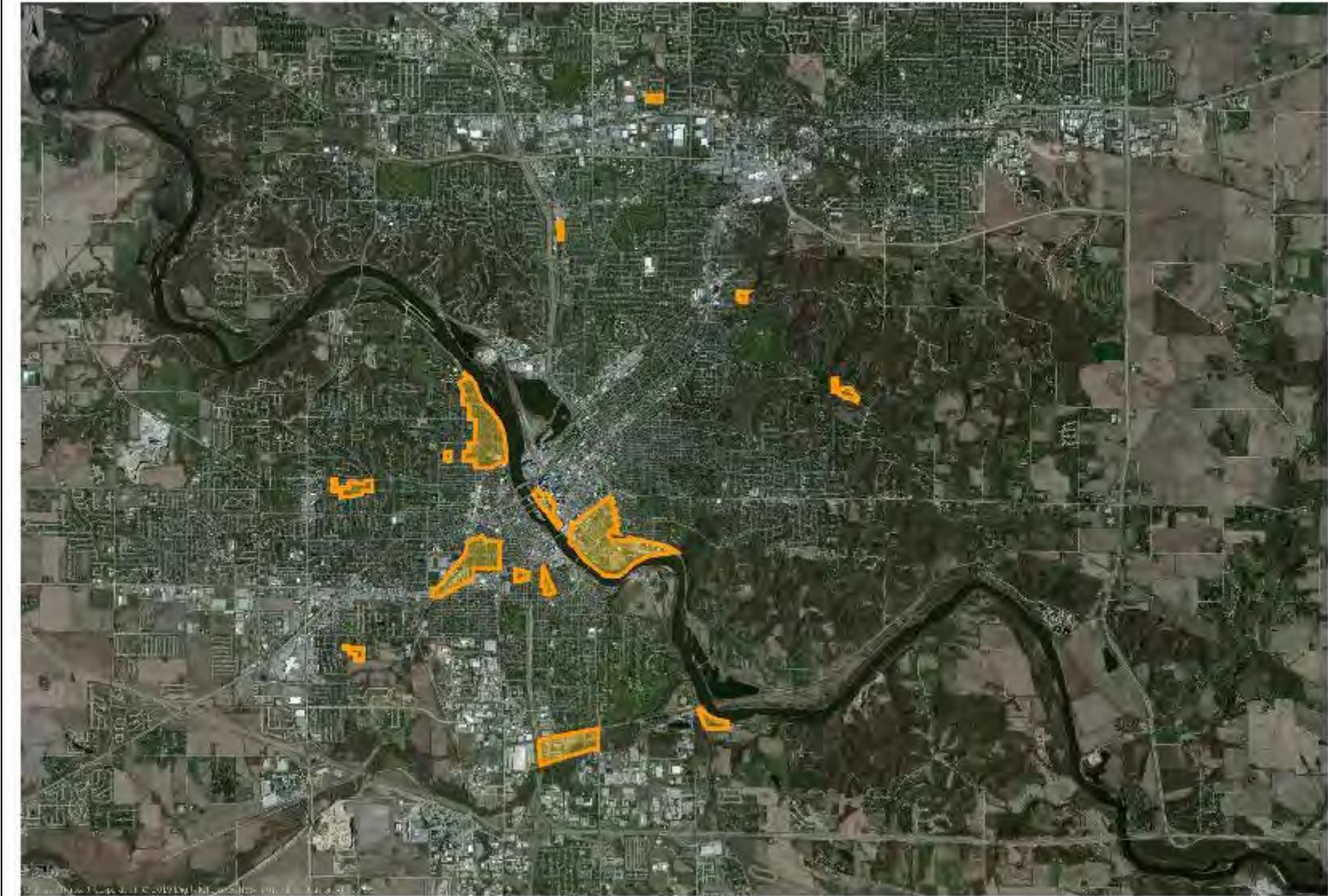
SFHA – Special Flood Hazard Area as defined by FEMA

