

# 5 Cook County - Countywide and Unincorporated 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.

## 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: Tornado occurred on May 15, 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: UNINCORPORATED HAZARD COOK COUNTY MITIGATION ACTION PLAN MATRIX**

Completion status legend:								
2021 Status	2020 Status	2019 Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
<b>Action CCU.1—Enhance/update the Cook County post-disaster action plans.</b>								
<b>Status Description:</b>								

-	Completed	Completed	All	2, 3, 4, 5, 7, 8, 9, 10, 11	EMRS, Public Safety Consortium, DPD, OCPP, MWRD	Medium	General funds, U.S. DHS FEMA Grants	Short-term; Ongoing
<b>Action CCU.2</b> —Review the existing debris management plan and update as necessary.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	All	8, 13	DOTH, EMRS	Medium	General funds, U.S. DHS FEMA Grants	Short-term; Ongoing
<b>Action CCU.3</b> —Develop a Cook County Continuity of Operations Plan (COOP)/ Continuity of Government (COG) and Recovery plan.								
<b>Status Description:</b>								
Completed	Completed	Ongoing	All	1, 2, 5, 8	EMRS, BOT, Public Safety Consortium	Medium	General Funds, U.S. DHS FEMA Grants	Short-term; Ongoing
<b>Action CCU.4</b> —Review current building codes, ordinances, and zoning guidelines and update as necessary.								
<b>Status Description:</b>								
Ongoing		Ongoing	All	1, 2, 3,7,9,19	DBZ, DOTH, MWRD	Low	General Funds	Long-term
<b>Action CCU.5</b> —Continue to support the training and organization of a Cook County Incident Management Team.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	All	1, 8	EMRS, Public Safety Consortium	Low	General Funds, U.S. DHS FEMA Grants	Short-term; Ongoing
<b>Action CCU.6</b> —Complete the Cook County Mobile Trauma Medical Unit (MTMU) Project.								
<b>Status Description:</b>								
-	-	Removed	All	2,8	EMRS, Public Safety Consortium	Medium	General Funds, U.S. DHS FEMA Grants	Removed
<b>Action CCU.7</b> —Expand the capabilities of the Cook County Emergency Response Centers- North, Central, and South.								
<b>Status Description:</b>								
-		Completed	All	1, 2, 5, 8	EMRS	Medium	General Funds, U.S. DHS FEMA Grants	Short Term; Ongoing
<b>Action CCU.8</b> —Continue to support the development of the current Cook County Emergency Operations Center (EOC).								
<b>Status Description:</b>								
-		Completed	All	1, 2, 4, 5	OCPP, EMRS, Public Safety Consortium	Low	General Funds, U.S. DHS FEMA Grants	Short Term; Ongoing
<b>Action CCU.9</b> —Continue our partnership with the National Oceanic and Atmospheric Administration (NOAA) and the development of a Cook County weather system.								
<b>Status Description:</b>								
Ongoing		Ongoing	All	5, 6, 8, 12, 13	EMRS, BOT	Low	General Funds	Short-term; Ongoing
<b>Action CCU.10</b> —Expand the Cook County EMRS training program to include: county-wide elected officials, emergency managers, and other key emergency response personnel.								
<b>Status Description:</b>								

