

## Hazard Mitigation Plan Point of Contact

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## Jurisdiction Profile

The following is a summary of key information about the jurisdiction and its history:

**Date of Incorporation:** 1926

**Current Population:** The 2020 U.S. Census population was 249. The 2022 U.S. Census estimate indicated the population was 240.

**Population Growth:** The overall population has increased by 8.60% between 2018 and 2022.

**Location and Description:** McCook is a small suburb of Chicago located 14 miles southwest of the Chicago Loop in Cook County. Adjacent towns that border McCook are Brookfield and Lyons to the north, Countryside and Hodgkins to the south, Summit to the east, and LaGrange to the west. The Des Plaines River runs through the southeast and northeast corners of McCook. Interstate 55 (Stevenson Expressway) runs adjacent to the east border and intersects Interstate 294 (Tri-State Tollway) 2 miles southwest of McCook. According to the United States Census Bureau, the village has a total area of 2.6 square miles. McCook is home to a large amount of heavy industry, including portions of Vulcan Materials Company McCook Quarry, UOP, and the progress rail railroad locomotive plant. McCook is home to a small population but a large amount of heavy industry, resulting in a large tax base.

**Brief History:** McCook is home to a small population, but a large amount of heavy industry. It was named for John J. McCook, a late 19th-century director of the Santa Fe Railroad and a former Civil War officer. The railway stopped at a small station in McCook. The Outlaws Motorcycle Club was established in McCook in 1935 when U.S. Route 66 was in existence and passed through the town.

**Climate:** The climate of McCook and the Chicago area is classified as humid continental, with all four seasons distinctly represented: wet springs; hot and humid summers; pleasant autumns; and cold winters. Annual precipitation is average, reaching its lowest points in January and February, and peaks in May and June. Winter proves quite variable. Seasonal snowfall in the city has ranged from 9 – 90 inches. The daily average temperature in January at Midway Airport is 24.8 °F (–4.0 °C), and

temperatures often stay below freezing for several consecutive days or even weeks in January and February. Temperatures drop to or below 0 °F (–18 °C) on 5.5 nights annually at Midway and 8.2 nights at O’Hare. Spring in the Chicago area is perhaps the city’s wettest and most unpredictable season. Winter-like conditions can persist well into April and even occasionally into May. Thunderstorms are especially prevalent in spring as the city’s lakeside location makes it a center of conflicts between large volumes of warmer and colder air, triggering many kinds of severe weather. Temperatures vary tremendously in the springtime; March is the month with the greatest span between record highs and lows. On a typical summer day, humidity is usually moderately high, and temperatures ordinarily reach anywhere between 78 and 92 °F (26 and 33 °C). The extreme heat that the Chicago area can experience during the height of the summer season can persist into the autumn season. Temperatures have reached 100 degrees high and subzero lows below –18 °C. Fall can bring heavy thunderstorms, many of which can produce flooding. The average first accumulating snow occurs around Nov 19.

**Governing Body Format:** McCook is governed by a mayor, six trustees, one clerk, one treasurer, and one deputy clerk. This body of Government will assume the responsibility for the adoption and implementation of this plan. The Village consists of seven departments: Fire, Police, Clerk's office, Public Works, Water, Building, and IT.

**Development Trends:** Anticipated development levels for McCook are low to moderate, consisting primarily of Industrial and Warehouse buildings. In December 2018, Best Western Hotels & Resorts announced the groundbreaking of a GLō hotel in McCook, Illinois.

**Changes in Community Priorities:** There have been no significant changes in priority regarding the hazards that could potentially impact the community or changes in priority regarding resilience.

## Capability Assessment

The assessment of the jurisdiction’s legal and regulatory capabilities is presented in the *Legal and Regulatory Capability Table* below. The assessment of the jurisdiction’s fiscal capabilities is presented in the *Fiscal Capability Table* below. The assessment of the jurisdiction’s administrative and technical capabilities is presented in the *Administrative and Technical Capability Table* below. Information on the community’s National Flood Insurance Program (NFIP) compliance is presented in the *National Flood Insurance Program Compliance Table* below. Classifications under various community mitigation programs are presented in the *Community Classifications Table* below.