The City – The City of Cedar Rapids, IA

4. RLA Maps

- Repetitive Loss Area #1 – NewBo/Sinclair SE
- Repetitive Loss Area #2 – Northwest Neighborhood NW
- Repetitive Loss Area #3 – Vinton Ditch on E Ave NW
- Repetitive Loss Area #4 – Hawkeye Downs Rd SW
- Repetitive Loss Area #5 – Center Point Rd NE
- Repetitive Loss Area #6 – Greenfield St NE
- Repetitive Loss Area #7 – Cottage Grove SE
- Repetitive Loss Area #8 – Rockford Road SE
- Repetitive Loss Area #9 – 27th St SE
- Repetitive Loss Area #10 – 11th St NW
- Repetitive Loss Area #11 – 30th St Dr SE
- Repetitive Loss Area #12 – 2nd St SW
- Repetitive Loss Area #13 – 12th Ave SW
- Repetitive Loss Area #14 – River Road SE
- Repetitive Loss Area #15 – Downtown along 1st St SE

All RLAs



512 - Repetitive Loss Area 01







512 - Repetitive Loss Area 05









512 - Repetitive Loss Area 09



512 - Repetitive Loss Area 10





512 - Repetitive Loss Area 12

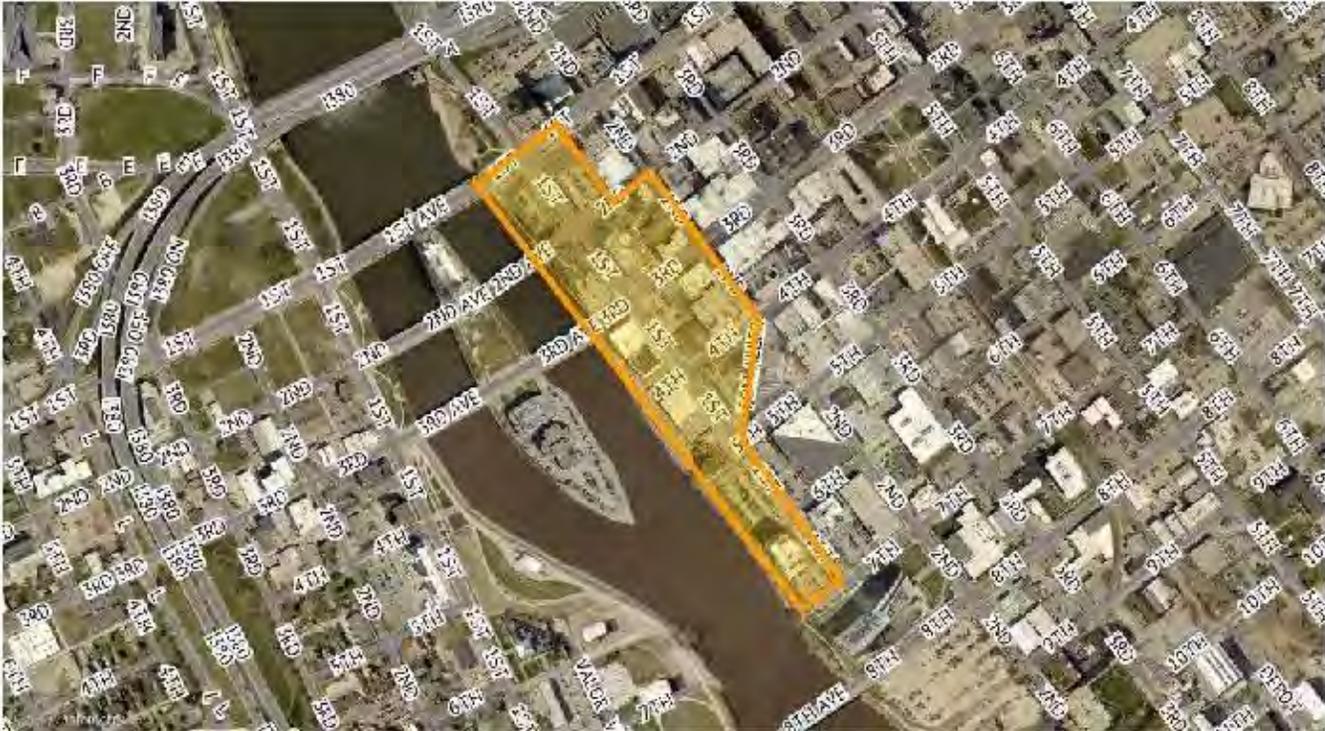




512 - Repetitive Loss Area 14



512 - Repetitive Loss Area #15



03/09/2017 - 05/15/2017

Appendix F—Indian Creek Watershed Management Plan: Flood Risk Reduction Goal and Objectives

Objective 5. Encourage policies & practices to protect drinking water sources

- a. develop a subcommittee to determine how stormwater should be managed in source water protection areas

Flood Risk Management Goal

Protect human life, property, and surface water systems that could be damaged by flood events in the Indian Creek Watershed



Objective 1. Encourage & implement practices to reduce peak flows

- a. promote the use of the Iowa Stormwater Management Manual criteria to reduce peak flows using overbank and stream channel protection guidelines
- b. conduct an inventory of rural road culverts and bridges to identify opportunities for converting road ditches to bioswales and on-road structures to hold back water
- c. inventory row crop encroachment in road right-of-ways and enforce existing laws throughout the watershed
- d. use GIS aerial photography & anecdotal evidence to identify locations where repetitive crop losses due to flooding have occurred and promote the Conservation Reserve Program (CRP), the Wetland Reserve Program (WRP) and other relevant practices

Objective 2. Encourage cities to go beyond floodplain management requirements

- a. identify Community Rating System criteria that all communities should meet and determine improvements