Ongoing	Ongoing	Ongoing	All	8, 12, 13	EMRS, Public Safety Consortium	Medium	General Funds, U.S. DHS FEMA Grants	Short-term
<b>Action CCU.11</b> —Integrate the Hazard Mitigation Plan (HMP) and Threat Hazard Identification Risk Assessment (THIRA) into other plans, programs, and initiatives that enhance or support all phases of emergency management.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	All	All	EMRS, Public Safety Consortium, DPD, MWRD	Low	General Funds	Short-term; Ongoing
<b>Action CCU.12</b> —Support municipal education on flood insurance programs.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Flood	6, 8	EMRS, Public Safety Consortium, DPD, MWRD	Low	General Funds	Short-term; Ongoing
<b>Action CCU.13</b> —Consider building code provisions to reduce earthquake damage risk.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Earthquakes	2,10	DBZ, OCPP	Low	General Funds	Long-term
<b>Action CCU.14</b> —Map and assess community vulnerability to seismic hazards.								
<b>Status Description:</b>								
-	-	Completed	Earthquakes	2, 3, 6, 7, 8, 12	EMRS, BOT	High	General Funds, U.S. DHS FEMA Grants	Long-term
<b>Action CCU.15</b> —Develop a mass notification system for tornadoes.								
<b>Status Description:</b>								
Ongoing		Ongoing	Tornado	2, 5, 8, 12	EMRS	High	General Funds, U.S. DHS FEMA Grants	Short-term
<b>Action CCU.16</b> —Consider public education programs on tornado warning protocols and shelter facilities.								
<b>Status Description:</b>								
Ongoing		Ongoing	Tornado	5, 6, 8, 12	EMRS, Public Safety Consortium	Low	General Funds	Short-term; Ongoing
<b>Action CCU.17</b> —Conduct regular analysis to identify vulnerabilities within Countywide communication systems.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Severe Weather	1, 2, 5, 8	EMRS, BOT	Medium	General Funds	Short-term
<b>Action CCU.18</b> —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.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	All	9, 10, 11, 13	EMRS, DBZ, DPD, MWRD, IDNR	High	General Funds, U.S. DHS FEMA Grants	Short-term; Ongoing
<b>Action CCU.19</b> —Coordinate with MWRD for flood-related mitigation projects.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Flooding	All	MWRD, EMRS, Public Safety Consortium	Medium	General Funds, U.S. DHS FEMA Grant	Short-term; Ongoing
<b>Action CCU.20</b> —Support and maintain a comprehensive plan for urban flooding.								
<b>Status Description:</b>								

Ongoing	-	Ongoing	Flood	All	MWRD, EMRS, Public Safety Consortium	Medium	General Funds, U.S. DHS FEMA Grants	Short-term; Ongoing
<b>Action CCU.21</b> —Adopt “no-adverse impact” floodplain management policies.								
<b>Status Description:</b>								
Ongoing	-	Ongoing	Flood	1, 2, 4, 7, 8, 9, 10, 13	EMRS, MWRD, DPD, Public Safety Consortium	Low	General Funds	Short-term
<b>Action CCU.22</b> —Consider obtaining easements for planned and regulated public use of privately-owned/ publicly owned land for temporary water retention and drainage.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Flood	1, 2, 3, 13	MWRD, DBZ, EMRS, DOTH, DPD	High	General Funds	Short-term; Ongoing
<b>Action CCU.23</b> —Consider a hazard mitigation fee on all new permits to create a hazard mitigation funding source for initiatives or grant cost share requirements.								
<b>Status Description:</b>								
-	-	Removed	Flood	1, 2, 3, 4, 6, 8, 9, 13	DBZ, DOPD, EMRS	Low	General Funds	Removed
<b>Action CCU.24</b> —Develop a strategy to address sewer and storm sewer capacity issues for future mitigation projects.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Flood, Severe Weather	9, 10	MWRD, Public Safety Consortium, EMRS	High	General Funds	Long-term
<b>Action CCU.25</b> —Participate in the Community Rating System (CRS).								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Flood	10, 11	Public Safety Consortium, EMRS	Low	General Funds	Long-term
<b>Action CCU.26</b> —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.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Flood	4, 6, 9	DBZ	Low	General Funds	Short-term; Ongoing
<b>Action CCU.27</b> —Consider the development of a plan that incorporates public and private partners to protect critical infrastructure and critical facilities within the county.								
<b>Status Description:</b>								
Ongoing	-	Ongoing	All	2, 8	Public Safety Consortium, EMRS	Medium	General Funds	Long-term
<b>Action CCU.28</b> —Increase capability for severe winter weather incidents through snow removal assets, weather tracking, and identification of where excess snow will be relocated.								
<b>Status Description:</b>								
-	-	Completed	Severe Weather	1, 2	DOTH, EMRS, CCFPD	Medium	General Funds	Short-term; Ongoing
<b>Action CCU.29</b> —Evaluate the role of a Floodplain Administrator for Cook County and appoint the agency that has the highest degree of capability to maintain the County’s floodplain management program.								
<b>Status Description:</b>								
Ongoing	-	Ongoing	Flood	8, 9, 11	DOTH, EMRS	Low	General Funds	Short-term; Ongoing
<b>Action CCU.30</b> —Develop more efficient methods to conduct post-disaster damage assessments.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	All	3, 4, 13	EMRS, Public Safety Consortium	Medium	General Funds, U.S. DHS FEMA Grants	Short-term
<b>Action CCU.31</b> —Revisit contingency plans for debris removal in high impact areas.								
<b>Status Description:</b>								

