

6 Flossmoor 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.

Dam/Levee Failure: The Village does not consider Dam/Levee Failure to be a hazard that would likely occur.

Flood: Within the Village, the Flossmoor Rd. viaduct at CN/Metra RR, Brookwood Bridge and Butterfield Cr. Culvert, Hagen Lane Rear Yards, Berry Lane between Sunset and Bob-o-Link Rd., Dartmouth Bike Bridge and Creek Stabilization, are all flood-prone areas.

Severe Weather: The Village is vulnerable to potential power outages at critical facilities in the event of high winds, including the following facilities: DPWSC, Vollmer Res. (water), Meinheit BS (water), Kedzie BS (water), Lift stations (Butterfield, Dartmouth, Sylvan, Heather, Commons). Back-up power is needed to mitigate the impact of this natural hazard.

Severe Winter Weather: Similar to the outcomes of high winds, the Village's critical facilities are subject to power outages as a result of ice storms. Back-up power is needed to prevent this impact.

Tornado: Similar to the impacts of high winds and ice storms, the Village's critical facilities are subject to power outages in the event of a tornado. Back-up power is needed to maintain the continuity of the Village's critical facilities during this hazard.

Earthquake: Although earthquakes or their effects are not commonly felt in Flossmoor, earthquakes have happened on several occasions in Illinois over the last few decades. Flossmoor continues to prepare and mitigate against this hazard.

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: On August 24, 2021, the Village of Flossmoor experienced a severe thunderstorm that brought straight line winds that caused severe tree damage to the middle and east side of the Village. This storm resulted in power outages in the area and a significant amount of tree debris that was cleared by Public Works over a two week period.

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 F1.1 —Replace the Brookwood Road bridge and culvert.								
Status Description:								
O	Ongoing	Ongoing	Flood, Severe Weather	3, 4, 6, 9, 11, 12	Public Works	\$1.3 million; High	Village of Flossmoor, Grants	Short-term
Action F1.2 —Flossmoor Road Viaduct Drainage Improvements Project								
Status Description:								
O	Ongoing	Ongoing	Flood, Severe Weather	3, 4, 6, 8, 9, 12, 13	Public Works	\$6.5 million; High	GO Bond & Grants	Short-term
Action F1.3 —Update Emergency Operations Plan.								
Status Description:								
O	Ongoing	Ongoing	All	1, 2, 4, 5, 8, 12	Fire	Low	General Fund	Short-term
Action F1.4 —Butterfield Creek alternate flood wall project (BTCR-G3).								
Status Description:								
-	Removed	Removed	Flood, Severe Weather	3, 4, 6, 7, 8, 9, 11, 12, 13	Public Works	Low	MWRD	Removed
Action F1.5 —Butterfield Road flood control project/creek widening.								
Status Description:								
X	Long-term	Ongoing	Flood, Severe Weather	3, 4, 6, 7, 8, 9, 11, 12, 13	Public Works	High	Unknown / Grants	Long-term
Action F1.6 —Dartmouth bike bridge/creek bank stabilization.								
Status Description:								
O	Short-term	Ongoing	Flood, Severe Weather	3, 6, 7, 9, 12, 13	Public Works	\$500,000; Low	Village of Flossmoor, Grants	Short-term
Action F1.7 —Cherry Creek East Branch Flood Control Project.								
Status Description:								
-	Completed	Completed	Flood, Severe Weather	3, 4, 6, 7, 8, 9, 11, 12, 13	Public Works	\$3,304,500; High	MWRD	Completed
Action F1.8 —Early warning storm siren.								
Status Description:								
O	Short-term	Ongoing	All	5, 6, 8	Fire	Medium	Grants	Long-term
Action F1.9 —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:								
-	Removed	Removed	All	7, 13	Village of Flossmoor	High	FEMA Hazard Mitigation Grants	Removed
Action F1.10 —Continue to support the countywide actions identified in this plan.								
Status Description:								
O	Ongoing	Ongoing	All	All	Village of Flossmoor	Low	General Fund	Short- and Long-term
Action F1.11 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description:								