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
<b>Codes, Ordinances &amp; Requirements</b>					
Building Code	Yes	No	No	Yes	In accordance with Public Act 096-0704, Illinois has adopted the IBC as its state Building Code

Zonings	Yes	No	No	Yes	(65 ILCS 5/) Illinois Municipal Code.
Subdivisions	Yes	No	No	No	
Stormwater Management	Yes	No	Yes	No	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	No	No	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	No	No	No	No	
Site Plan Review	Yes	No	No	No	
Public Health and Safety	Yes	No	Yes	Yes	Cook County Board of Health.
Environmental Protection	Yes	No	No	No	
<b>Planning Documents</b>					
General or Comprehensive Plan	No	No	No	No	
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					N/A
Floodplain or Basin Plan	No	No	Yes	No	
Stormwater Plan Deep Tunnel Project	Yes	No	Yes	No	Regional stormwater impacts are managed by MWRD. The Village lies within the Des Plaines/Calumet Sag Channel watersheds planning area of MWRD's comprehensive Stormwater Master Planning Program.
Capital Improvement Plan	No	No	No	No	

<i>What types of capital facilities does the plan address?</i>					N/A
<i>How often is the plan revised/updated?</i>					N/A
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	No	Yes	Yes	The Economic Development Commission is charged with reviewing all economic development related programs and incentives including tax incentives offered through the Cook County 6b program.
Shoreline Management Plan	No	No	No	No	
<b>Response/Recovery Planning</b>					
Comprehensive Emergency Management Plan	No	No	Yes	No	Cook County EMRS
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	No	No	Yes	No	Cook County EMRS
Post-Disaster Recovery Plan	No	No	No	No	
Continuity of Operations Plan	No	No	Yes	No	Cook County EMRS
Public Health Plans	Yes	No	No	No	Cook County DPH

<b>TABLE: FISCAL CAPABILITY</b>	
<b>Financial Resources</b>	<b>Accessible or Eligible to Use?</b>
Community Development Block Grants	Yes
Capital Improvements Project Funding	No
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes

Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	Yes
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	Yes

<b>TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY</b>		
<b>Staff/Personnel Resources</b>	<b>Available?</b>	<b>Department/Agency/Position</b>
Planners or engineers with knowledge of land development and land management practices	Yes	Engineering Department
Engineers or professionals trained in building or infrastructure construction practices	Yes	Engineering Department
Planners or engineers with an understanding of natural hazards	Yes	Engineering Department
Staff with training in benefit/cost analysis	Yes	Engineering Department
Surveyors	Yes	Engineering Department
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	Yes	Engineering Department
Emergency manager	Yes	Cook County EMRS
Grant writers	Yes	Engineering Department

<b>TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE</b>	
What department is responsible for floodplain management in your jurisdiction?	Building Department
Who is your jurisdiction's floodplain administrator? (department/position)	Building Department
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	March, 2008
When was the most recent Community Assistance Visit or Community Assistance Contact?	Have not had a Community Assistance Visit
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	No
Does your jurisdiction participate in the Community Rating System (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program?	No; Undecided

### **NFIP Participation Activities**

Maintaining compliance under the NFIP is an important component of flood risk reduction. All planning partners that participate in the NFIP have identified actions to maintain their compliance and good standing. Cook County entered the NFIP on April 15, 1981. Structures permitted or built in

the County before then are called “pre-FIRM” structures and structures built afterward are called “post-FIRM.” The insurance rate is different for the two types of structures. The effective date for the current countywide FIRM is August 19, 2008. This map is a DFIRM (digital flood insurance rate map). The communities in Cook County that participate in the NFIP are shown in **Table: NFIP Participating Communities in Cook County** in **Volume I** of the Cook County MJ-HMP.

The NFIP makes federally-backed flood insurance available to homeowners, renters, and business owners in participating communities. The communities in Cook County that participate in the NFIP and their "Policies in Force," "Total Coverage," and "Total Written Premiums" are shown in **Table: Cook County Flood Insurance Policies** in **Volume I** of the Cook County MJ-HMP.