-	-	Removed	Tornado	8, 13	DOTH	Medium	General Funds	Removed
<b>Actions CCU.32</b> —Further develop supply chain plans for public health and healthcare-related concerns.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing	Flood	2, 8	CCDPH, EMRS, CCH	Low	General Funds	Ongoing
<b>Actions CCU.33</b> —Begin Flood Control Project on Farmers and Prairie Creeks.								
<b>Status Description:</b>								
Ongoing		New	Flood	1, 2, 3, 4, 7, 9	MWRD	Medium	Local Funds and Grants	Long-term
<b>Actions CCU.34</b> —Begin Central Road Flood Control Project.								
<b>Status Description:</b>								
Ongoing		New	Flood	1, 2, 3, 4, 7, 9	MWRD	Medium	Local Funds and Grants	Long-Term
<b>Actions CCU.35</b> —Begin Plainfield Road Flood Control Project from Willow Springs to East Avenue.								
<b>Status Description:</b>								
Ongoing		New	Flood	1, 2, 3, 4, 7, 9	MWRD	Medium	Local Funds and Grants	Long-term
<b>Actions CCU.36</b> —Begin Flood Control Project on Calumet-Sag Tributary C.								
<b>Status Description:</b>								
Ongoing		New	Flood	1, 2, 3, 4, 7, 9	MWRD	Medium	Local Funds and Grants	Long-term
<b>Actions CCU.37</b> —Develop Forest Preserve District of Cook County Green Infrastructure Project.								
<b>Status Description:</b>								
Ongoing		New	Flood	1, 2, 3, 4, 7, 9	MWRD	Medium	Local Funds and Grants	Long-term
<b>Actions CCU.38</b> —Start Storm Drainage System Improvement on 151st Street at Boca Rio Ditch in the City of Oak Forest. CCDOTH is working with MWRD and the City of Oak Forest to replace the deteriorating culvert with a larger one which will help to reduce the risk of local flooding.								
<b>Status Description:</b>								
Ongoing		New	Flood	2, 3, 7, 9, 13	CCDOTH, MWRD	\$788,660; Medium	MWRD Grant	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.								

**TABLE: COUNTYWIDE HAZARD COOK COUNTY 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)
<b>Action CW.1</b> —Cook County EMRS will develop its disaster intelligence capabilities in order to provide comprehensive support to the planning area for preparedness, mitigation, response, and recovery.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	2, 3, 5, 6, 12	EMRS, Bureau of Technology	Low	Existing funding and programs	Long-term
<b>Action CW.2</b> —Continue to support the success of the Public Safety Consortium in the following areas: mission, guidance, scope, structure, and training.								

<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	All	EMRS, Public Safety Consortium	Low	Existing funding and programs	Short-term; Ongoing
<b>Action CW.3</b> —Complete the countywide mass notification system project.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	2, 5, 8, 12	EMRS	Medium	Existing funding and programs	Short-term
<b>Action CW.4</b> —Integrate WebEOC into countywide operations and partner agencies.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	1, 2, 5, 8	EMRS, Public Safety Consortium	Medium	Existing funding and programs	Short-term
<b>Action CW.5</b> —Develop the current Cook County evacuation plan.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	5, 8, 12	EMRS, Public Safety Consortium	Low	Existing funding and programs	Short-term; Ongoing
<b>Action CW.6</b> —Review the Cook County sheltering inventory (type, location, and future development based on population models).								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	8, 12	EMRS, Public Safety Consortium	Medium	Existing funding and programs	Short-term and ongoing
<b>Action CW.7</b> —Expand the Cook County Mobile Response Team capabilities for emergency and disaster response.								
<b>Status Description:</b>								
Remove		Ongoing (Initiated in 2014)	All	1, 2, 8, 12	EMRS, Public Safety Consortium	Medium	Existing funding and programs	Short Term; Ongoing
<b>Action CW.8</b> —Create plan templates to promote uniformity in Emergency Operations Plans within the planning area.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	1, 2, 5, 8, 12, 13	EMRS	Medium	Existing funding and programs	Short-term
<b>Action CW.9</b> —Develop and implement a Countywide critical infrastructure security program								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	1, 2, 5, 8	EMRS, Public Safety Consortium	Medium	Existing funding and programs	Short-term; Ongoing
<b>Action CW.10</b> —Develop a Program that supports active local Community Emergency Response Team (CERT) programs.								
<b>Status Description:</b>								
Ongoing		Ongoing (Initiated in 2014)	All	1, 2, 8, 12	EMRS, Public Safety Consortium	High	Existing funding and programs	Long-term
<b>Action CW.11</b> —Review outreach strategies for populations with access or functional needs to expand countywide support capabilities in all phases of the disaster cycle.								
<b>Status Description:</b>								

Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	8, 12	EMRS, Public Safety Consortium	Low	Existing funding and programs	Short-term; Ongoing
<b>Action CW.12</b> —Continue to promote the core competencies of the StormReady Program for increased countywide severe weather preparedness.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	1, 2, 5, 6, 8, 12	EMRS, Public Safety Consortium	Low	Existing funding and programs	Short-term; Ongoing
<b>Action CW.13</b> —Review all existing mutual aid agreements and memorandums of understanding and determine how new action items should be incorporated. Add additional agreements as needed.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	Severe Weather	1, 2, 8	EMRS, Public Safety Consortium, Dept. of Business Continuity	Low	Existing funding and programs	Short-term; Ongoing
<b>Action CW.14</b> —Develop a countywide hazards task force to create a collective approach to natural hazard mitigation through the unification of plans, actions, and data.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	All	EMRS, Metropolitan Water Reclamation District, Public Safety Consortium, Dept. of Business Continuity	Low	Existing funding and programs	Short-term; Ongoing
<b>Action CW.15</b> —Identify and promote local, state, and federal funding sources for local flood mitigation projects.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	Flood	1, 2, 7, 9	EMRS, Bureau of Economic Development Department of Planning and Development	High	Existing funding and programs	Long-term
<b>Action CW.16</b> —Consider the development of a Countywide green infrastructure program.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	1, 3, 4, 6, 8, 10, 13	Metropolitan Water Reclamation District, Public Safety Consortium	Medium	Existing funding and programs	Long-term
<b>Action CW.17</b> —Consider the development of a Countywide climate adaptation strategy committee.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	1, 3, 4, 6, 8, 10, 13	Public Safety Consortium, EMRS	Medium	Existing funding and programs	Ongoing
<b>Action CW.18</b> —Maintain a hazard mitigation plan website where this final plan will be housed and planning partners, as well as members of the public, will be able to monitor plan implementation.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	All	6, 8	EMRS	Low	Existing funding and programs	Ongoing
<b>Action CW.19</b> —Support planning partner education by requesting mobile training courses covering the National Flood Insurance Program and Community Rating System information during the period of this plan.								
<b>Status Description:</b>								
Ongoing	Ongoing	Ongoing (Initiated in 2014)	Flood	3, 6, 8, 9, 11	EMRS, FEMA, IASFM	Medium	Existing funding and programs	Short-term
<b>Action CW.20</b> —Coordinate with IDNR, U.S. Army Corps of Engineers (USACE), and MWRD to study and assess in greater detail the risk associated with stormwater/urban flooding.								
<b>Status Description:</b>								

