

6 Arlington Heights 2021 MJ-HMP Jurisdictional Annual Report

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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/Severe Weather: Multiple areas are prone to urban flooding in the community which causes road blockages, especially in poor drainage areas.

Hail: This event occurs during thunderstorms, which often cause flooding and severe wind events. Power line, structures, and trees are frequently damaged.

Tornado/High Winds: High winds have historically affected residential areas, causing downed trees and downed electrical lines.

Snow: Senior citizens and individuals with functional and access needs in the community have historically had issues when there is a large amount of snow or severe winter weather.

Extreme Cold: Senior citizen complexes/housing, and those that reside in those facilities are especially vulnerable during extreme cold incidents.

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: No natural hazards impacted the Village of Arlington Heights in 2021.

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 completed, does it need to be changed or removed from the action plan?
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TABLE: HAZARD MITIGATION ACTION PLAN MATRIX

Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken								
2021 Status	2020 Status	2019 Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
Action A2.1 —Construction & maintenance of the Lake Arlington retention & Wilke Rd. detention basins and the Weller Creek flood control projects.								
Status Description:								
2020: Completed. This is not an ongoing project.								
-	-	Completed	Urban Flooding	1, 2, 9, 10, 13	Public Works Dept.	\$140,000,000; High	Grants, Bonds & CIP	Long Term
Action A2.2 —Construction of rear yard storm sewers in chronic flood prone areas.								
Status Description:								
2020: 2020 Program was cancelled due to the COVID pandemic.								
O		Ongoing	Urban Flooding	1, 2, 9, 10, 13	Public Works Dept.	\$800,000; High	Il. Dept. of Commerce grant, CIP	Long Term
Action A2.3 —Implementation of a rebate program to help owners of older homes install overhead sewers or install a sewer back up system.								
Status Description: We helped 15 residents								
2020:The program was implemented and is ongoing.								
O		Ongoing	Urban Flooding	1, 2, 6, 8, 9, 10, 13	Public Works Dept.	\$725,000; Medium	CIP	Long Term
Action A2.4 —Commission two studies, one regarding areas of chronic flooding and a second regarding a combined Storm/Sanitary sewer system in the older part of the village.								
Status Description:								
2020: Completed.								
-	-	Completed	Urban Flooding	1, 2, 6, 8, 9, 10, 13	Public Works Dept.	\$200,000; Low	CIP	Short Term and Ongoing
Action A2.5 —Implement recommendations from studies mentioned in Action A2.4.								
Status Description:								
2020: Two projects were completed in 2019. The 2020 projects were cancelled due to the COVID pandemic.								
O		Ongoing	Urban Flooding	1, 2, 6, 8, 9, 10, 13	Public Works Dept.	Study due by June 2014; Medium	CIP	Long Term
Action A2.6 —Print & distribute the 2014 Arlington Heights Multi-Hazard Emergency Preparedness Guide.								
Status Description:								
2020: Completed.								
-	-	Completed	All	1, 6, 8, 11, 13	Emergency Management	\$10,000; Low	General Fund	Completed
Action A2.7 —Update, bi-annually, the Arlington Heights Emergency Operations Plan.								
Status Description:								
EOP updated June 2021								
O		Ongoing	All	1, 4, 5, 6, 8	Emergency Management	\$1,000; Low	General Fund	Short Term
Action A2.8 —Continue to improve and maintain the Everbridge Mass Notification System.								
Status Description:								
Both Police and Fire are regularly using Everbridge and becoming more familiar with it.								
O		Ongoing	All	1, 5, 6, 8, 11, 12	Admin.	\$112,000; Low	General Fund & 911 budget	Short Term and Ongoing
Action A2.9 —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:								
O		Ongoing	All	7, 13	Village of Arlington Heights	High	FEMA Hazard Mitigation Grants	Long-Term (depending on funding)
Action A2.10 —Continue to support the countywide actions identified in this plan.								
Status Description:								
O		Ongoing	All	All	Village of Arlington Heights	Low	General Fund	Short- and long-term
Action A2.11 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description:								
O		Ongoing	All	3, 4, 6	DHSEM, Village of Arlington Heights	Low	General Fund	Short-term
Action A2.12 —Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.								
Status Description: Scheduling Stormready training for spring 2022								
O		Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Arlington Heights	Low	General Fund	Long-term
Action A2.13 —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.								
Status Description:								
X		Ongoing	Flooding	4, 6, 9	Village of Arlington Heights	Low	General Fund	Short-term and ongoing
Action A2.14 —Where feasible, implement a program to record high water marks following high-water events.								
Status Description:								
O		Ongoing	Flooding, Severe Weather	3, 6, 9	Village of Arlington Heights	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
Action A2.15 —Integrate hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.								
Status Description:								
O		Ongoing	All	3, 4, 6, 10, 13	Arlington Heights Planning, Engineering & Community Development Departments	Low	General Fund	Short-term
Action A2.16 —Increase combined sewer system capacity by installing larger pipes and parallel pipes to mitigate basement backups.								
Status Description: Complete cypress basin in 2020 and Greenbrier project in 2021. Next working on the Arlington and Hintz Rd project.								
O		New	Flooding	2, 9	Village of Arlington Heights	\$15,200,000; Medium	Local	2023
Action A2.17 —Replace emergency generator to increase the Village's resiliency.								
Status Description: Checking status								
O		New	Earthquake, Lightning, Hail, High Wind, Snow, Blizzard, Extreme Cold, Ice Storms, Tornado, Widespread Power Outage	2, 9	Village of Arlington Heights	\$1,000,000; Medium	Local	2021
Action A2.18 —Develop Permeable Parking Lot Pavers and a Bio-infiltration Basin.								
Status Description:								

