

6 MWRD 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.

No Listing

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 and 2020 Natural Hazard Events Here:

- [October 24-25, 2021](#): Widespread heavy rain and strong winds, as well as lakeshore flooding
- [August 24, 2021](#): Thunderstorms produce wind damage and localized flooding in northern IL
- [August 10-11, 2021](#): Multiple rounds of severe storms produce widespread wind damage
- [July 29, 2021](#): Overnight severe thunderstorms produce wind damage across the Chicago metro
- [July 24, 2021](#): Gusty thunderstorms track across part of the area
- [June 25-26, 2021](#): Severe storms produce four tornadoes and flash flooding
- [June 20-21, 2021](#): Late night tornadoes & wind damage, including an EF-3 tornado in Naperville to Willow Springs
- [February 14-16, 2021](#): Heavy snow brings a foot plus to all of Chicago; caps off record three weeks
- [January 30-31, 2021](#): Widespread 6-12 " of snow, including largest snow event in Chicago in five years
- [November 15, 2020](#): Widespread 50 mph gusts, part of a windy 2020 autumn
- [November 10, 2020](#): Strong fall weather system produces damaging winds and two EF-0 tornadoes
- [August 10, 2020](#): Powerful derecho brings widespread severe winds and numerous tornadoes
- [July 19, 2020](#): Thunderstorms bring morning wind damage and heavy rain
- [June 26-27, 2020](#): Severe storms bring areas of wind damage followed by flash flooding
- [June 9-10, 2020](#): Wind damage in Chicago area
- [May 17, 2020](#): Significant flash flood event for Chicago and its suburbs

- [May 14-15, 2020](#): Widespread flash flooding in northern IL and wind damage
- [April 28-30, 2020](#): Heavy rain and lakeshore flooding event
- [April 7, 2020](#): Significant large hail to the size of baseballs near Rockford and in Evanston, IL
- [March 6, 2020](#): Lakeshore flooding in northwest IN and parts of Chicago
- [January 10-11, 2020](#): Significant lakeshore flooding in Chicago; gusty winds, heavy rain and wintry mix too

All information above is from <https://www.weather.gov/lot/events> .

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 MWRD-1 —Reduce flooding and improve Chicagoland’s water quality by completing the Tunnel and Reservoir Plan. The completion of Thornton Reservoir will provide 4.8 billion gallons of storage for combined sewers, and an additional 3.1 Billion Gallons for flood relief from the Thornton River. When complete, the Thornton Reservoir will provide 7.9 billion gallons of storage. The Thornton Reservoir is planned to be completed in 2015.								
Status Description: Thornton Reservoir was completed in 2015. More information on TARP can be found at https://mwrdd.org/tunnel-and-reservoir-plan-tarp .								
C	C	Completed	Flooding	2, 9, 12	MWRD	High	MWRD, Grant funding	Completed
Action MWRD-2 —Reduce flooding and improve Chicagoland’s water quality by completing the Tunnel and Reservoir Plan. The completion of Stage I of McCook Reservoir will provide 3.5 billion gallons of storage for combined sewers. Stage I of the McCook Reservoir is planned to be completed in 2017.								
Status Description: Stage I of McCook Reservoir was completed in 2017. More information on TARP can be found at https://mwrdd.org/tunnel-and-reservoir-plan-tarp .								
C	C	Completed	Flooding	2, 9, 12	MWRD	High	MWRD, Corps of Engineers	Completed
Action MWRD-3 —Reduce flooding and improve Chicagoland’s water quality by completing the Tunnel and Reservoir Plan. The completion of Stage II of McCook Reservoir will provide an additional 6.5 billion gallons of storage for combined sewers. When complete, the McCook reservoir will provide a total of 10.0 billion gallons. Stage II of the McCook Reservoir is planned to be completed in 2029.								
Status Description: Stage II of McCook Reservoir is under construction, and Stage II is on scheduled to be completed by 2029. More information on TARP can be found at https://tunnel-and-reservoir-plan-tarp .								
O	O	Ongoing	Flooding	2, 9, 12	MWRD, Corps of Engineers	High	MWRD, Corps of Engineers	Long-term
Action MWRD-4 —Implementation and enforcement of the Watershed Management Ordinance for Cook County.								
Status Description: MWRD’s Stormwater Management Program Annual Reports provide yearly updates on Watershed Management Ordinance (WMO) activities. The Stormwater Management Program Annual Reports can be found at https://mwrdd.org/stormwater-management-1 under Publications. More information on the WMO can be found at https://mwrdd.org/watershed-management-ordiance-and-infiltrationinflow-control-program .								
O	O	Ongoing	Flooding	2, 3, 4, 6, 8, 10, 12, 13	MWRD	Low	MWRD	Short-term and Long-term