Ongoing	Ongoing	Ongoing (Initiated in 2014)	Flood , Severe Weather	3, 6, 8, 9, 11	EMRS, IDNR, USACE, MWRD	Medium	Existing funding and programs	Short-term and Long-term
<b>Action CW.21</b> —Evaluate capability and capacity for all local governments to provide and sustain emergency power to critical infrastructure resources under their control.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	Earthquake, Flood, Extreme Heat, Lightning, High Wind, Snow, Blizzard, Extreme Cold, Ice Storms, Tornado, Nuclear Power Plant Incident, Widespread Power Outage, Hazardous Materials Incident	1, 2	EMRS	High	Grants	Long-term
<b>Action CW.22</b> —Provide emergency power to critical infrastructure resources under local government control and sustain emergency power for a minimum of 72 hours without outside support based on the results of the emergency power evaluation (see Action CW.21)								
<b>Status Description:</b>								
Ongoing	Ongoing	New	Earthquake, Flood, Extreme Heat, Lightning, High Wind, Snow, Blizzard, Extreme Cold, Ice Storms, Tornado, Nuclear Power Plant Incident, Widespread Power Outage, Hazardous Materials Incident	1, 2	EMRS	High	Grants	Long-term
<b>Action CW.23</b> —Operationalize the Cook County Multi-Jurisdictional Hazard Mitigation Plan to more effectively establish a "programmatic" approach that integrates new and existing mitigation initiatives throughout the County by maximizing regional coordination and two-way information sharing of stakeholders.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	Dam/Levee Failure, Earthquake, Flood, Extreme Heat, Lightning, Hail, High Wind, Snow, Blizzard, Extreme Cold, Ice Storms, Tornado, Widespread Power Outage, Hazardous Materials Incident	All	EMRS	Low	Grants	Ongoing
<b>Action CW.24</b> —Enhance the current EMRS web site to more effectively be a resource for Cook County residents and jurisdictions within the County.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	All	6	EMRS	Low	TBD	Ongoing
<b>Action CW.25</b> —Maximize mitigation plan participation by all jurisdictions within Cook County, including those municipalities that share borders with adjoining counties.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	All	8	EMRS	Low	Local Funds and Grants	Ongoing
<b>Action CW.26</b> —Implement and enforce zoning ordinances regarding impervious surface areas in residential and commercial areas to enhance drainage and manage development.								



<b>Status Description:</b>								
Ongoing	Ongoing	New	Flood	3, 4, 10	Cook County Department of Building and Zoning	Low	Local Funds and Grants	Ongoing
<b>Action CW.27</b> —Promote and implement new ordinances, guidelines, and actions for tree removal and replacement.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	High Wind, Snow, Blizzard, Ice Storms, Tornado, Widespread Power Outage	3, 4, 10	Cook County Department of Building and Zoning	Low	Local Funds and Grants	Ongoing
<b>Action CW.28</b> —Design and construct stormwater improvement projects in the County.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	Flood	1, 2, 3, 4, 7, 9	Cook County Economic Development, MWRD	High	Local Funds and Grants	Ongoing
<b>Action CW.29</b> —Implement and sustain Cook County's Disaster Recovery Program.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	Flood	2, 3, 7, 9	Cook County Bureau of Economic Development - Cook County Department of Planning and Development	High	Grants	Ongoing
<b>Action CW.30</b> —Proactively engage local-level GIS personnel and key stakeholders to determine local-level capabilities and datasets in order to better analyze hazard risk, exposure, vulnerability and impacts when conducting future risk assessments for the County and planning partners.								
<b>Status Description:</b>								
Ongoing	Ongoing	New	All	2, 3, 8	Cook County EMRS	Low	Local Funds	Ongoing
<b>Action CW.31</b> —Obtain inundation maps and EAPs from owners of high hazard Dams in the planning area								
<b>Status Description:</b>								
Ongoing	Ongoing	New	Dam / Levee Failure	2, 8	Cook County EMRS	High	Current Funds	Ongoing
<b>Action CW.32</b> —Add Forest Preserve District to Cook County Multi-Jurisdictional Hazard Mitigation Plan								
<b>Status Description:</b>								
New	-	-	All Hazards, Dam / Levee Failure	3, 5, 6	Cook County Forest Preserves	Low	-	2022
<b>Action CW.33</b> —Support Illinois Coastal Management Program in Cook County								
<b>Status Description:</b>								
Ongoing	Ongoing	New	Flood, Coastal Erosion	1, 2, 6	FEMA, IEMA, EMRS	Low	-	-
<b>Action CW.34</b> —Create Resilience Hubs for the residents of Cook County								
<b>Status Description:</b>								
New	-	-	All Hazards	2, 4	CC Environment and Sustainability	\$2,800,000	Grants	-
<b>Action CW.35</b> —Receive and maintain Emergency Management Accreditation Program (EMAP) Accreditation								
<b>Status Description:</b>								
New	-	-	All Hazards	4, 5, 6	Cook County	Low	-	2026
<b>Action CW.36</b> —Support Chicago and MWRD River Gauge Funding Program								
<b>Status Description:</b>								
New	-	-	Dam/Levee Failure, Flood	1, 2, 3, 4	MWRD, EMRS	Medium	BRIC	-
<b>Action CW.37</b> —Increase Cook County Preparedness to all hazards								
<b>Status Description:</b>								