- b. identify areas of repetitive loss due to flooding

Objective 3. Coordinate flood risk management strategies among member communities

- a. develop a uniform method among the ICWMA members to track public sector costs due to flooding
- b. complete & install flood warning system as a special page on the Iowa Flood Information System (IFIS) website
- c. update flood inundation maps when related plan updates occur

Objective 4. Update policies & strategies to minimize damage in the 500-year floodplain

- a. Conduct a comprehensive inventory and risk based evaluation of the structures in the 500-year floodplain
- b. develop or update policies to discourage new development in the 100 year & 500 year floodplain
- c. utilize the HEC-HMS model to identify priority areas to reduce upstream peak flow to protect property in the 500-year floodplain

Recreation & Habitat Goal

Expand and enhance recreational opportunities and increase the quantity and quality of habitat in the Indian Creek watershed



Objective 1. Increase the quantity and quality of habitat in the Indian Creek Watershed

- a. develop criteria for identifying stream segments that are a higher priority for habitat restoration
- b. conduct bio-assessment on Dry Creek and Squaw Creek to determine baseline conditions in high priority segments
- c. identify locations suitable for restoring riffle habitat in priority segments, to achieve a riffle distance ratio of 5-7
- d. In East Indian Creek, address issues with stream channel instability and active downcutting
- e. reduce sediment loads so that sediment-related habitat metrics fall within critical levels

Appendix G—Plan Amendments

Linn County

Linn County amended their mitigation strategy and corresponding action plan to include four additional projects. Refer to Table 26 and Table 27. Mike Tertinger worked with the consultant to develop the new strategies and corresponding action plans. The proposed amendment was shared with the planning committee for comment on June 12, 2019. No comments were received. Refer to Figure 1. The Linn County Board of Supervisors approved the amendment by resolution on July 3, 2019. Refer to Figure 2. The amended mitigation strategy was submitted to the Iowa Homeland Security and Emergency Management Department, where it was forwarded to FEMA and approved July 15, 2019. Refer to Figure 3.