### **Substantial Improvement Rule and the Substantial Damage Rule**

The IDNR/OWR has developed a model ordinance for floodplain management, which has been adopted by most communities in Illinois. The ordinance includes the minimum requirements an NFIP participating jurisdiction must adopt and enforce, as well as additional higher regulatory requirements. The optional, higher regulatory standards include a minimum of one foot of freeboard above the base flood elevation and cumulative tracking of damage repairs and improvements to establish substantial damage and substantial improvement compliance. Some jurisdictions have chosen to exceed the requirements of the model ordinance and have adopted more restrictive ordinances. This is most common in the communities in northeastern Illinois.

*Existing Municipal Code:*

### **300.65 Substantial Damage**

Damage of any origin sustained by a structure whereby the cumulative percentage of damage ("**subsequent to the adoption of this ordinance**") equals or exceeds 50 percent of the market value of the structure before the damage occurred **regardless of actual repair work performed**. Volunteer labor and materials must be included in the determination. The term includes Repetitive Loss Buildings See 300.56 "Repetitive Loss".

### **300.66 Substantial Improvement**

Any reconstruction, rehabilitation, addition, or improvement of a structure taking place ("**subsequent to the adoption of this ordinance**") in which the cumulative percentage of improvements equals or exceeds 50 percent of the market value of the structure before the improvement or repair is started.

**300.66.1** (Substantial Improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the building. This term includes structures which have incurred repetitive loss or substantial damage, regardless of the actual work done.

**300.66.2** The term does not, however, include either:

**300.66.2.1** any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions, or

**300.66.2.2** any alteration of a "historic structure" listed on the National Register of Historic Places or the Illinois Register of Historic Places, provided that the alteration will not preclude the structure's continued designation as a historic structure.

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	Unknown	Unknown
Public Protection/ISO	Unknown	Unknown	Unknown
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	No	N/A	N/A

### **Opportunities to Expand and Improve Capabilities**

Opportunities to expand and improve capabilities include;

- We need to improve on GIS and building stability and power back up for our community, as we have large percentage of seniors on home oxygen that need power to use their machines for breathing.
- Grant opportunities and agreements with neighboring towns to split costs. All can be improved with more funding opportunities.

### **Plan Integration**

The capability assessment describes opportunities to "link" or integrate the mitigation plan into other planning mechanisms. The process and mechanism to identify opportunities to integrate the Cook County MJ-HMP into other planning mechanisms will occur during the Annual Update Process and be reflected in the Jurisdictional Annual Report each year. Specific plan integration opportunities will include:

- The hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the jurisdiction's land use plans, zoning, and subdivision codes.

### **Emergency Plan Integration:**

Cook County EMRS is supporting communities to develop and update their respective Emergency Operations Plans, Continuity of Operations Plans/Continuity of Government Plans, and Recovery Plans in 2024. This is an ongoing countywide initiative and is being implemented in all municipalities.

### **Emergency Operations Plan (EOP)**

An EOP template was created for all municipalities. The 2019 Cook County MJ-HMP and the hazards in the mitigation plan have been integrated into the Situation and Assumptions section of the EOP. Within that section, the natural hazards based on the 2019 MJ-HMP were added in the Initial Analysis and Assessment and Identification of Hazards section of the EOP. The hazards in the 2019 plan and the 2024 MJ-HMP did not change apart from adding wildfires for the Forest Preserve and

unincorporated areas of the County. Future updates of the EOP will take into consideration any additional new natural hazards that are added to subsequent updates to the MJ-HMP.

#### Continuity of Operations Plan (COOP)

The Continuity of Operations Plan (COOP) for the municipality includes a Situation section that is based on the 2019 Cook County MJ-HMP jurisdictional annex, and specifically the hazards identified in the annex. The COOP-specific risk assessment is hazard-specific and based on the likelihood of occurrence and severity of impact.

#### Recovery Plan

The goals of the Recovery Plan were developed to align with the 2019 Cook County MJ-HMP, and specifically prioritize the responsibility of officials under this plan to save lives, protect property, relieve human suffering, sustain survivors, repair essential facilities, restore services, and protect the environment. The plan acknowledges that hazard mitigation is an important priority and consideration during the rebuilding process.

### **Jurisdiction-Specific Natural Hazard Event History**

The information provided below was solicited from the jurisdiction and supported by NOAA and other relevant data sources.