Action MWRD-5 —Reduce flooding by designing and implementing flood control projects approved and budgeted by the District’s Board of Commissioners.								
Status Description: MWRD’s Stormwater Management Program Annual Reports provide yearly updates on flood control projects under design and construction. The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications.								
O	O	Ongoing	Flooding	2, 3, 9, 12	MWRD	High	MWRD, HMGP, & PDM	Short-term and Long-term
Action MWRD-6 —Reduce potential to damages to structures and infrastructure by designing and implementing stream-bank stabilization projects approved and budgeted by the District’s Board of Commissioners.								
Status Description: MWRD’s Stormwater Management Program Annual Reports provide yearly updates on stream-bank stabilization projects under design and construction. The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications.								
O	O	Ongoing	Flooding, Severe Weather	2, 13	MWRD	High	MWRD	Short Term and Long Term
Action MWRD-7 —Reduce flooding, basement backups, and combined sewer overflows by developing guidelines and framework for the District’s Green Infrastructure Program. The guidelines will help with designing, implementing, and promoting green infrastructure.								
Status Description: MWRD’s Stormwater Management Program Annual Reports provide yearly updates on Green Infrastructure Program. The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications. More information on the Green Infrastructure Partnership Opportunity Program is available at https://mwrld.org/green-infrastructure-partnership-opportunity-program-0 .								
O	O	Ongoing	Flooding, Severe Weather	2, 3, 9, 12, 13	MWRD	Low	MWRD	Short-term and Long-term
Action MWRD-8 —Continue to work with the Watershed Planning Councils								
Status Description: MWRD’s Stormwater Management Program Annual Reports provide yearly updates on Watershed Planning Councils (WPC). The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications. WPC Meeting Schedule is posted at https://mwrld.org/stormwater-management-1 under Watershed Planning Councils.								
O	O	Ongoing	Flooding	3, 4, 5, 6, 8, 10, 11, 13	MWRD	Low	MWRD	Short-term and Long-term
Action MWRD-9 —Continue the Small Streams Maintenance Program to reduce potential for flooding in urbanized areas.								
Status Description: MWRD’s Stormwater Management Program Annual Reports provide yearly updates on Small Streams Maintenance Program. The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications. More information on Small Streams Maintenance Program can be found at https://mwrld.org/small-strams-maintenance-program . The webpage provide information on how much debris was removed from the streams for each year. The webpage also provide a link for municipalities and residents to report blockages along streams within Cook County. The blockages can be reported at https://gispub.mwrld.org/incidentreporting/ .								
O	O	Ongoing	Flooding, Severe Weather	2, 12, 13	MWRD	Low	MWRD	Short-term and Long-term
Action MWRD-10 —Expand Small Streams Maintenance Program’s website content to provide educational materials, as well as general information regarding the management of the Chicago Area Waterways System before, during, and after a storm event.								
Status Description: MWRD created educational information on how Chicago Area Waterways System (CAWS) works before, during, and after a storm event. The educational information can be found at https://mwrld.org/chicago-area-waterway-system .								
C	O	Ongoing	Flooding, Severe Storm	6	MWRD	Low	MWRD	Short-term
Action MWRD-11 —Reduce flooding by continuing to seek and support funding partnership opportunities for projects to address flooding.								
Status Description: MWRD’s funding partnership opportunities can be found at https://mwrld.org/stormwater-management-1 under Stormwater Partner Opportunities.								
O	O	Ongoing	Flooding	2, 8, 9, 12, 13	MWRD	High	MWRD, Municipalities Townships, local, state, and federal agencies, etc.	Short-term and Long-term
Action MWRD-12 —Continue to update and improve the District’s existing critical infrastructure and facilities to mitigate against natural hazards through the capital improvement program.								
Status Description: MWRD continues to update and improve the District’s existing critical infrastructure and facilities to mitigate against natural hazards through capital improvement projects.								
O	O	Ongoing	All	2, 3, 4, 9, 13	MWRD	Low	MWRD, HMGP, & PDM	Short-term and Long-term
Action MWRD-13 —Integrate goals and objectives of the Cook County Natural Hazard Mitigation Plan into existing and future MWRD project and planning actions.								
Status Description: MWRD continues integrate goals and objectives of the Cook County HMP into existing and future projects through planning, designing, and construction.								
O	O	Ongoing	All	All	MWRD	Low	MWRD	Short-term and Long-term

