6 Inverness 2021 MJ-HMP Jurisdictional Annual Report

Primary Point of Contact

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Annual Reporting Year: 2021

Background: Cook County and participating municipalities in the county developed a hazard mitigation plan to reduce risk from all hazards by identifying resources, information, and strategies for risk reduction. The federal Disaster Mitigation Act of 2000 requires state and local governments to develop hazard mitigation plans as a condition for federal disaster grant assistance. To prepare the plan, the participating partners organized resources, assessed risks from natural hazards within the county, developed planning goals and objectives, reviewed mitigation alternatives, and developed an action plan to address probable impacts from natural hazards. By completing this process, these jurisdictions maintained compliance with the Disaster Mitigation Act, achieving eligibility for mitigation grant funding opportunities afforded under the Robert T. Stafford Act.

Purpose: The purpose of this report is to provide an annual update on the implementation of the action plan identified in the Cook County Multi-Jurisdictional Hazard Mitigation Plan. The objective is to ensure that there is a continuing and responsive planning process that will keep the Hazard Mitigation Plan dynamic and responsive to the needs and capabilities of the partner jurisdictions. This report discusses the following:

- Natural hazard events that have occurred within the last year
- · Changes in risk exposure within the planning area (all of Cook County) Mitigation success stories
- · Review of the action plan
- Changes in capabilities that could impact plan implementation
- · Recommendations for changes/enhancement.

Hazard Analysis

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2019 Cook County Multi-Jurisdictional Hazard Mitigation Plan Update. This section only addresses the hazards and their associated impacts that are **relevant** and **unique** to the municipality.

Flood: We experience flooding at Banbury Road, Palatine Road, and Dewey. This Impacts our access to roads and state systems.

High Winds: We experience high winds in central Inverness, which greatly impacts the overhead power lines resulting in a lack of power, which in turn, leads to no working wells (private). Aquifers and well data can be accessed through the Illinois State Geological Society Interactive Map (http://maps.isgs.illinois.edu/ilwater/)

Ice Storms: Areas with overhead power lines are susceptible to losing power during ice storms, putting our community at risk of having no working wells.

Extreme Heat and Cold: With a relatively older population (median age of 50.8), the residents over 65 are particularly susceptible to extreme climates.

Earthquake: While no fault line runs under the community, the community would like to incorporate building codes and debris planning that encompasses an all-hazards approach, which includes earthquake mitigation

Natural Hazard Events in 2021

Instructions: Please use the **Edit** Tool to describe new hazard occurrences/incidents from the past year that have impacted your jurisdiction and had a measurable impact on people or property. (Example: A tornado occurred on [Date] and impacted [insert area] and caused damage to [insert damages]). You may also use the Edit Tool to suggest any modifications/improvements to the hazards unique to your community, as described below from the 2019 plan.

Describe 2021 Natural Hazard Events Here:

- June 11 & 12, 2021, scattered thunderstorms developed across northern Illinois, the Inverness received approxmatily 2-Day rainfall off 1.25 inches with created isolated roadway flooding.
- July 29, 2021: Overnight Severe Storms Bring Wind Damage to Parts of Northern Illinois, Inverness expereinced wind gusts of up to 50 mph resulting in damaged tree limbs.
- August 10-11, 2021: Multiple Rounds of Severe Thunderstorms Produce Widespread Wind Damage: Inverness expereinced several damaged tree limbs.

Mitigation Strategies and Actions

The heart of the mitigation plan is the mitigation strategy, which serves as the long-term blueprint for reducing the potential losses identified in the risk assessment. The mitigation strategy describes how the community will accomplish the overall purpose, or mission, of the planning process.

New Mitigation Actions

Please submit here

Ongoing Mitigation Actions

The following are ongoing actions. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed. Reviewers of this report should refer to the Hazard Mitigation Plan for more detailed descriptions of each action and the prioritization process. Address the following for each mitigation action:

- Was any element of the action carried out during the reporting period?
- If no action was completed, why?
- Is the timeline for implementation or the action still appropriate?