Mitigation Strategy Amendment

Table 26: Linn County Mitigation Strategy Amendment

Proposed Mitigation Action	Hazard(s) Addressed	Goal(s) Addressed	Inclusion in Existing Plan	Update/Notes
Complete a watershed hydrology study for any of the Watershed Management Authorities Linn County participates in to be used to prioritize flood mitigation projects	Flash Flood, River Flood	1, 2, 3, 5		
Install green infrastructure and floodplain restoration projects—e.g. oxbows, bank stabilization, stormwater wetlands, permeable pavement, etc.—to reduce flood hazard risk	Flash Flood, River Flood	1, 2, 3, 5		
Install river/flood gauges or other alert devices to provide advanced warnings and alerts	Flash Flood, River Flood	1, 2, 3, 4, 5		
Create educational materials or signage for flood hazard awareness	Flash Flood, River Flood	1, 4, 5		

Action Plan Amendment

Table 27: Linn County Action Plan Amendment

Priority Level	Proposed Mitigation Action	Lead	Potential Partner(s)	Benefit	Cost	Potential Funding Source(s)
1	Complete a watershed hydrology study for any of the Watershed Management Authorities Linn County participates in to be used to prioritize flood mitigation projects	Linn County Planning and Development	Watershed Management Authorities (WMAs) that Linn County participates in, IHSEMD	High	Medium–High	County, WMA partners, HMGP
1	Install green infrastructure and floodplain restoration projects—e.g. oxbows, bank stabilization, stormwater wetlands, permeable pavement, etc.—to reduce flood hazard risk	Linn County Conservation, Linn County Planning and Development, Linn County Secondary Roads	WMAs, IHSEMD	High	Medium–High	County, WMA partners, HMGP, PDM
1	Install river/flood gauges or other alert devices to provide advanced warnings and alerts	Linn County Planning and Development/Linn County Conservation	Iowa Flood Center, USGS, IHSEMD, WMAs	High	Medium–High	County, HMGP
1	Create educational materials or signage for flood hazard awareness	Linn County Planning and Development	WMAs	High	Low–Medium	County, WMAs, HMGP

Figure 1: Invitation to Planning Committee to Comment on Proposed Amendment

https://outlook.office.com/mail/AAMkAGJTYzgyYzg1LWJjYjEtNGM4NS1hZTEzLTA3NjEx...

Proposed Amendment: Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019-2024

Tertinger, Mike <Mike.Tertinger@linncounty.org>
Wed 6/12/2019 11:50 AM

To: Lientz, Stephanie <Stephanie.Lientz@linncounty.org>; Baxter, Rodd <Rodd.Baxter@linncounty.org>; Colston, Chad <Chad.Colston@linncounty.org>; Walker, Stacey <Stacey.Walker@linncounty.org>; Chris Thoms Email <tcthoms@mhcs.com>; Stephens, Julie <Julie.Stephens@linncounty.org>; O'Konek, Steve <Steve.OKonek@linncounty-ema.org>; Ketels, Brad <Brad.Ketels@linncounty.org>; Beck, Les <Les.Beck@linncounty.org>; Gallagher, Jon <jon.gallagher@linncounty.org>; Goemaat, Dennis <Dennis.Goemaat@linncounty.org>; Esmail, Kevin <Kevin.Esmail@linncounty-ema.org>
Cc: Tom Gruis <tom.gruis@ecicog.org>; Jennifer Fencl <jennifer.fencl@ecicog.org>; Howard, Holly - NRCS, Muscatine, IA <Holly.Howard@ia.nacdn.net>; Stevenson, Marybeth <marybeth.stevenson@dnr.iowa.gov>; Nichols, Charlie <Charlie.Nichols@linncounty.org>

2 attachments (623 KB)
Mitigation Strategies and Amendment.pdf; HM_NOFA_DR-4421.pdf

Good Morning Everyone,
The Lower Cedar Watershed Management Authority is proposing a minor amendment to the Mitigation Strategies of the Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019-2024 (HMP)

Why are you receiving this?
You are receiving this request as you were part of the hazard mitigation planning committee, or are a replacement for a prior committee member that reviewed the recent HMP update.