The *Natural Hazard Events Table* lists all past occurrences of natural hazards within the jurisdiction. Repetitive flood loss records are as follows:

- Number of FEMA-Identified Repetitive Loss Properties: 0
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

#### **Federal Disasters Declared**

Disaster Declaration Number	Date Declared	Event
DR-227	4/25/1967	Tornado
DR-351	9/4/1972	Flood
DR-373	4/26/1973	Flood
DR-509	6/18/1976	Severe Storm(s)
DR-643	6/30/1981	Severe Storm(s)
DR-776	10/7/1986	Flood
DR-798	8/21/1987	Flood
DR-997	7/9/1993	Flood
DR-1129	7/25/1996	Severe Storm(s)
DR-1188	9/17/1997	Severe Storm(s)
DR-1729	9/25/2007	Severe Storm(s)
DR-1800	10/3/2008	Severe Storm(s)
DR-1935	8/19/2010	Severe Storm(s)
DR-1960	3/17/2011	Snow
EM-3068	1/16/1979	Snow
EM-3134	1/8/1999	Snow
EM-3161	1/17/2001	Snow



EM-3230	9/7/2005	Hurricane – Katrina Evacuation
EM-3435	3/13/2020	Biological
DR-4116	5/10/2013	Flood
DR-4489	3/26/2020	Biological
DR-4728	8/15/2023	Severe Storm(s)
DR-4749	11/20/2023	Flood

### State Disaster Declarations

Date Declared	Event
7/26/2010	Severe Storms, High Winds, Torrential Rain
1/31/2011	Winter Weather
4/25/2011 5/25/2011	High Wind, Tornadoes, Torrential Rain
4/18/2013 4/20/2013 4/21/2013 4/25/2013 4/30/2013	Severe Storms, Heavy Rainfall, Flooding, Straight-line Winds
1/6/2014	Heavy Snowfall, Frigid Temperatures
7/12/2017 7/14/2017	Thunderstorms, Heavy Rainfall, Flooding
1/29/2019	Winter Storm
2/6/2020	Severe Storms
3/12/2020 – present (reissued monthly)	COVID-19
2/16/2021	Winter Storms
2/1/2022	Winter Storms
8/1/2022 (reissued monthly through 10/28/2022)	Monkeypox

TABLE: NATURAL HAZARD EVENTS			
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment/ Event Narrative
Severe Weather	-	5/2/2018	\$100,000 in property damage.
Hail	-	5/2/2018	-
Tornado	-	5/26/2015	\$10,000 in property damage.
Flash Flood	-	6/30/2014	-
Severe Storms	DR-4116	2013	-
Severe winter Storms	DR-1960	2011	-
Severe Storms/ Flooding	DR-1953	2010	-
Severe Storms/ Flooding	DR-1800	2008	-

Severe storm/ flooding	DR-1729	2007	-
Severe Winter Storm	EM-3161	2000	-
Winter Snow Storm	EM-3134	1999	-
Flooding	DR-1188	1997	-
Flooding	DR-1129	1996	-
Severe Storms/ Flooding	DR-997	1993	-
Severe Storms/ Flooding	DR-798	1987	-
Severe Storms/ Flooding	DR-776	1986	-

### **Jurisdiction-Specific Hazards: Vulnerabilities and Impacts**

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2024 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 impacts of dam/levee failure do not apply to the Village.

**Drought:** We have many grass areas, and we also deliver water to multiple communities, as their drinking source for fresh water. Climate may exacerbate droughts.

**Flood:** Previously, the Village of McCook has experienced house flooding. We have the Des Plaines River and the Canal in our area. We have low-lying areas in our jurisdiction that flood always and businesses that are near retention ponds that keep backing up and flooding into the roadway. Residential areas have an aged population and cannot evacuate on their own due to flooding issues.

**Extreme Cold:** The village recognizes that many of its citizens, especially the elderly (which is a high percentage of the population with [24.6% being over 62 years old](#)) will need help during an extended cold snap, especially if power outages occur.

**Extreme Heat:** Previously, the Village had to make sure its citizens were hydrated and moved to a safe zone for cooling during extreme heat events.

