

6 LaGrange Park 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 experiences two (2) types of floods. Crucially, since the Village's sewer system is 90 percent combined heavy rainfall/short duration causes our system to get surcharged and there is also not enough capacity to move the water. This impacts the low lying Homestead/Monroe area the most. In the case of flooding along Salt Creek, many communities upstream have their CSOS and stormwater outfalls into Salt Creek. The issue here is that, when the level is high, members of the community worry about homes on Edgewood and Brainard Avenues.

Extreme Heat: When there is extreme heat, the Village's concern is with their older adult demographic (65 or older) which is 21 percent of the Village's total population. If there is extreme heat, the community is concerned about adults/older adults who live alone, especially where there is power loss (no AC).

Lightning: The Village has low to moderate concern for lightning damage to emergency communications and police communications, which has happened before. The Village also has concerns about lightning causing tree limb damage or structure fires, which has also happened. In 2010, lightning apparently struck a pole at a bank on Burlington Avenue. This pole then fell onto a chimney and then the chimney fell over, damaging a roof. Several pieces of electronic equipment were no longer working after the strike, including credit card readers.

Hail: Though the Village isn't particularly concerned about the impacts of hail, the hazard could cause enough property damage within the area to destroy communication equipment.

Fog: Previously, the Village has experienced fog that has obscured citizens' line of sight, sometimes causing traffic accidents.

High Winds: The Village has frequently experienced tree limb damage, power loss, and damage to communications infrastructure (antenna) as a result of high winds. In 2006, a large tree was blown down blocking part of Ashland Road.

Earthquake: This hazard would most likely be related to the quarries blasting in Countryside/McCook, which has previously occurred in the Village. This natural hazard requires substantial emergency communications. In addition, the damage would impact pipes/plumbing in the homes/structure and other structural issues.

Drought: Droughts would jeopardize the Village's water supply - though this is a natural hazard the Village hasn't experienced. Another risk this hazard poses is a potential forest fire hazard because the community is surrounded by Bemis Woods North, LaGrange Park Woods, Brezina Woods, and 26th Street Woods. (Cook County Forest Preserves).

Snow: Extra volume of emergency response calls from motor vehicle accidents. Heavy wet snow can cause tree limbs to fall which could cause power outages and loss of heat.

Blizzards: Previously, first responders supporting the Village have been burdened by blizzards, inhibiting their ability to aid people on structures in need. In addition, the motoring public becomes stranded, leaving citizens unable to work, or get necessary supplies.

Extreme Cold: Similar to the impacts of extreme heat, the Village's concern is with their older adult demographic (65 or older) which is 21 percent of the Village's total population. If there is extreme cold, the community is concerned about adults/older adults who live alone, especially where there is power loss (no heating).

Ice Storms: The Village has experienced power outages from ice buildup on power lines and loss of heat, increasing traffic accidents.

Tornado: As a result of tornadoes, the Village has experienced widespread power outages, structural damage, impassable roadways due to debris, potential catastrophic injuries, and delay in first responder response times.

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:

June 26, 2021 - Hi intensity rainfall created a flooding event that surcharged existing storm sewers in some areas and created impassable streets and intersections.

July 29, 2021 - High intensity thunderstorm and wind in northern Illinois. Local damage included downed trees, power lines and power poles.

2020 Events:

June 9, 2020 - Storm with high winds brought down multiple power lines.

October 22, 2020 - Storm with high winds brought down tree and damaged at least one home.

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 L2.1 —Install New Emergency Generator for Village Hall Complex, including Communications Center, and Fire Station 1.								
Status Description:								
-	-	Completed	All	1, 2, 5	Police	\$200,000; High	FEMA Grant, General Revenue	Completed
Action L2.2 —Implement Downspout Disconnect Program to remove roof rainwater from Village Combined Sewer System.								
Status Description:								
O	O	Ongoing	Flooding, Severe Weather	3, 9, 11, 13	Building	\$440,000; High	IEPA Illinois Green Infrastructure Grant Program	Main Program Complete, following up on non-compliance
Action L2.3 —Maintain Code RED System, including encouraging residents to register and update information, and ensure Communications Center personnel are trained in using it.								
Status Description:								
-	C	Ongoing	All	1, 5, 8, 12	Police	\$4,000; Low	ETSB, General Fund	Short-term Annually Ongoing
Action L2.4 —Update the Building and Fire Codes by adopting newer model codes and writing amendments to such codes that correlate to the sections in the model codes.								
Status Description:								
-	C	Ongoing	All	3, 4, 6, 10	Building, Fire	\$3,000; Low	General Fund	Short-term