What is the amendment?
The amendment adds 4 new Mitigation Strategies and their associated Action Plans. (see attached)
They include:

- Complete a watershed hydrology study for any of the Watershed Management Authorities Linn County participates in to be used to prioritize flood mitigation projects
- Install green infrastructure and floodplain restoration projects—e.g. oxbows, bank stabilization, stormwater wetlands, permeable pavement, etc.—to reduce flood hazard risk
- Install river/flood gauges or other alert devices to provide advanced warnings and alerts
- Create educational materials or signage for flood hazard awareness

What is the purpose?
The purpose of the amendment is to better align the HMP Mitigation Strategies with FEMA disaster funding projects made available under the Hazard Mitigation Grant Program. (see attached)
In the next few weeks Linn County, on behalf of the Lower Cedar Watershed Management Authority, plans to submit a Notice of Interest under Priority #1 (category A) projects, specifically for a watershed hydrology study.

1 of 3 8/16/2019, 2:19 PM

Figure 1: Invitation to Planning Committee to Comment on Proposed Amendment, continued

<https://outlook.office.com/mail/AAMkAGJlYzgyYzg1LWJjYjEtNGM4NS1hZTEzLTA3NjEx...>

How do we process the amendment?
The procedure for amending the existing plan is outlined on [page 372 of the HMP](#).

During the plan effective period, there may changes in local conditions or priorities that result in the need to amend a mitigation strategy. The planning consultant will provide assistance to a jurisdiction that amends its mitigation strategy and communicate with Linn County Planning and Development during all steps in the process, which are the following:

1. The jurisdiction will work with the planning consultant to review the existing plan/mitigation strategy and develop the proposed mitigation action(s) to be amended into the jurisdiction's mitigation strategy.
2. The jurisdiction's governing body will allow public comment on the proposed amendment by either addressing the issue in a regular meeting or reconvening the hazard mitigation planning committee. The amendment will be approved by motion or resolution by the jurisdiction's governing body.
3. The planning consultant will submit the amendment to the mitigation strategy and action plan to Iowa Homeland Security and Emergency Management Department (IHSEMD). Once the amendment is approved by IHSEMD, the planning consultant will distribute the plan amendment information to all jurisdictions included in the plan.

What are we asking of you?
Linn County Planning & Development has completed step 1 and consulted with ECICOG to review the existing plan and develop new mitigation strategies.
We are asking the hazard mitigation planning committee to review the 4 new mitigation strategies/action plans and reply via email with your approval, concerns or suggestions. The email responses will be in lieu of reconvening an in-person meeting.

Please reply with one of the following:

- I have no concerns with the proposed amendment
- I have concerns or suggested edits for the proposed amendment (please include those suggestions in your reply)

We are kindly requesting all responses by end of day Wednesday June 19th.

Next Steps
If the planning committee approves the proposed amendment Linn County Planning and Development & ECICOG will present a resolution to the Linn County Board of Supervisors on July 1.
The July 1 Board of Supervisors meeting will also allow for public comment on the proposed amendment as is required in Step 2.

Thank you for your time and consideration.



MIKE TERINGER
Planner
PLANNING & DEVELOPMENT
935 2ND St. SW | Cedar Rapids, IA 52404
Ph: 319-892-5141 | Fax: 319-892-5155

2 of 3 8/16/2019, 2:19 PM

Figure 2: Linn County Resolution Approving Amendment

Prepared by and to be returned to: Mike Tertinger, Linn County Planning & Development
935 2nd Street S.W., Cedar Rapids, Iowa 52404-2100 (319) 892-5130

RESOLUTION APPROVING AN AMENDMENT TO THE LINN COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN 2019–2024

RESOLUTION # *2019-7-101*

WHEREAS, the Board of Supervisors has heretofore deemed it necessary and desirable to have a Hazard Mitigation Plan that identifies potential hazards and the actions that need to be taken to reduce or eliminate the long term risks to human life and property from those hazards for the citizens of Linn County; and