	• If the	action was o	completed, does	it need to be chan	ged or removed fro	om the action plan?			
A - Action 12.1—Continue community outreach and preparedness education activities. Status Description: 2021, the Village continues to provide community outreach and preparedness education activities. Status Description: 2021, the Village continues to provide community outreach and preparedness education activities. In 2021, the Village updated the Stormwater management website to add the inverses Food Hazard Map and FEMA Flood Map GIS. O Ongoing All 1, 2, 5, 6, 11 Millage Stormwater management website to add the inverses Food Hazard Map and FEMA Flood Map GIS. O Ongoing All 1, 2, 5, 6, 11 Millage Stormwater management website to add the inverses Food Hazard Map and FEMA Flood Map GIS. O Ongoing All 1, 2, 5, 6, 11 Millage Stormwater management website to add the inverses Food Hazard Map and FEMA Flood Map GIS. O Ongoing All 1, 2, 5, 6, 11 Millage Stormwater Management Map and FEMA Flood Map GIS. O Ongoing All 1, 2, 5, 6, 11 Millage Stormwater Management Map and FEMA Flood Map GIS. O Ongoing Resilient Infrastructure and Communities (GRIC) Grant to the Illinois Emergency Management Agency to updated the 2021 ICS Cole and update the Village 1952 Flood and Stormwater Management Regulations: to current federal, state, and county regulations Stormwater Management Regulations: to current federal, state, and county regulations Stormwater Management Regulations: to current federal, state, and county regulations Stormwater Management Regulations: to current federal, state, and county regulations Stormwater Management Regulations: to current federal, state, and county regulations Stormwater Management Regulations: to current federal, state, and county regulations Stormwater Management Regulations: to current federal state will systematically provides services at leaved with particles and procedures that will systematically provides services at leaved with particles and procedures that will systematically provides services at leaved w				TABLE	: HAZARD MITIGA	ATION ACTION PLAI	N MATRIX		
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Ongoing Flood, Earthquake, Severe Weather, Tormado Tor	Action 12.4	4 —Develop	and maintain ar	all-hazard debris ı	removal plan.				
Ongoing Earthquake, Severe Weather, Tornado I, 2, 4, 8 Administration Status Description: X Ongoing Flood, Severe Weather Weather I, 2, 3, 9 Illinois Department of Transportation Medium Program, MWRD-Phase II Action 12.6—Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses. Status Description: 2021: Began planning for improvements to the Village Stormwater Management system to utilize ARPA funding. Ongoing All 7, 13 Village Administration High FEMA Hazard Mittgation Grants On funding)	Status Des	scription:						1	
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X Ongoing Flood, Severe Weather 1, 2, 3, 9 Illinois Department of Transportation Medium FEMA's RiskMAP program, MWRD-Phase II 2014, Short-term Phase			Banbury Flood	Study to reduce flo	oding and property	damage in teh NE se	ection of the Villag	je.	
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Status Description: Ongoing All 7, 13 Village Administration High FEMA Hazard Mitigation Grants On funding) Ongoing All Mitigation Grants	X		Ongoing		1, 2, 3, 9		Medium	program, MWRD-	2014, Short-term
2021: Began planning for improvements to the Village Stormwater Management system to utilize ARPA funding. Ongoing All 7, 13 Village Administration High FEMA Hazard Mitigation Grants Chepending on funding)					chase, or relocation	of structures in haza	ard-prone areas t	o prevent future stru	cture damage. Give
O Ongoing All 7, 13 Village High High Mitigation Grants (depending on funding)		·	for improvem	ents to the Village	e Stormwater Man	agement system to	utilize ARPA fu	nding.	
	0		Ongoing	All	7, 13		High		(depending
	Action 12.7	7—Continue	to support the	countywide actions	identified in this pla	an			

Status Desc	ription:							
0		Ongoing	All	All	Village Administration	Low	General Fund	Short-term and Long- term
Action 12.8-	-Actively p	articipate in the	plan maintenance	strategy identified	in this plan.			
Status Desc	ription:					1		
0		Ongoing	All	3, 4, 6	DHSEM Village Administration	Low	General Fund	Short-term
Action 12.9	-Consider	participation in	incentive-based pr	ograms such as th	e Community Rating	System, Tree Cit	y, and StormReady.	
Status Desc	ription:							
					egan the process to ed to advance this			
0		Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village Administration	Low	General Fund	Long-term
requirements	s. Such pro	grams include e		ed flood damage pr	Program by implemen evention ordinance, p			
Status Desc	ription:							
management	website to	add the Invern		ap and FEMA Flood	education activities. I Map GIS. Current r			
0		Ongoing	Flooding	4, 6, 9	Village Administration	Low	General Fund	Short-term and ongoing
Action 12.11	—Where for	easible, implem	ent a program to re	ecord high water m	arks following high-w	ater events.		
Status Desc	ription:							
2021: Seeki	ing fundin	g for this proje	ect.					
0		Ongoing	Flooding, Severe Weather	3, 6, 9	Village Administration	Medium	General Fund, FEMA Grant Funds (Public Assistance)	Long-term
Action 12.12	!—Integrate	the hazard mit	tigation plan into ot	her plans, program	ıs, or resources that o	lictate land use o	r redevelopment.	
Status Desc	ription:							
0		Ongoing	All	3, 4, 6, 10, 13	Contracted Engineer	Low	General Fund	Short-term
		r the development		ation of a Capital Ir	nprovements Prograr	n (CIP) to increas	e the Village's regul	atory, financial and
Status Desc	ription:							
0		Ongoing	All	1, 2, 7	Public Works	High	CIP component of general fund (if Implemented)	Long-term
Action 12.14	I—Impleme	ent Culvert clear	ning and widening p	orogram				
Status Desc	ription:							
2021: Conti	nuing to p	rovide educat	ional material on	the importance C	ulvert cleaning and	maintenance.		
0		New	Flood	2, 7, 9	Village Administration	Medium/High	General Fund/Private	2022, Short-term
Action 12.15	— Joint En	nergency Mana	gement					
Status Desc	ription:							
New	-	-	All	1, 2, 3, 4, 5, 6	-	Low	-	-
Action 12.16	— Emerge	ncy Manageme	ent Plan					
Status Desc	ription:							
New	-	-	All	1, 2, 3, 4, 5, 6`	-	Low	-	-
Action 12.17	— Storm V	Vater System S	Burvey					
Status Desc	ription:							
New	-	-	Flood	3	-	Medium	-	-
Action 12.18	Emerge	ncy On-call List						

Status Des	Status Description:							
New	-	-	All	3	-	Low	-	-
Action 12.	Action 12.19—EOC Improvements							
Status Des	Status Description:							
New	New All 3 - High							
	(a) Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.							

