

6 Elk Grove 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: Due to Busse Woods water bodies and Busse Dam this could be a risk (Dam/Levee Failure). Cook County has addressed this risk with the completion of an improvement project on the Dam/Levee; however, maintenance is essential to ensure no dam or levee failure occurs.

Flood: Flooding continues to be an issue. This has been addressed over the years by the creation of additional retention ponds, catch basins and overflow areas near any new construction. Overflow of sewers and the extended downpour of rain still creates flooding. Specific: Elk Grove Area. Blvd and Rev. Morrison - due to a large amount of rain.

Extreme Heat: We are concerned that loss of power, as a result of extreme heat in our Village, will result in the loss of power, affecting senior living cities throughout the area.

Lightning: We have lightning detection devices throughout the community. Our biggest concern is fires started by lightning and vulnerability of the community residing in mobile homes.

Hail: We are less concerned about hail, insofar as it occurs independently from a snowstorm.

Fog: Our Village is not concerned about experiencing fog.

High Winds: We maintain slight concern about the possibility of and risks of high winds.

Earthquake: Earthquakes are a challenge to mitigate; however, the impact earthquakes could have one important infrastructure factor into dam and levee mitigation tactics.

Snow: Prolonged, heavy snowstorms affect access for emergency vehicles and transports to Alexian Brothers Medical Center. In addition, these snowstorms lessen the ability for residents, as well as snow plow and emergency response vehicles to move throughout the Village.

Blizzards: Similar to snowstorms, blizzards affect access for emergency vehicles and transports to Alexian Brothers Medical Center. In addition, these snowstorms lessen the ability for residents, as well as snow plow and emergency response vehicles to move throughout the Village.

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								
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 E4.1 —Continue implementation of ongoing modifications to Busse Dam.								
Status Description:								
C		Ongoing	Flood, Dam Failure, Earthquake	1, 2, 9	Village	\$3,000,000; Low	Water/Sewer	Ongoing
Action E4.2 —Continue ongoing maintenance of water supply wells within village.								
Status Description:								
O		Ongoing	All	1, 2	Village	Low	Water/Sewer	Ongoing
Action E4.3 —Identify and establish backup water supply connections.								
Status Description:								
O		Ongoing	All	1, 2, 7	Village, Joint Action Water Agency	\$10,000,000; High	Water/Sewer	Long-term
Action E4.4 —Replace Clearmont Bridge over Salt Creek (multi-use vehicles and pedestrian).								
Status Description:								
O		Ongoing	Earthquake, Flood, Dam Failure	1, 2, 7	Village	\$5,000,000; High	Capital Projects, FEMA Grants	Long-term
Action E4.5 —Continue ongoing maintenance of drainage facilities within the village annually.								
Status Description:								
O		Ongoing	Flood, Dam Failure, Severe Weather	1, 2	Village	Low	Water/Sewer	Ongoing
Action E4.6 —Mitigate increase in storm water run-off to reduce flooding in Business Park.								
Status Description:								
O		Ongoing	Flood, Severe Weather	1, 2, 7	Village	\$27,000,000; High	Water/Sewer, FEMA Grants	Ongoing
Action E4.7 —Continue Salt Creek stream bank stabilization project.								
Status Description:								
O		Ongoing	Flood, Dam Failure, Severe Weather	1, 2, 7	Village, MWRD	Medium	Water/Sewer, Capital Projects	Ongoing
Action E4.8 —Establish a Calcium chloride distribution system to treat roads during severe winter weather events.								
Status Description:								
C		Ongoing	Severe Weather, Severe Winter Weather	1, 5	Village	High	Capital Projects, General Fund	Long-term

Action E4.9 —Continue implementation of culvert replacement program.								
Status Description:								
O		Ongoing	Flood, Dam Failure, Severe Weather	1, 2, 7	Village, MWRD	Medium	Water/Sewer, Capital Projects	Ongoing
Action E4.10 —Continue ongoing education and training of Citizen Emergency Response Teams.								
Status Description:								
O		Ongoing	All	1, 5, 8	Village	Low	Emergency Management Fund	Ongoing
Action E4.11 —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	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action E4.12 —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 E4.13 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description:								
O		Ongoing	All	3, 4, 6	DHSEM, Village	Low	General Fund	Short-term
Action E4.14 —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 E4.15 —Where feasible, implement a program to record high water marks following high-water events.								
Status Description:								
R		Ongoing	Flooding, Severe Weather	3, 6, 9	Village	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
Action E4.16 —Integrate the 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	Community Development	Low	General Fund	Short-term
Action E4.17 —Implement Louis Avenue Culvert Improvement.								
Status Description:								
C		New	Dam/Levee Failure, Flood	9	Public Works Elk Grove Village	\$3,004,000; Low	Local Funds - Capital Improvement	December 2019
Action E4.18 —Integrate mitigation plan with existing plans.								
Status Description:								
O		New	All	4	Elk Grove Village Fire Department	TBD	TBD	TBD
Action E4.19 —Implement Culvert Improvements in Elk Grove Village.								
Status Description:								
O		New	Flood	9	MWRD	\$2,215,019	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.

During the construction of two new Fire Stations, storm shelters were constructed in each to bring compliance with ICC 500.

During new construction and extensive remodeling projects of Village facilities, Emergency Backup Power Generation Systems were installed for critical loads and systems.

Several undersized corrugated metal pipe culverts were replaced with hydraulically calculated, appropriately sized, concrete box culverts.

New Village facility construction projects included on-site storm water detention to reduce the burden on existing storm water conveyance systems.

Improvements to existing storm water detention and pumping facilities have alleviated flooding on Village and State roadways.

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 will update and adopt the 2024 International Code Series, once published, to continue to mitigate hazards and risks.

Consider upgrades to the Salt Creek culvert under Devon Avenue to diminish and mitigate potential flood events in residential neighborhoods and roadways.