Action MWRD-14 —Continue to initiate preliminary design, final design, or construction of Phase II- Localized Stormwater Management projects.								
Status Description: MWRD's Stormwater Management Program Annual Reports provide yearly updates on Phase II-Localized Stormwater Management. The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications.								
O	O	Ongoing	Flooding	1, 2, 8, 9, 12, 13	MWRD	High	MWRD, Municipalities, Townships, Cook County, IDOT, HMGP, & PDM	Short-term and Long-term
Action MWRD-15 —Continue the ongoing process of updating existing plans and procedures to mitigate against all hazards, and continue to develop new plans and procedures to mitigate new hazards.								
Status Description: MWRD continues to update plans and procedures to mitigate natural hazards.								
O	O	Ongoing	All	1, 2, 4, 5, 8, 12, 13	MWRD	Low	MWRD, HMGP, & PDM	Short-term and Long-term
Action MWRD-16 —Continue to support the countywide initiatives identified in this plan.								
Status Description: MWRD continues support countywide initiatives through our Stormwater Management Program and at our facilities.								
O	O	Ongoing	All Hazards	5, 6, 8, 12	MWRD, Cook Co. DHSEM	Low	MWRD, Cook Co. DHSEM	Ongoing
Action MWRD-17 —Actively participate in the plan maintenance strategy identified in this plan.								
Status Description: MWRD continues to provide annual reports for the HMP.								
O	O	Ongoing	All Hazards	1, 6, 8	MWRD	Low	MWRD	Ongoing
Action MWRD-18 —Reduce flooding and improve Chicagoland's water quality by continuing to use the 4.5 billion gallons Thornton Transitional Reservoir for additional storage of floodwater from Thorn Creek through 2022.								
Status Description: MWRD's agreement with Hanson Material Service Corporation for the lease to use for flood storage runs until 12/31/22.								
O	O	Ongoing	Flood	1, 9	MWRD	Low	MWRD & NRCS	2020
Action MWRD-19 —Address repetitive losses to properties in high flood risk areas throughout the District's jurisdictional boundaries through our voluntary flood prone property acquisition program.								
Status Description: MWRD's Stormwater Management Program Annual Reports provide yearly updates on Flood-Prone Property Acquisition program. The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications. More information on the Flood-Prone Property Acquisition program is available at https://mwrld.org/flood-prone-property-acquisition .								
O	O	New	Flood	1, 2, 3, 4, 7, 12	MWRD	Medium	MWRD, Municipalities, Townships, Cook County, FEMA's HMPG, and FEMA's PDM	Ongoing
Action MWRD-20 —Reduce flooding by developing stormwater master plans for subwatersheds, sewer-sheds, or municipalities.								
Status Description: MWRD's Stormwater Management Program Annual Reports provide yearly updates on Stormwater Master Planning. The Stormwater Management Program Annual Reports can be found at https://mwrld.org/stormwater-management-1 under Publications. More information on the planning is posted at https://mwrld.org/stormwater-management-1 under Stormwater Master Planning.								
O	O	New	Flood	1, 2, 3, 4, 8, 9, 10, 12	MWRD	Low	MWRD	Long-term
Action MWRD-21 —Reduce flooding by distributing low-cost rain barrels to residents of Cook County.								
Status Description: MWRD continues to distribute low -cost rain barrels to residents of Cook County. More information on this program can be found at https://mwrld.org/rain-barrels .								
O	O	New	Flood	12, 13	MWRD	Low	MWRD	Ongoing
Action MWRD-22 —Reduce flooding by distributing free tree saplings to residents of Cook County.								
Status Description: MWRD continues to distribute free tree samplings. More information on this program can be found at https://mwrld.org/treerestore-canopy .								
O	O	New	Flood	12, 13	MWRD	Low	MWRD	Ongoing
(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.

MWRD's Stormwater Management Program Annual Reports provide yearly updates on completed projects, projects under constructed, and projects under design.

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.

Coordinate with local jurisdictions to work to amend the Technical Scoring Criteria for the FEMA BRIC Grant so that applicants in Illinois are no longer penalized and prevented from receiving funding due to lack of a state-wide building code.