Mitigation Success Stories: Examples of mitigation success stories include, but are not limited to: received a Grant, completed a major mitigation project, etc.

Future Needs: Examples of future needs include, but are not limited to: receiving training to better understand the mitigation grant application process, studies that may be needed to better understand hazards/risks, etc.

As a small, staffed community, scheduling emergency training without impacting day-to-day operation is challenging. Utilizing on-line training and exercises options would benefit our community, including providing training and educational material for our private contractors.

6.1 Action 12.15

Mitigation Action	Joint Emergency Management
Year Initiated	2021
Applicable Jurisdiction	Village of Inverness
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	 Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events. Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards. Develop, promote, and integrate mitigation action plans. Promote public understanding of and support for hazard mitigation.
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefit Analysis (Low, Medium, High)	-
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description			
Action/Implementation Plan and Project Description:	Ongoing: Partner with neighborhood communities on emergency response and continuity of operation plans.		

Mitigation Action and Project Maintenance				
Year	Status	Comments		
2019				
2020				
2021	New			
2022				
2023				

	Mitigated Hazards
X	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

6.2 Action 12.16

Mitigation Action	Emergency Management Plan
Year Initiated	2021
Applicable Jurisdiction	Village of Inverness
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	 Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events. Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards. Develop, promote, and integrate mitigation action plans. Promote public understanding of and support for hazard mitigation.
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	-
Benefit Analysis (Low, Medium, High)	Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
Actual Completion Date	-

Autual Completion Bate			
	Recommended Mitigatio	n Action/Implementation Plan and Project Description	
Action/Implementation Plan and Project Description:			
	Mitigat	ion Action and Project Maintenance	
Year	Status	Comments	
2019			
2020			
2021	New		
2022			
2023			

	Mitigated Hazards
X	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

6.3 Action 12.17

0.07(00011 12.11	
Mitigation Action	Storm Water System Survey
Year Initiated	2021
Applicable Jurisdiction	Village of Inverness
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	Low Priority
Benefit Analysis (Low, Medium, High)	Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
Cost Analysis (Low, Medium, High)	Medium—The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description				
Action/Implementation Plan				
and Project Description:	S mapping for underground stormwater system, which is currently hand-drawn.			

itigation Action and Project Maintenance		
Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

	Mitigated Hazards
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
Х	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

6.4 Action 12.18

Mitigation Action	Emergency On-call List
Year Initiated	2021
Applicable Jurisdiction	Village of Inverness
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	Low Priority
Benefit Analysis (Low, Medium, High)	Low—Long-term benefits of the project are difficult to quantify in the short term.
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description		
Action/Implementation Plan and Project Description:	Establish an emergency on call contract with a general contractor to provide assistance with equipment and operators	

Mitigation Action and Project Maintenance		
Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

	Mitigated Hazards		
Х	All Hazards		
	Dam/Levee Failure		
	Drought		
	Earthquake		
	Flood		
	Extreme Heat		
	Lightning		
	Hail		
	Fog		
	High Wind		
	Snow		
	Blizzard		
	Extreme Cold		
	Ice Storms		
	Tornado		
	Epidemic or pandemic		
	Nuclear Power Plant Incident		
	Widespread Power Outage		
	Coastal Erosion		
	Secondary Impacts from Mass Influx of Evacuees		
	Hazardous Materials Incident		

6.5 Action 12.19

0.0 7 (01(01) 12.10	
Mitigation Action	EOC Improvements
Year Initiated	2021
Applicable Jurisdiction	Village of Inverness
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	Low Priority
Benefit Analysis (Low, Medium, High)	Low—Long-term benefits of the project are difficult to quantify in the short term.
Cost Analysis (Low, Medium, High)	High—Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases).
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description		
Action/Implementation Plan	Improve the EOC facility equipment and supplies, Improve data connectivity and redundancy to make it more resilient to	
and Project Description:	disruption. Create a formal plan for a back-up EOC Facility.	

Mitigation Action and Project Maintenance		
Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

	Mitigated Hazards		
Х	All Hazards		
	Dam/Levee Failure		
	Drought		
	Earthquake		
	Flood		
	Extreme Heat		
	Lightning		
	Hail		
	Fog		
	High Wind		
	Snow		
	Blizzard		
	Extreme Cold		
	Ice Storms		
	Tornado		
	Epidemic or pandemic		
	Nuclear Power Plant Incident		
	Widespread Power Outage		
	Coastal Erosion		
	Secondary Impacts from Mass Influx of Evacuees		
	Hazardous Materials Incident		