

6 Riverside 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 of Riverside has experienced failure at the Groveland Levee (repetitive breaches of the levee), imperiling many residential and multi-family structures. The river water flows around both side of this levee.

Flood: The Village has experienced flooding at the Des Plaines River. This repeated flooding impacts residential and multi-family structures, as well as 1st Avenue and Riverside Brookfield High School. In 2008, heavy rainfall caused major flooding of the Des Plaines River at Des Plaines and Riverside. The river crested at the second highest level on record at both locations. The crest was 10.00 feet at Des Plaines and 9.86 feet at Riverside.

Extreme Heat: The Village's elderly and disabled population are particularly susceptible to the impacts of extreme heat.

Lightning: Previously, severe lightning has caused the Village to be subject to loss of power and telecommunications.

Hail: The Village has experienced property damage from hail.

High Winds: Similar to lightning, the Village is subject to loss of power and telecommunications during high wind events. In 2006, A 500 foot to 1,000 foot wide path of tree damage was reported through much of Riverside. Power lines were also blown down. In 2008, Several trees and numerous tree limbs were blown down in Riverside. Part of a tree fell onto a house near Herrick Road. In 2013, winds were estimated to near 70 mph caused extensive tree damage in the communities of Western Springs, La Grange, and Riverside. Extensive tree damage was reported along the railroad. A six inch diameter tree was blown down at 55th Street and La Grange Road. A six inch diameter tree limb was blown down on the 2300 block of 1st Avenue. Multiple lanes were blocked.

Earthquake: The Village is vulnerable to infrastructure and building damage as a result of earthquakes.

Snow: Previously, as a result of severe snow, the Village has lost power and telecommunications and experienced limited access to roadways.

Blizzards: Through the impacts of blizzards, the Village has experienced loss of power and telecommunications, as well as access to roadways.

Extreme Cold: The community has been subject to water main breaks during extreme cold events.

Ice Storms: The Village has experienced loss of power and telecommunications and property damage as a result of ice storms.

Tornado: Based on past damages, the village has experienced loss of power and telecommunications and property damage from wind events.

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.

The Village of Riverside continues to experience ongoing flooding issue in certain pockets of the Village. We are continuing to work with our partners to fund and mitigate these problem areas.

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

The Village of Riverside is continually experiencing radio issues and interoperability shortcomings. It is a goal of the Village to explore new technology to support a radio network with back-up frequencies and interoperability capabilities.

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 R5.1 —Test reverse 911 emergency notification system Everbridge								
Status Description:								
Ongoing	Ongoing	Ongoing	All Hazards	1, 5	Fire Dept.	Medium	General revenue	Short-term
Action R5.2 —Implement FEMA CRS evaluation								
Status Description:								
Ongoing	Ongoing	Ongoing	Flood	3, 4, 5, 6, 7, 9, 10, 11, 13	Public Works	Low	General revenue	Short-term
Action R5.3 —Join NOAA StormReady Program								
Status Description:								
Joined Program	Ongoing	Ongoing	Severe weather, Tornado	3, 4, 5, 6, 7, 9, 10, 11, 13	Fire Dept.	Low	Annual budget	Short-term
Action R5.4 —Olmstead watershed plan (Improvement #7)								
Status Description:								
Ongoing	Ongoing	Ongoing	Flood	1, 6, 9	Public Works	\$960,000; Medium	Grant/sewer fees	Short-term
Action R5.5 —Olmstead sewer separation plan (Improvement #8)								
Status Description:								
Ongoing	Ongoing	Ongoing	Flood	1, 6, 9	Public Works	\$1.6 million; Medium	Grant/sewer fees	Short-term
Action R5.6 —Longcommon sewer separation & storage vault plan (Improvement #4)								
Status Description:								
Ongoing	Ongoing	Ongoing	Flood	1, 6, 9	Public Works	\$2.8 million; Medium	Grant/sewer fees	Short-term
Action R5.7 —Nuttall sewer separation plan (Improvement #5)								
Status Description:								
Ongoing	Ongoing	Ongoing	Flood	1, 6, 9	Public Works	\$570,000; Medium	Grant/sewer fees	Short-term
Action R5.8 —Scottswood sewer separation plan (Improvement #2)								
Status Description:								
Completed	Completed	Completed	Flood	1, 6, 9	Public Works	\$1.56 million; Medium	Grant/sewer fees	Completed
Action R5.9 —Railroad watershed proposed outlet (Improvement #1)								
Status Description:								

Ongoing	Ongoing	Ongoing	Flood	1, 6, 9	Public Works	\$64,000; Medium	Grant/annual budget	Short-term
Action R5.10 —Maplewood watershed proposed relief (Improvement #3)								
Status Description:								
Ongoing	Ongoing	Ongoing	Flood	1, 6, 9	Public Works	\$150,000; High	Grant/sewer fees	Long-term
Action R5.11 —Rear yard storm sewer connections (Improvement # 6)								
Status Description:								
Ongoing	Ongoing	Ongoing	Flood	1, 6, 9	Public Works	\$75,000 per city block; High	Grant/sewer fees	Long-term
Action R5.12 —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:								
Ongoing	Ongoing	Ongoing	All	7, 13	Village	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action R5.13 —Continue to support the countywide actions identified in this plan.								
Status Description:								
Ongoing	Ongoing	Ongoing	All	All	Village	Low	General Fund	Short- and long-term
Action R5.14 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description:								
Ongoing	Ongoing	Ongoing	All	3,4,6	DHSEM, Village	Low	General Fund	Short-term
Action R5.15 —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:								
Ongoing	Ongoing	Ongoing	Flooding	4, 6, 9	Public Works	Low	General Fund	Short-term and ongoing
Action R5.16 —Where feasible, implement a program to record high water marks following high-water events.								
Status Description:								
Ongoing	Ongoing	Ongoing	Flooding, Severe Weather	3, 6, 9	Village	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
Action R5.17 —Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.								
Status Description:								
Ongoing	Ongoing	Ongoing	All	3, 4, 6, 10, 13	Village	Low	General Fund	Short-term
Action R5.18 —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:								
Ongoing	Ongoing	Ongoing	All	1, 2, 7	Public Works	High	CIP component of general fund (if implemented)	Long-term
Action R5.19 —Install the Groveland flood wall on West Ave and Park Place								
Status Description:								
Ongoing	Ongoing	New	Flood	2, 7	Village of Riverside	Over \$7,000,000	Funded through Army Corp. and MWRD	2022
Action R5.20 —Install the Railroad Drainage Outlet								
Status Description:								
Ongoing	Ongoing	New	Flood	2, 3, 13	MWRD	\$90,000	Local funds; MWRD	Unknown
Action R5.21 —Implement the Groveland Avenue Levee Improvements								
Status Description:								

Ongoing	Ongoing	New	Dam/Levee Failure, Flood	2, 3, 7	MWRD	\$7,200,000	Local funds; MWRD	Unknown
Action R5.22 —Implement the Green Infrastructure Project								
Status Description:								
Ongoing	Ongoing	New	Flood	2, 3, 13	MWRD	Unknown	Local funds; MWRD	Unknown
(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.