WHEREAS, a Local Mitigation Plan, as defined in 44 CFR Section 201.6 is required for local jurisdictions that elect to participate in FEMA hazard mitigation programs as a subapplicant or subgrantee; and

WHEREAS, Linn County has identified hydrology studies of watersheds overlapping its boundaries, green infrastructure and floodplain restoration, river flood gauges or other alert devices, and public education as desirable mitigation projects; and

WHEREAS, the aforementioned mitigation projects are not included in the mitigation strategy for Linn County in the Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019–2024; and

WHEREAS, mitigation projects must be included in the mitigation strategy to be considered for funding through FEMA hazard mitigation programs; and

WHEREAS, a public hearing was held on July 1, 2019 in accordance with amendment procedures outlined in the aforementioned plan;

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of Linn County, Iowa, that the amendment to the above-referenced Linn County Multi-Jurisdictional Hazard Mitigation Plan

Figure 2: Linn County Resolution Approving Amendment, continued

Linn County Board of Supervisors
 Resolution #2019-7-101
 Page 2

2019–2024 to include the aforementioned mitigation strategies for Linn County be and the same is hereby approved.

Passed and approved this 3rd day of July, 2019.

Linn County Board of Supervisors

 Chair

 Vice Chair

 Supervisor

Aye: 2
 Nay: 0
 Abstain: 0
 Absent: 1

Attest:

Joel Miller by Rebecca Sharp, Deputy

 Joel Miller, Linn County Auditor

State of Iowa)
) SS
 County of Linn)

Figure 2: Linn County Resolution Approving Amendment, continued

Linn County Board of Supervisors
Resolution #2019- 7-101
Page 3

I, Joel Miller, County Auditor of Linn County, Iowa hereby certify that at a regular meeting of the said Board of Supervisors the foregoing resolution was duly adopted by a vote of:

2 Aye 0 Nay 0 Abstain and 1 Absent from voting.

Joel Miller by Rebecca Sharp, Deputy
Joel Miller

Subscribed and sworn to before me by the aforesaid Joel Miller, on this 30th day of July, 2019, by Rebecca Sharp, Deputy

Jaime Guffey
Notary Public State of Iowa



Figure 3: Submittal to IHSEMD and Approval by FEMA

<https://outlook.office.com/mail/AAMkAGJlYzgyYzg1LWJjYjEtNGM4NS1hZTEzLTA3NjEx>

Fwd: Fw: Linn County Hazard Mitigation Amendment BOS Resolution

Noble, Mathew <mathew.noble@iowa.gov>
Mon 7/15/2019 10:20 AM
To: Tom Gruis <tom.gruis@ecicog.org>

All good for Linn County additions.

Thanks,
Mat

----- Forwarded message -----
From: **Sorg, Justin** <justin.sorg@fema.dhs.gov>
Date: Mon, Jul 15, 2019 at 10:18 AM
Subject: RE: Fw: Linn County Hazard Mitigation Amendment BOS Resolution
To: Noble, Mathew <mathew.noble@iowa.gov>

Thanks, Mat. I've noted in our files.