New			All Hazards	4, 5, 6	EMRS	Low	-	
<b>Action CW.38</b> —Provide Leading Through Crisis Training to all County senior and executive municipal leadership								
<b>Status Description:</b>								
New			All Hazards	4, 5, 6	EMRS	Low	Grant Funding	
<b>Action CW.39</b> —Increase the Cook County Pet Sheltering capacity								
<b>Status Description:</b>								
New	-	-	All Hazards	2,6	EMRS Preparedness	Low	Grant Funding	-
(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.

## 5.1 Action CW.32

<b>Mitigation Action</b>	Flood Hazard Mitigation study
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	Village of Phoenix
<b>Lead Agency/Organization</b>	Metropolitan Water Reclamation District
<b>Supporting Agencies/Organizations</b>	Donohue Group
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.</li> <li>• Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards.</li> <li>• Develop, promote, and integrate mitigation action plans.</li> <li>• Promote public understanding of and support for hazard mitigation.</li> </ul>
<b>Potential Funding Source</b>	-
<b>Estimated Cost</b>	-
<b>Benefits (loss avoided)</b>	-
<b>Projected Completion Date</b>	2022
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium Priority
<b>Benefit Analysis (Low, Medium, High)</b>	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.
<b>Cost Analysis (Low, Medium, High)</b>	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	Use the Linkage Package in the 2019 Cook County Multi-Jurisdictional Hazard Mitigation Plan to assist Cook County Forest Preserve District to become a participant.
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

**Mitigated Hazards**

X	<b>All Hazards</b>
X	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

## 5.2 Action CW.33

<b>Mitigation Action</b>	Support Illinois Coastal Management Program in Cook County
<b>Year Initiated</b>	2019
<b>Applicable Jurisdiction</b>	FEMA, IEMA, EMRS
<b>Lead Agency/Organization</b>	DOTH
<b>Supporting Agencies/Organizations</b>	EMRS
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects.</li> <li>• Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> <li>• Promote public understanding of and support for hazard mitigation.</li> </ul>
<b>Potential Funding Source</b>	-
<b>Estimated Cost</b>	-
<b>Benefits (loss avoided)</b>	-
<b>Projected Completion Date</b>	-
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium Priority
<b>Benefit Analysis (Low, Medium, High)</b>	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.
<b>Cost Analysis (Low, Medium, High)</b>	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	-
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

**Mitigated Hazards**

<b>All Hazards</b>	
	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
X	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

## 5.3 Action CW.34

<b>Mitigation Action</b>	Create Resilience Hubs for the residents of Cook County
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	CC Environment and Sustainability
<b>Lead Agency/Organization</b>	Cook County and Sustainability
<b>Supporting Agencies/Organizations</b>	EMRS
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> <li>• Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards.</li> </ul>
<b>Potential Funding Source</b>	Grants
<b>Estimated Cost</b>	\$2,800,000
<b>Benefits (loss avoided)</b>	-
<b>Projected Completion Date</b>	-
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium Priority
<b>Benefit Analysis (Low, Medium, High)</b>	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.
<b>Cost Analysis (Low, Medium, High)</b>	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.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	Project will begin in late 2021 and continue for approximately 2 1/2 years. IEPA loan was granted and will cover funds for project. Plan will allow infrastructure to handle more flow further reducing the chance of flooding during severe storms and heavy rains.
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

**Mitigated Hazards**

X	<b>All Hazards</b>
	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



## 5.4 Action CW.35

<b>Mitigation Action</b>	Receive and maintain Emergency Management Accreditation Program (EMAP) Accreditation
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	Cook County
<b>Lead Agency/Organization</b>	EMRS
<b>Supporting Agencies/Organizations</b>	Cook County PSC
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards.</li> <li>Develop, promote, and integrate mitigation action plans.</li> <li>Promote public understanding of and support for hazard mitigation.</li> </ul>
<b>Potential Funding Source</b>	-
<b>Estimated Cost</b>	-
<b>Benefits (loss avoided)</b>	-
<b>Projected Completion Date</b>	2026
<b>Priority and Level of Importance (Low, Medium, High)</b>	Low Priority
<b>Benefit Analysis (Low, Medium, High)</b>	Low—Long-term benefits of the project are difficult to quantify in the short term.
<b>Cost Analysis (Low, Medium, High)</b>	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	-
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
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

