

# 6 Northbrook 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:** Our flood-prone areas are identified in our Master Stormwater Management Plan.

**Wind and Tornado:** Wind, especially in conjunction with thunderstorms, has done considerable damage in the area.

**Severe Cold and Winter Storms:** Snowfall can reach high levels during storms in the area. In addition to winter storms, lake effect snow can impact the area.

## 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 significant natural hazard events 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?

**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)
<b>Action N3.1</b> —Integrate the hazard mitigation plan into other plans, ordinances, or programs to dictate land uses within the jurisdiction								
<b>Status Description:</b>								
O	O	Ongoing	All	3, 4, 6, 10, 13	Fire, Public Works	Low	Local	Ongoing
<b>Action N3.2</b> —Update the municipality's emergency operations center								
<b>Status Description:</b>								
<b>2020: Completed</b>								
C	C	Ongoing	All	1, 2, 5, 8	Fire	Low	Local	Short-term
<b>Action N3.3</b> —Increase capability for snow removal.								
<b>Status Description:</b>								
O	O	Ongoing	Severe Winter Weather	1, 6, 11	Public Works	High	FEMA Hazard Mitigation Grant Funds	Long-term
<b>Action N3.4</b> —Strive to capture perishable data after significant hazard events to support future updates to the risk assessment of this plan								
<b>Status Description:</b>								
O	O	Ongoing	All	3, 6, 8	Planning, Public Works	High	General revenue, FEMA Grants	Long-term and ongoing
<b>Action N3.5</b> —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.								
<b>Status Description:</b>								
O	O	Ongoing	Flood	3, 4, 6, 7, 9	Planning, Public Works	Low	Local	Ongoing
<b>Action N3.6</b> —Consider the development of a post-disaster action plan, including a debris management plan								
<b>Status Description:</b>								
O	O	Ongoing	All	1, 6, 8	Public Works	Low	Local	Long-term
<b>Action N3.7</b> —Maintain the municipality's tornado warning system								
<b>Status Description:</b>								
O	O	Ongoing	Severe Weather, Tornado	1, 5, 6, 12	Police, Fire	Low	Local	Ongoing
<b>Action N3.8</b> —Continue to support the county-wide actions identified in this plan								
<b>Status Description:</b>								
O	O	Ongoing	Multi-Hazard	All	All Departments	Low	Local	Ongoing
<b>Action N3.9</b> —Establish and continue partnerships between public and private sectors including CERT								
<b>Status Description:</b>								
O	O	Ongoing	Multi-Hazard	3, 6, 8, 13	All Departments	Low	Local	Ongoing
<b>Action N3.10</b> —Strive to implement processes or structures to protect high-risk areas affected by floods								
<b>Status Description:</b>								
O	O	Ongoing	Flood	2, 3, 6, 7, 9, 10	Planning, Public Works	High	General revenue, Grants	Long-term
<b>Action N3.11</b> —Actively participate in the plan maintenance strategy identified in this plan.								
<b>Status Description:</b>								
O	O	Ongoing	All	3, 4, 6	DHSEM, Village	Low	General Revenue	Short-term
<b>Action N3.12</b> —Implement Blackthorne Lane Stormwater Project- Improve street drainage collection system.								
<b>Status Description:</b>								
<b>2020: Complete</b>								

C	C	New	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$263,000; Low	Bonds	October 2019
<b>Action N3.13</b> —Implement Williamsburg Drive/Old Post Road Stormwater Management Project (Master Stormwater Management Plan Project 21).								
<b>Status Description:</b>								
2020: Ongoing								
R			Flood	2, 3, 4, 12, 13	Village of Northbrook	\$270,000; Low	Grants, Local Funds	2025
<b>Action N3.14</b> —Implement Brittany Road Stormwater Management Project (Master Stormwater Management Plan Project 24).								
<b>Status Description:</b>								
2020: Completed								
C	C	New	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$319,870; Low	Grants, Local Funds	2020
<b>Action N3.15</b> —Implement Dehne Subdivision Stormwater Management Project (Master Stormwater Management Plan Project 24).								
<b>Status Description:</b>								
2020: Complete								
C	C	New	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$420,35; Low	Grants, Local Funds	2019
<b>Action N3.16</b> —Implement First Street/Center Avenue Stormwater Management Project (Master Stormwater Management Plan Project 24).								
<b>Status Description:</b>								
2020: Ongoing								
C	O	New	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$567,000; Low	Grants, Local Funds	2021
<b>Action N3.17</b> —Implement Landwehr Road/Sunset Trail Intersection Stormwater Management Project (Master Stormwater Management Plan Project 26).								
<b>Status Description:</b>								
2020: Ongoing								
O	O	New	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$525,250; Low	Grants, Local Funds	2021
<b>Action N3.18</b> —Implement Longvalley Drive Stormwater Management Project (Master Stormwater Management Plan Project 27).								
<b>Status Description:</b>								
2020: Complete								
C	C	N	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$16,440; Low	Grants, Local Funds	2019
<b>Action N3.19</b> —Implement Second Street Culvert Replacement.								
<b>Status Description:</b>								
2020: Ongoing								
O	O	N	Flood	2, 3, 4, 7, 12, 13	Village of Northbrook	\$373,933; Low	Grants, Local Funds	2020
<b>Action N3.20</b> —Implement Surrey Lane Stormwater Management Project (Master Stormwater Management Plan Project 28).								
<b>Status Description:</b>								
2020: Completed								
C	C	N	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$130,902; Low	Grants, Local Funds	2020
<b>Action N3.21</b> —Implement Wendy Drive Stormwater Management Project (Master Stormwater Management Plan Project 28).								
<b>Status Description:</b>								
2020: Completed								
C	C	N	Flood	2, 3, 4, 12, 13	Village of Northbrook	\$765,000; Low	Grants, Local Funds	2020
<b>Action N3.22</b> —								
<b>Status Description:</b>								

N	-	-	Flood	2	Village of Northbrook	\$375,000	Local Funds	2023
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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.

The Village Storm Water Commission will be creating a third addendum the the Storm Water Management Plan in 2022. This addendum will include a list of new projects that will be added to the Hazard Mitigation Plan next year.

## 6.1 Action N3.22

<b>Mitigation Action</b>	Willow Creek Stormwater Management Project (Master Stormwater Management Plan Project #31)
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	Northbrook
<b>Lead Agency/Organization</b>	Northbrook
<b>Supporting Agencies/Organizations</b>	-
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> </ul>
<b>Potential Funding Source</b>	Local Funds
<b>Estimated Cost</b>	\$375,000
<b>Benefits (loss avoided)</b>	Reduce flooding and potential flooding in the Willow Creek Subdivision
<b>Projected Completion Date</b>	2023
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium Priority
<b>Benefit Analysis (Low, Medium, High)</b>	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.
<b>Cost Analysis (Low, Medium, High)</b>	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	Dredging existing creek. Install new higher capacity storm sewer inlets and storm sewer piping.
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### 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