O	Ongoing	Ongoing	All	3, 4, 6	DHSEM, Village of Flossmoor	Low	General Fund	Short-term
Action F1.12 —Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.								
Status Description:								
O	Ongoing	Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Flossmoor	Low	General Fund	Long-term
Action F1.13 —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:								
O	Ongoing	Ongoing	Flooding	4, 6, 9	Village of Flossmoor	Low	General Fund	Short-term and Ongoing
Action F1.14 —Where feasible, implement a program to record high water marks following high-water events.								
Status Description:								
X	Ongoing	Ongoing	Flooding, Severe Weather	3, 6, 9	Village of Flossmoor	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
Action F1.15 —Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.								
Status Description:								
O	Ongoing	Ongoing	All	3, 4, 6, 10, 13	Public Works	Low	General Fund	Short-term
Action F1.16 —Evans Rd. & Douglas Ave. Drainage Improvements Project								
Status Description:								
O	Construction in 2021	New	Flood	9	Flossmoor	\$904,000; High	MWRD, Village of Flossmoor	2021
Action F1.17 —8 Back-Up Generators at Critical Facilities.								
Status Description:								
O	Short-term	New	Earthquake, Flood, Extreme Heat, Lightning, Hail, High Wind, Snow, Blizzard, Extreme Cold, Ice Storms, Tornado	1, 2	Flossmoor	2 generators cost \$100,000 each and 6 cost \$60,000 each; High	Flossmoor & Grants	TBD
Action F1.18 —Cherry Creek East Branch Flood Control.								
Status Description:								
-	duplicate of F1.7, remove	New	Flood	9	MWRD	\$3,304,500	Unknown	Unknown
Action F1.19 —Berry Lane Drainage Improvements Project								
Status Description:								
O	New	N/A	Flood	1, 2	Village of Flossmoor	\$2,000,000	ACOE, IEPA, MWRD, Village of Flossmoor	2022
Action F1.20 —Floodprone Properties Acquisition - 1648 Western Ave								
Status Description:								
N	-	-	Flood	1, 2, 5	Village of Flossmoor	\$400,000	FEMA, MWRD, Local Funds	2023
(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.

Action F1.2 - Flossmoor Road Viaduct Drainage Improvements Project - In November of 2020, voters approved a General Obligation Bond referendum in the amount of \$10M. Approximately half of this bond will be used towards the Flossmoor Road Viaduct Drainage Improvements Project.

Action F1.16 - Evans Rd. & Douglas Ave. Drainage Improvements Project - The Village was approved for participation in the MWRD's Stormwater Partnership Program for the Evans Rd. & Douglas Ave. Drainage Improvements Project. This program will provide funding for 95.2% of the construction costs for the

project up to a not-to-exceed amount of \$754,000.

Action F1.19 - Berry Lane Drainage Improvements Project - The Village entered into a project agreement with the Army Corps of Engineers Section 219 Grant Program (\$1M) for the construction of the Berry Lane Drainage Improvements Project. The Village also received grants from the MWRD Green Infrastructure Program and the IEPA Green Infrastructure Grant Opportunities Program (GIGO) for the green infrastructure (permeable street pavers and storage) portion of the project on Berry Lane.

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 F1.20

Mitigation Action	Floodprone Properties Acquisition - 1648 Western Ave
Year Initiated	2021
Applicable Jurisdiction	Village of Flossmoor
Lead Agency/Organization	Village of Flossmoor
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. • Develop, promote, and integrate mitigation action plans.
Potential Funding Source	FEMA, MWRD, Local Funds
Estimated Cost	\$400,000
Benefits (loss avoided)	Remove structure from regulatory floodway, reduce risk of life safety due to flood hazard
Projected Completion Date	2023
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)	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 and Project Description:	Acquire property at 1648 Western Ave and demolition structures and restore site to open green space in regulatory floodway. Property would be deed restricted to prohibit any future development of site and would allow only allowable uses in the floodway.
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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