

6 Wheeling 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*: The Village has experienced flooding at the Dunhurst East (Southeast of Dundee Road and Elmhurst Road) and Meadowbrook (Wolf Road) Subdivisions. Multiple areas in the Village suffer from repeated flooding. Potential buyouts or infrastructure projects to address the flooding in the rep. loss areas represent future mitigation projects/opportunities.

Extreme Heat: The Village's seven (7) nursing homes leave the community vulnerable to extreme heat.

High Winds: The community has experienced high winds at the Chicago Executive Airport (Milwaukee Avenue and Palatine Road).

Extreme Cold: Similar to the impacts of extreme heat, the community is especially vulnerable to extreme cold because of its seven (7) nursing homes.

**The intersection of Wayne Pl/Bridget Pl intersection and Lakeside Circle once suffered from repeated flooding. These intersections have been dealt with through the installation of larger storm drains. Flooding should no longer be an issue.*

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: [Type Here]

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

<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>								
2021 Status	2020 Status	2019 Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
Action W3.1 —Corrugated Metal Arch Storm Line Replacement								
Status Description:								
C	-	Completed	Flood, Severe Weather	1, 2, 9	Village of Wheeling	\$1.5 million; Low	Village of Wheeling	Completed
Action W3.2 —Replace Jeffrey Avenue Bridge.								
Status Description:								
C	-	Completed	Flood, Severe Weather	1, 2	Village of Wheeling	\$1.18 million; Low	Highway Bridge Replacement & Rehabilitation, Village of Wheeling	Completed
Action W3.3 —Develop Stormwater Master Community Plan.								
Status Description:								
C	-	Completed	Flood, Severe Weather	1, 3, 9	Village of Wheeling	\$130,000; Low	Village of Wheeling, Grants	Completed
Action W3.4 —Complete Acquisition of Fox Point Mobile Home Park (Repetitive Loss Mitigation).								
Status Description:								
C	-	Completed	Flood, Severe Weather	1, 3, 7	Village of Wheeling	\$5.5 million; High	Highway Bridge Replacement & Rehabilitation, Village of Wheeling	Completed
Action W3.5 —Harden glass on all Village critical buildings.								
Status Description:								
O		Ongoing	Severe Weather, Tornado, Earthquake	1, 4, 5	Village of Wheeling	\$1.5million; Medium	Highway Bridge Replacement & Rehabilitation, Village of Wheeling	2016/2017, Short-term
Action W3.6 —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:								
O		Ongoing	All	7, 13	Village of Wheeling	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action W3.7 —Continue to Support the County-wide Actions Identified in the Plan.								
Status Description:								
O		Ongoing	All	All	Village of Wheeling	Low	General Fund	Short- and Long-term
Action W3.8 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description:								
O		Ongoing	All	3, 4, 6	DHSEM, Village of Wheeling	Low	General Fund	Short-term
Action W3.9 —Continue to Maintain/Enhance the Village's Classification Under the CRS Program.								
Status Description:								
O		Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Wheeling	Low	General Fund	Long-term
Action W3.10 —Maintain Good Standing Under the National Flood Insurance Program.								