-	-	Completed	Flooding	1, 2, 8, 9	Village of Arlington Heights	\$1,515,000; High	Local, MWRD (23.6%)	Completed
Action A2.19 —Install Relief Sewers to Mitigate Basement Backups in Arlington Heights.								
Status Description:								
O		New	Flooding	2, 9	MWRD	\$1,800,000	MWRD, TBD	TBD
Action A2.20 —Berkley/Hintz Strom water improvement project								
Status Description:								
N	-	-	Flood	1, 2, 4	Village of Arlington Heights	\$5.5 million	local funds	November 2022
Action A2.21 —Review and update building codes								
Status Description:								
N	-	-	Flood, Extreme Heat, High Wind	2,6	Building and Life Safety	-	local funds	Ongoing
(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.

2020: Cypress retention basin - Mitigation of flooding from the residential area. New storm water pipes and a retention basin was dug to hold storm water on a temporary basis. [Cypress Detention Basin Projects - Village of Arlington Heights \(vah.com\)](#)

2021: Greenbriar storm water plan - the expansion of Happiness Park detention to mitigate flooding in the residential area. The project include new storm water pipes, new water mains and services. New gas lines and services were also install by the locate utility. [PowerPoint Presentation \(vah.com\)](#)

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.

Training on the NFIP.

6.1 Action A2.20

Mitigation Action	Berkley/Hintz Strom water improvement project
Year Initiated	2021
Applicable Jurisdiction	Village of Arlington Heights
Lead Agency/Organization	Village of Arlington Heights
Supporting Agencies/Organizations	-
Applicable Goal	<ul style="list-style-type: none"> • 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. • Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards.
Potential Funding Source	Local Funds
Estimated Cost	\$5.5 million
Benefits (loss avoided)	Mitigate Flooding and Property Loss
Projected Completion Date	November 2022
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefit Analysis (Low, Medium, High)	High—Project will provide an immediate reduction of risk exposure for life and 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	

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:		
Mitigation Action and Project Maintenance		
Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

Mitigated Hazards

	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
X	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 A2.21

Mitigation Action	Review and update building codes
Year Initiated	Ongoing
Applicable Jurisdiction	Arlington Heights
Lead Agency/Organization	Building and Life Safety
Supporting Agencies/Organizations	-
Applicable Goal	<ul style="list-style-type: none"> • Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. • Promote public understanding of and support for hazard mitigation.
Potential Funding Source	Local Funds
Estimated Cost	-
Benefits (loss avoided)	Safety and resilient structures
Projected Completion Date	Ongoing
Priority and Level of Importance (Low, Medium, High)	Medium 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:		
Mitigation Action and Project Maintenance		
Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

Mitigated Hazards

	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
X	Flood
X	Extreme Heat
	Lightning
	Hail
	Fog
X	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