Action L2.5 —Update the Emergency Operations Center by purchasing additional equipment such as disaster boxes with supplies, and providing training and information on set-up and operation.								
Status Description:								
O	O	Ongoing	All	1, 5	Emergency Management Agency (EMA)	\$4,000; Low	General Fund	Short-term Ongoing
Action L2.6 —Encourage the use of Best Management Practices such as promoting the use of rain gardens, rain barrels, and using permeable surfaces.								
Status Description:								
O	O	Ongoing	Flooding, Severe Weather	3, 4, 13	Building, PW	\$100; Low	General Fund	Short-term Ongoing
Action L2.7 —Promote and possibly provide incentives for the use of plumbing solutions such as installing overhead plumbing and backflow prevention devices.								
Status Description:								
O	O	Ongoing	Flooding, Severe Weather	4, 9, 11, 13	Building, PW	Low to High	Enterprise Funds	Short-term Ongoing
Action L2.8 —Complete Sewer Separation Projects in targeted areas that are more prone to flooding caused by sewer surcharge.								
Status Description:								
O	O	Ongoing	Flooding	3, 9	Public Works	4-6 Million per Area; High	Enterprise Funds, Service Areas	Long-term
Action L2.9 —Complete and Distribute Customized Emergency Preparedness Guide specifically for Village residents to include actions for all-hazards, and including shelter and evacuation instructions.								
Status Description:								
X	X	Ongoing	All	5, 6, 8, 12	EMA	Low	General Fund	Short-term Bi-Annually
Action L2.10 —Conduct Table-Top Exercise to simulate disaster response and test capabilities of Emergency Operations Center.								
Status Description:								
-	-	Completed	All	1, 5	EMA	Low	General Fund	Completed
Action L2.11 —Install New Emergency Generator at Fire Station 2.								
Status Description:								
-	-	Completed	All	1, 2, 5	Fire	Medium	General Fund	Completed
Action L2.12 —Pre-position pallets of sandbags and additional salt at Public Works Facility for immediate distribution to residents.								
Status Description:								
O	O	Ongoing	Flooding, severe winter weather	1, 2, 8	Public Works	Low	General Fund	Short-term Ongoing
Action L2.13 —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:								
X	X	Ongoing	All	7, 13	Building	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action L2.14 —Continue to support the countywide actions identified in this plan.								
Status Description:								
O	O	Ongoing	All	All	La Grange Park	Low	General Fund	Short- and long-term
Action L2.15 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description:								
O	X	Ongoing	All	3, 4, 6	DHSEM, La Grange Park	Low	General Revenue	Short-term
Action L2.16 —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	O	Ongoing	Flooding	4, 6, 9	Admin., Building	Low	General Fund	Short-term and Ongoing
Action L2.17 —Consider participation in incentive-based programs such as the Community Rating System, and StormReady.								
Status Description:								
O	O	Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of La Grange Park	Low	General Fund	Long-term
Action L2.18 —Produce and Distribute a Resource Guide for Residents on Protection from Hazards and Evacuation								
Status Description:								
O	O	New	All	6, 12, 13	Village of La Grange Park EMA	\$10,000; Medium	Local Village Funds, Grants	2021
Action L2.19 —Increased radio interoperability through the County's StarCom Radio System - in cooperation with two other towns, LaGrange and Western Springs.								
Status Description:								
C	O	New	All	5, 6, 8	Village of LaGrange Park	\$1,000,000; High	Grants and Consolidated Dispatch (LTACC) Capital Budget	1.5 years
Action L2.20 —Implement Rave Alert/Smart 911								
Status Description:								
	N	-	All	2, 3, 6	Lyons Township Area Communications Center	\$11,000	Local Budgets, Joint ETSB	2020
Action L2.21 —Permeable Pavement Intersections								
Status Description:								
	N	-	Flood	1, 2	Public Works Department	\$625,000	Metropolitan Water Reclamation District	2022
Action L2.22 —Central Area Sewer Mitigation Project								
Status Description:								
	N	-	Flood	1, 2, 3	La Grange Park Public Works	\$10,225,000.00	Local Funds, Grants (Rebuild IL Program), ARPA	-
(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: As noted, for most of our actions work has been completed or ongoing. For Action L2.8, a specific project has now been identified and is being heavily pursued by our Village Administration, Village Public Works Director and Village Officials. That will be the Central Area Storm Sewer Project, which will separate a great amount of storm water from one of our most flood prone areas in our Village, which is in a combined sewer area. This project has been discussed for many years and substantial amount of planning and action moved forward in 2020. Another new project has been added, that of construction of three permeable pavement intersections, which moved quickly and is scheduled to be completed this spring.

Future Needs: As probably with most mitigation efforts, our biggest need is funding. With flooding one of most frequent events, having a mostly combined sewer system is extremely challenging.

6.1 Action L2.20

Mitigation Action	Implement Rave Alert/Smart 911
Year Initiated	2020
Applicable Jurisdiction	Village of La Grange Park
Lead Agency/Organization	Lyons Township Area Communications Center
Supporting Agencies/Organizations	La Grange Park Fire, Police; La Grange Police, Fire; Western Springs Police, Fire; Countryside Police
Applicable Goal	<ul style="list-style-type: none"> • Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. • Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events. • Promote public understanding of and support for hazard mitigation.
Potential Funding Source	Local Budgets, Joint ETSB
Estimated Cost	\$11,000
Benefits (loss avoided)	Provides the public with multiple platforms to receive emergency messages and other critical notifications from public agencies.
Projected Completion Date	2020
Priority and Level of Importance (Low, Medium, High)	Medium 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)	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:	Our area Consolidate Communications Center jointly implemented RAVE Alert/SMART 911 system with member agencies. This replaced our CODE RED system. Public Education was pushed out for sign-up to the new system, and in some case residents were personally assisted with signing up. Outreach continues regularly through email, website postings, etc.
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020	New	
2021		
2022		
2023		

Mitigated Hazards

X	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
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

6.2 Action L2.21

Mitigation Action	Permeable Pavement Intersections
Year Initiated	2020
Applicable Jurisdiction	Village of La Grange Park
Lead Agency/Organization	Public Works Department
Supporting Agencies/Organizations	Village staff, MWRD, Hancock Engineering
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.
Potential Funding Source	Metropolitan Water Reclamation District
Estimated Cost	\$625,000
Benefits (loss avoided)	This will reduce flooding in specific targeted areas of our Village where high frequency of such has occurred. This should reduce potential for damage to adjacent properties and structures, and create safer driving and walking conditions in area.
Projected Completion Date	2022
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)	Medium—The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
Actual Completion Date	-

Recommended Mitigation Action/Implementation Plan and Project Description

Action/Implementation Plan and Project Description:	Three permeable pavement intersections will be constructed in the Village where the lowest point in our combined sewer system is located, and create overland flooding, encroaching onto neighboring properties and structures. The intersections flood frequently and also create dangerous situations for both vehicle traffic and pedestrian traffic. The Village is partnering in this project with the Metropolitan Water Reclamation District of Greater Chicago through their Green Infrastructure Partnership Opportunity Program and has entered into an IGA with them.
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020	New	
2021		
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 L2.22

Mitigation Action	Central Area Sewer Mitigation Project
Year Initiated	2020
Applicable Jurisdiction	Village of La Grange Park
Lead Agency/Organization	La Grange Park Public Works
Supporting Agencies/Organizations	MWRDGC, IEPA, IDOT
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. • Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.
Potential Funding Source	Local Funds, Grants (Rebuild IL Program), ARPA
Estimated Cost	\$10,225,000.00
Benefits (loss avoided)	This project is intended to provide flooding relief for multiple properties and structures experiencing flooding from surcharged combined sewers and overland water travel. This will mitigate many dangerous flooded streets and intersections.
Projected Completion Date	-
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:	<p>The proposed Central Area Sewer Separation Program is a critically needed project to provide flood relief to residents in LaGrange Park. The proposed storm sewer will provide localized flooding relief to the area of the Village bounded by 31st Street on the north, LaGrange Road on the west, Homestead Road on the south and the IHB Railroad on the east. This area has experienced increased frequency of flooding and damage in recent years. The storm on May 17, 2020 had the greatest extent of flooding and property damage ever recorded for this area. The flooding resulted in damage to structures due to overland runoff and basement back-up. The topography of the area slopes from west to east from Language Road with the IHB Railroad embankment being a barrier on the east. The area is slightly pitched from the north and south to a low area along Monroe Avenue. There are several localized low areas within the broader area, namely the intersections of Barnsdale Road and Jackson Avenues, and on Monroe between Forest Road and Barnsdale Road.</p> <p>The existing sewer network consists of combination sewers that are inadequate to convey both the sanitary and storm water flows during heavy rain events. When the sewers surcharge into basements or from open catch basin lids in the street, a combination of storm water and sanitary sewage is present creating a great public health concern. This project is of vital importance to the administration, local schools, businesses, and residents to help alleviate and reduce the frequency and magnitude of those types of events.</p>
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Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020	New	
2021		
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