Status Description:								
O		Ongoing	Flooding	4, 6, 9	Village of Wheeling	Low	General Fund	Short-term and Ongoing
Action W3.11 —Implement a Program to Record High Water Marks Following High Water Events.								
Status Description:								
O		Ongoing	Flooding, Severe Weather	3, 6, 9	Village of Wheeling	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
Action W3.12 —Integrate the HMP into Other Plans, Programs, or Resources that Dictate Land Use or Redevelopment.								
Status Description:								
O		Ongoing	All	3, 4, 6, 10, 13	Community Development	Low	General Fund	Short-term
Action W3.13 —Develop Storm Water Modeling Program of the Dunhurst Subdivision to Analyze the Options for Further Flood Mitigation.								
Status Description:								
O		Ongoing	Flooding, Severe Weather	2, 3	Village of Wheeling	TBD	TBD	2019/2020
Action W3.14 —Implementation of Storm Water Credit Allocation Program (I.E. Heritage Lake Utilization by Developers).								
Status Description:								
C	-	Completed	Flooding, Severe Weather	1, 11	Village of Wheeling	TBD	TBD	2018
Action W3.15 —Storm Water Diversion - Northside of Dundee Road to Heritage Lake.								
Status Description:								
C	-	Completed	Flooding, Severe Weather	2, 7, 13	Village of Wheeling	TBD	TBD	2018
Action W3.16 —Remapping of Buffalo Creek Floodplain.								
Status Description:								
C		Ongoing	Flooding	1, 3, 4	Village of Wheeling	TBD	TBD	2019
Action W3.17 —Implement Drainage Improvements in East Dunhurst subdivision, East Chester subdivision, and North Wheeling Road								
Status Description:								
O		New	Flooding	7, 9	Village of Wheeling	\$3,936,404; High	Grants and Local Funding	2022
Action W3.18 —Implement Wheeling Park District – Chamber Park Rain Garden								
Status Description:								
O		New	Flooding	13	MWRD	\$160,000	MWRD	TBD
(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.

6.1 Action W3.19

Mitigation Action	South Dunhurst Drainage Study
Year Initiated	2021
Applicable Jurisdiction	Wheeling
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	-
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	-
Benefit Analysis (Low, Medium, High)	-
Cost Analysis (Low, Medium, High)	-
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description	
Action/Implementation Plan and Project Description:	Engineering study to determine feasible drainage improvement projects for the neighborhood, as described in the 2015 Stormwater Master Plan

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 W3.20

Mitigation Action	Stream Bank stabilization project
Year Initiated	2021
Applicable Jurisdiction	Wheeling
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	-
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	-
Benefit Analysis (Low, Medium, High)	-
Cost Analysis (Low, Medium, High)	-
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	Based on the Lake County Stormwater Commission assessment, stabilize 1,500 linear feet of Buffalo Creek. Phase I and II: \$245,000 Phase III: \$2,100,000
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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

6.3 Action W3.21

Mitigation Action	Hintz Road/Echo Lake storm sewer improvement project
Year Initiated	2021
Applicable Jurisdiction	Wheeling, Illinois
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	-
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	-
Benefit Analysis (Low, Medium, High)	-
Cost Analysis (Low, Medium, High)	-
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	repair 48" storm sewer--\$350,000
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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

6.4 Action W3.22

Mitigation Action	South Dunhurst Drainage Improvement Project
Year Initiated	2021
Applicable Jurisdiction	Wheeling, Illinois
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	-
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	-
Benefit Analysis (Low, Medium, High)	-
Cost Analysis (Low, Medium, High)	-
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description	
Action/Implementation Plan and Project Description:	Based on the findings of the drainage study, replace or reconstruct neighborhood drainage system, and add 4 acre feet of detention and compensatory storage to eliminate single family home flooding--\$5,500,000

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

6.5 Action W3.23

Mitigation Action	Create a Bioswale to reduce potential flooding
Year Initiated	2021
Applicable Jurisdiction	Wheeling, Illinois
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	-
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	-
Benefit Analysis (Low, Medium, High)	-
Cost Analysis (Low, Medium, High)	-
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	Create a bioswale on the plat of land where a new fire station is designated to be built.
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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

6.6 Action W3.24

Mitigation Action	A generator is needed for a new fire station
Year Initiated	2021
Applicable Jurisdiction	Wheeling, Illinois
Lead Agency/Organization	-
Supporting Agencies/Organizations	-
Applicable Goal	-
Potential Funding Source	-
Estimated Cost	-
Benefits (loss avoided)	-
Projected Completion Date	-
Priority and Level of Importance (Low, Medium, High)	-
Benefit Analysis (Low, Medium, High)	-
Cost Analysis (Low, Medium, High)	-
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	A new fire station is slated to built in wheeling, IL. Having a generator to be used during a power outage will assist first responders to keep working to protect the village.
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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
	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
X	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident