

6 Glenwood 2021 MJ-HMP Jurisdictional Annual Report

Primary Point of Contact

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Note: Per the jurisdiction's request, the Alternate Point of Contact is different than the contact submitted in the 2019 Letter of Intent.

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: There are a group of homes on Park Drive in the Manor subdivision that are at risk of repetitive damage from flooding of the Thorn Creek.

Fog: Low lying land between Cottage Grove and 394 experiences fog that affects commuters.

High Winds: Commuters driving through forest preserve property on Main St. from 187th to State Street and Bluewood Dyer Rd to Cottage Grove are at risk for injury and property damage due to falling branches/trees.

Severe Weather: 2014 - Scattered severe thunderstorms developed across northern Illinois producing mainly large hail with a few sporadic areas of wind damage. One storm in particular became quite intense as a right-moving supercell that tracked across the western and southern suburbs of Chicago.

Severe Winter Weather / Tornado: May 27th 2019 - a severe thunderstorm capable of producing a tornado was located over Steger, moving northeast at 25 mph. Tornado warning with hazards of ping pong sized hail advisories to neighboring areas including Glenwood.

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]

Not applicable for 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)
Action G4.1 —Increase drainage/absorption capabilities on the west sides of the Village by constructing detention and retention basins.								
Status Description:								
-	-	Completed	Flood, Severe Weather	1, 2, 3, 9, 12, 13	Village	High	General revenue, Grant	Completed
Action G4.2 —The televising and repairing of all sanitary sewer lines and the rehabilitation / sealing of all sanitary structures through-out the Village to eliminate infiltration and stop sewer backups.								
Status Description:								
O		Ongoing	Flood, Severe Weather	1, 2, 9	Village	High	General revenue, Grant	Ongoing
Action G4.3 —Develop a community warming/cooling center that can also serve as a safe-room for Tornado events.								
Status Description:								
C		Ongoing	Severe Weather, Severe Winter Weather, Tornado	5, 8	Village	Medium	General Revenue, FEMA Grants	Short-term
Action G4.4 —Participate in the Community Rating System.								
Status Description:								
O		Ongoing	Flood	3, 4, 5, 6, 7, 9, 10, 11, 13	Village	Low	General Revenue	Short-term
Action G4.5 —Developing and maintaining a GIS database to track community vulnerability and exposure in known hazard areas.								
Status Description:								
O		Ongoing	Multi-hazard	1, 2, 5, 6	Village	High	General Revenue	Short-term
Action G4.6 —Develop and implement a multi-hazard public awareness program.								
Status Description:								
O		Ongoing	Multi-hazard	6, 8	Village	Low	Grant, General Revenue	Short-term
Action G4.7 —Develop plan to protect infrastructure and critical facilities from natural hazards.								
Status Description:New electrical distribution ringing around plaza								
C		Ongoing	Multi-hazard	1, 2, 5	Village	Low	Grant	Short-term
Action G4.8 —Complete a stormwater drainage study for known problem areas in the community.								
Status Description:Robinson Engineering completed study								
C		Ongoing	Flood, Severe Weather	3, 13	Village	Medium	Grant	Short-term
Action G4.9 —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:								
-	-	Completed	All	7, 13	Village	High	FEMA Hazard Mitigation Grants	Completed
Action G4.10 —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:								
O		Ongoing	Flooding	4, 6, 9	Village	Low	General Fund	Short-term and ongoing
Action G4.11 —Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.								

Status Description: Zoning Board is updating zoning code								
O		Ongoing	All	3, 4, 6, 10, 13	Village	Low	General Fund	Short-term
Action G4.12 —Consider the development and implementation of a Capital Improvements Program (CIP) to increase the Village’s regulatory, financial and technical capability to implement mitigation actions.								
Status Description: Was in progress but suspended due to Covid. Will start again in 2023								
X		Ongoing	All	1, 2, 7	Village	High	CIP component of general fund (if implemented)	Long-term
Action G4.13 —Continue to support the countywide actions identified in this plan.								
Status Description:								
O		Ongoing	All	All	Village	Low	General Fund	Short- and long-term
Action G4.14 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description: Currently assessing								
O		Ongoing	All	3, 4, 6	DHSEM, Village	Low	General Fund	Short-term
Action G4.15 —Completion of acquisition of homes in the flood plain on park drive, construction of flood wall, bridge replacement on Main Street.								
Status Description: Homes have been purchased and demolished. Engineering of flood wall is 80% complete, roadway bridge pushed back by IDOT until March 2022								
O		New	Flood	7, 9	Village of Glenwood	\$4,300,000; High	FEMA	2021
Action G4.16 —Levee along Thorn Creek at Arquilla Park.								
Status Description:								
O		New	Flood	9	MWRD	\$5,770,000	MWRD	TBD
Action G4.17 —Flood mitigation and engineering for south end of plaza and 7.2 acres that will address flooding in Estates Subdivision.								
Status Description:								
N			Flood, Dam/Levee Failure, Snow	1, 2, 4	Village of Glenwood	\$1,650,000	TIF	11/2022
Action G4.18 —Upgrade outflow to creek in Forest Preserve from Brookwood Point Subdivision.								
Status Description:								
N			Flood, Dam/Levee Failure, Snow	1, 2, 4	Village of Glenwood	\$760,000	Village water/sewer surplus funds with MWRD grant	5/2022
(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 G4.17

Mitigation Action	Flood mitigation and engineering for south end of plaza and 7.2 acres that will address flooding in Estates Subdivision.
Year Initiated	2021
Applicable Jurisdiction	Village of Glenwood
Lead Agency/Organization	Village of Glenwood
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	TIF
Estimated Cost	\$1.65 million
Benefits (loss avoided)	Reduce overland flooding that affect single family homes.
Projected Completion Date	11/2022
Priority and Level of Importance (Low, Medium, High)	High 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)	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:	7.2 acre parcel slated for commercial development in 2023 will have its rain water off site storage piped down Gay Court and will replace 16" pipe with 5'(60") culvert pipe which will enhance outflow from Estates Subdivision that flows in this pipe.
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

Mitigated Hazards

	All Hazards
X	Dam/Levee Failure
	Drought
	Earthquake
X	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
X	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 G4.18

Mitigation Action	Upgrade outflow to creek in Forest Preserve from Brookwood Point Subdivision.
Year Initiated	2021
Applicable Jurisdiction	Village of Glenwood
Lead Agency/Organization	Village of Glenwood
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	Village water/sewer surplus funds with MWRD grant
Estimated Cost	\$760,000
Benefits (loss avoided)	Reduce overland flooding that affect single family homes.
Projected Completion Date	5/2022
Priority and Level of Importance (Low, Medium, High)	High 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:	This repair of the discharge storm sewer line along with the repair of the outflow structure in the Forest Preserve to Deer Creek will improve drainage from Brookwood Point Subdivision. We will also embark on a plan to televise and clean all interior storm lines in back yard.
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

Mitigated Hazards

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