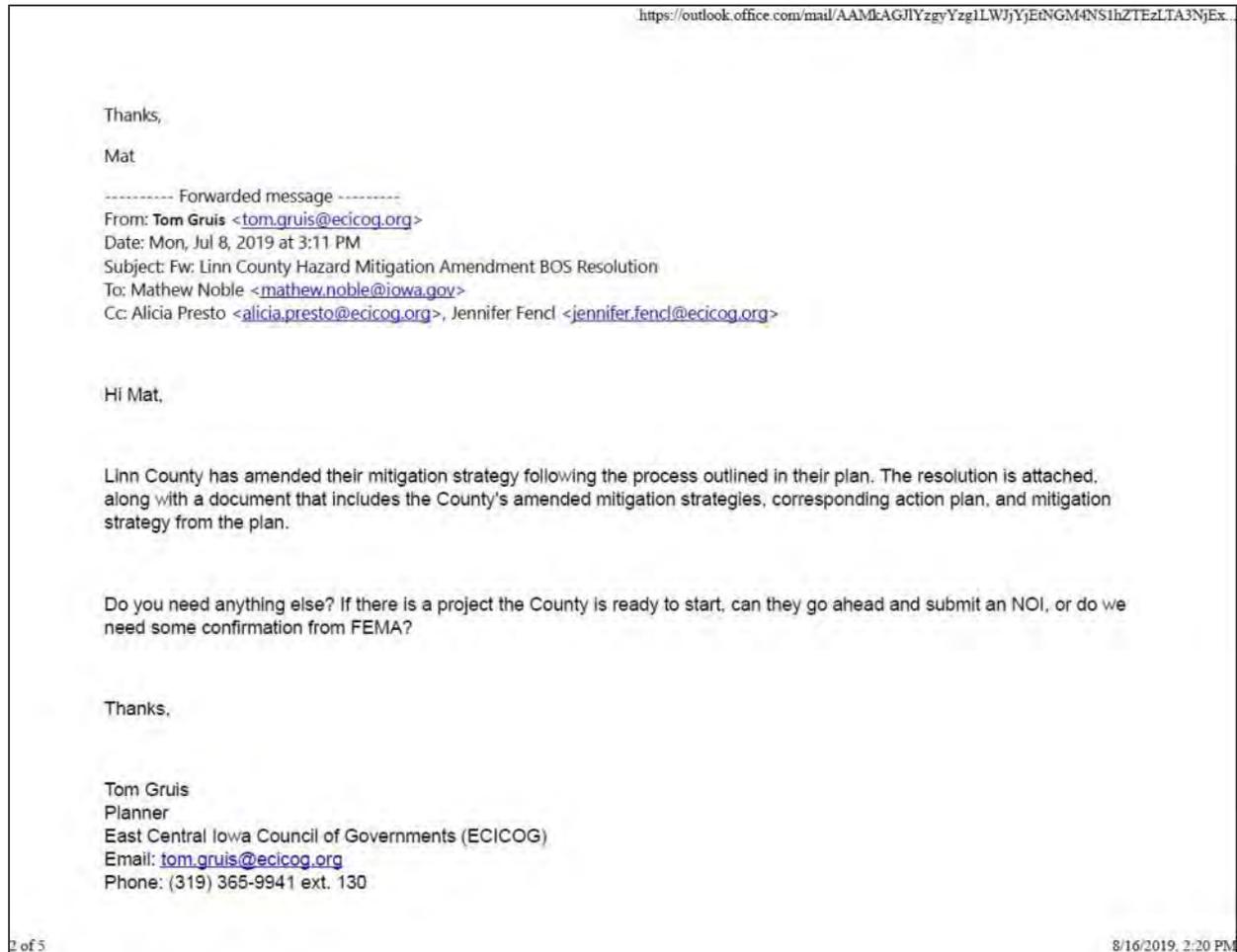
From: Noble, Mathew <mathew.noble@iowa.gov>
Sent: Monday, July 8, 2019 3:24 PM
To: Sorg, Justin <justin.sorg@fema.dhs.gov>
Subject: Fwd: Fw: Linn County Hazard Mitigation Amendment BOS Resolution

Attached are additions to mitigation actions for the Linn County Mitigation Plan. Not really an amendment according to FEMA definition as they aren't adding any jurisdictions.

Please let me know if for some reason these additions are unacceptable.

1 of 5 8/16/2019, 2:20 PM

Figure 3: Submittal to IHSEMD and Approval by FEMA, continued



Coggon

Coggon amended their mitigation strategy and corresponding action plan to include one additional mitigation action. Refer to Table 28 and Table 29. The City Clerk and Interim Superintendent for the Coggon Municipal Light Plan worked with the consultant to develop the new mitigation action and corresponding action plan. The proposed amendment was reviewed and approved by the Coggon City Council on October 12, 2021 with a resolution at a regularly scheduled Coggon City Council meeting. Refer to Figure 4. The amended mitigation strategy was submitted to the Iowa Homeland Security and Emergency Management Department, where it was forwarded to FEMA and approved in November 2021. Refer to Figure 5.

Mitigation Strategy Amendment

Table 28: Coggon Mitigation Strategy Amendment

Proposed Mitigation Action	Hazard(s) Addressed	Goal(s) Addressed	Inclusion in Existing Plan	Update/Notes
Develop and complete electric utility hardening projects	Tornado and windstorm, thunderstorm, lightning, and hail, severe winter storm, and infrastructure failure	1, 2, 3, 5	NA	Mitigation strategy added to be resolution in October 2021

Action Plan Amendment

Table 29: Coggon Action Plan Amendment

Priority Level	Proposed Mitigation Action	Lead	Potential Partner(s)	Benefit	Cost	Potential Funding Source(s)
1	Develop and complete electric utility hardening projects	Coggon Municipal Light Plant Superintendent	IHSEMD	High	Medium–High	City, HMA

Figure 4: Coggon Resolution Approving Amendment

RESOLUTION 20211012-2

**A RESOLUTION APPROVING AN AMENDMENT TO THE CITY OF COGAGON
MITIGATION STRATEGY IN THE LINN COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN 2019-2024**

Whereas, the City Council has heretofore deemed it necessary and desirable to have a hazard mitigation plan that identifies potential hazards and the actions to reduce or eliminate the negative impacts to human life and property from those hazards for the citizens of Coggon; and

Whereas, a local mitigation plan, as defined in 44 CFR Section 201.6, is required for jurisdictions that elect to participate in FEMA hazard mitigation programs as a subapplicant or subgrantee; and

Whereas, Coggon has identified developing and completing electric utility hardening projects as a necessary mitigation action to reduce the negative impacts of tornado and windstorm, thunderstorm lighting, and hail, severe winter storm, and infrastructure failure hazards; and

Whereas, the aforementioned mitigation action is not included in the mitigation strategy for the City of Coggon in the *Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019-2024*; and

Whereas, public comment was heard during a regular city council meeting on October 12, 2021 in accordance with amendment procedures outlined in the aforementioned plan;

Now, therefore, be it resolved by the City Council of Coggon, Iowa, that the addition to the *Linn County Multi-Jurisdictional Hazard Mitigation Plan 2019-2024* to include the aforementioned mitigation action for the City of Coggon be and the same is hereby approved.

AYES: Mesch, Kunde, Schott, Stanley

NAYS: _____

ABSENT: Hevia

APPROVED AND ADOPTED this 12th day of October, 2021 by the Coggon City Council.

Heather L Bech
Heather Bech, Mayor

Attest:
Brenda Quandt
Brenda Quandt, City Clerk

Figure 5: Submittal to IHSEMD and Approval by FEMA

Alicia Presto

From: Noble, Mathew <mathew.noble@iowa.gov>
Sent: Wednesday, November 10, 2021 3:09 PM
To: Alicia Presto
Cc: Brenda Quandt (coggon@qwestoffice.net)
Subject: Re: Coggon Addition to Linn County HazMit Plan

Alicia,

It was accepted and recorded by FEMA so it is official. Nothing more to do!

Thanks,
Mat

On Wed, Nov 10, 2021 at 3:03 PM Alicia Presto <alicia.presto@ecicog.org> wrote:

Hi Mat,

I'm just checking-in to see if Coggon's addition the Linn County plan has been approved or if you need anything else from us.

Thanks!

Alicia

Alicia Presto
Planner
www.ecicog.org

From: Alicia Presto
Sent: Tuesday, October 19, 2021 3:28 PM
To: 'mathew.noble@iowa.gov' <mathew.noble@iowa.gov>
Cc: Brenda Quandt (coggon@qwestoffice.net) <coggon@qwestoffice.net>
Subject: Coggon Addition to Linn County HazMit Plan

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Figure 5: Submittal to IHSEMD and Approval by FEMA, continued