## 5.5 Action CW.36

<b>Mitigation Action</b>	Support Chicago and MWRD River Gauge Funding Program
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	EMRS Preparedness
<b>Lead Agency/Organization</b>	MWRD, EMRS
<b>Supporting Agencies/Organizations</b>	
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects.</li> <li>• Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> <li>• Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.</li> <li>• Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards.</li> </ul>
<b>Potential Funding Source</b>	BRIC
<b>Estimated Cost</b>	TBD
<b>Benefits (loss avoided)</b>	River Gauges are a critical indicator of potential flooding for Cook County Communities. They provide early warning for response and potential mitigation of events.
<b>Projected Completion Date</b>	TBD
<b>Priority and Level of Importance (Low, Medium, High)</b>	High Priority
<b>Benefit Analysis (Low, Medium, High)</b>	High—Project will provide an immediate reduction of risk exposure for life and property.
<b>Cost Analysis (Low, Medium, High)</b>	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.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	-
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

**Mitigated Hazards**

<b>All Hazards</b>	
X	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

## 5.6 Action CW.37

<b>Mitigation Action</b>	Increase Cook County Preparedness to all hazards
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	EMRS Preparedness
<b>Lead Agency/Organization</b>	EMRS
<b>Supporting Agencies/Organizations</b>	Animal Control
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards.</li> <li>• Develop, promote, and integrate mitigation action plans.</li> <li>• Promote public understanding of and support for hazard mitigation.</li> </ul>
<b>Potential Funding Source</b>	Grant Funding
<b>Estimated Cost</b>	-
<b>Benefits (loss avoided)</b>	-
<b>Projected Completion Date</b>	-
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium Priority
<b>Benefit Analysis (Low, Medium, High)</b>	Low—Long-term benefits of the project are difficult to quantify in the short term.
<b>Cost Analysis (Low, Medium, High)</b>	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	-
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
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

## 5.7 Action CW.38

<b>Mitigation Action</b>	Provide Leading Through Crisis Training to all County senior and executive municipal leadership
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	Countywide
<b>Lead Agency/Organization</b>	EMRS
<b>Supporting Agencies/Organizations</b>	
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards.</li> <li>• Develop, promote, and integrate mitigation action plans.</li> <li>• Promote public understanding of and support for hazard mitigation.</li> </ul>
<b>Potential Funding Source</b>	Grant Funding
<b>Estimated Cost</b>	-
<b>Benefits (loss avoided)</b>	-
<b>Projected Completion Date</b>	-
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium Priority
<b>Benefit Analysis (Low, Medium, High)</b>	Low—Long-term benefits of the project are difficult to quantify in the short term.
<b>Cost Analysis (Low, Medium, High)</b>	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	The Leading Through Crisis training will provide routine educational opportunities for senior and executive municipal leadership responsible for Cook County's local disaster response.
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
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

## 5.8 Action CW.39

<b>Mitigation Action</b>	Increase the Cook County Pet Sheltering capacity
<b>Year Initiated</b>	2021
<b>Applicable Jurisdiction</b>	Countywide
<b>Lead Agency/Organization</b>	EMRS Preparedness
<b>Supporting Agencies/Organizations</b>	Animal Control
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> <li>• Promote public understanding of and support for hazard mitigation.</li> </ul>
<b>Potential Funding Source</b>	Grant Funding
<b>Estimated Cost</b>	-
<b>Benefits (loss avoided)</b>	-
<b>Projected Completion Date</b>	-
<b>Priority and Level of Importance (Low, Medium, High)</b>	Low Priority
<b>Benefit Analysis (Low, Medium, High)</b>	Low—Long-term benefits of the project are difficult to quantify in the short term.
<b>Cost Analysis (Low, Medium, High)</b>	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	-

### Recommended Mitigation Action/Implementation Plan and Project Description

<b>Action/Implementation Plan and Project Description:</b>	
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### Mitigation Action and Project Maintenance

Year	Status	Comments
2019		
2020		
2021	New	
2022		
2023		

### Mitigated Hazards

X	<b>All Hazards</b>
	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