**Fog:** Citizens of the Village have been unable to see when fog is less than 20 feet, causing accidents.

**High Winds:** High winds have destroyed companies' roofing and siding and led to downed trees and thrown citizens.

**Earthquake:** While no earthquake has impacted the area, the area wants to prepare given the potential impact. There is a fault line within reach of being felt if one were to occur. We have a chemical plant in town that is not earthquake-ready. There is also a quarry that has weakened roads around buildings.

**Severe Weather:** Yes, we have these incidents yearly happen in our area. Severe weather is occurring more and more each year and has caused damage to homes in villages and businesses. Surge protection is needed for internal systems. The water plant needs protection.

**Tornado:** We were hit by a tornado last July. Buildings in town are aged, weak, and susceptible to collapse, which occurred when we were hit by a tornado in July 2023 that was an EF-1 rated Tornado.

**Severe Winter Weather:** Yes, we have multiple winter storms each year. Each year, severe winter weather has been increasing and is affecting businesses with water leakage and causing flooding.

**Wildfire (Wildfire Smoke):** We do have Forest Preserves around our area. With the older community, we have respiratory issues in them and the wildfire smoke in the summer from wildfires around us gets dense and affects people's help in elderly and other respiratory issues.

Indicator	Number	Percent
Families in poverty	72	9.3%
People with disabilities	349	10.9%
People over 65 years	684	21.3%
People under 5 years	161	5%
People of color	1,273	39.7%
Black	81	2.5%
Native American	2	0.1%
Hispanic	1,170	36.5%
Difficulty with English	171	5.6%
Households with no car	68	5.2%
Mobile homes	526	39.8%

Data are from the U.S. Census Bureau, American Community Survey. See methods for more information.

The community evaluated whether vulnerability, and subsequently the potential impacts, in hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics were taken into consideration when assessing development trends.

#### Jurisdiction-Specific Climate Change Vulnerability and Impacts

The table below outlines if climate change, as assessed by the local planning team, has increased or decreased the municipality's vulnerability/exposure, and thereby the potential impacts, to each natural hazard over the past five (5) years (**Current Vulnerability**), and the effect of climate change in the future probability of occurrence and impacts (**Future Vulnerability**) from each natural hazard.

Hazard	Vulnerability
<b>Current Vulnerability</b>	
Dam and Levee Failure	Not Applicable
Drought	Unknown
Earthquake	Unknown
Flood (Riverine, Urban, Shoreline)	Unknown
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Remained the Same
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Remained the Same
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
<b>Future Vulnerability</b>	
Dam and Levee Failure	Not Applicable
Drought	Unknown
Earthquake	Unknown
Flood (Riverine, Urban, Shoreline)	Unknown

Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Unknown
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Unknown
Tornado	Unknown
Wildfire (Wildfire Smoke)	Unknown

### **Jurisdiction-Specific Changes (or Expected Changes) in Development Trends in Hazard-Prone Areas**

The table below outlines if development, as assessed by the local planning team, over the past five (5) years (**Current Vulnerability**) has increased or decreased the jurisdiction's vulnerability/exposure, and thereby the potential impacts, to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts (**Future Vulnerability**) from these natural hazards.

Hazard	Vulnerability
<b>Current Vulnerability</b>	
Dam and Levee Failure	Not Applicable
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Remained the Same
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Remained the Same
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Remained the Same
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
<b>Future Vulnerability</b>	
Dam and Levee Failure	Not Applicable
Drought	No Change is Anticipated
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	No Change is Anticipated
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	No Change is Anticipated
Tornado	No Change is Anticipated
Wildfire (Wildfire Smoke)	No Change is Anticipated

Our community anticipates that the following developments and future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan:

- Construction of multiple new commercial/industrial buildings. We have had over 90 acres of land redeveloped into commercial structures that range in size from 200,000 to 1,000,000 square feet buildings.
- We have 140-plus acres of new land to be developed also very soon.
- We have a new four-story hotel that is going to be built.

- Retention ponds need to be made and maintained to handle water runoff from heavy rains and severe storms that bring flooding to our area.

Future major assets & applicable hazards include:

- Redevelopment of land with construction of new large commercial/industrial buildings.
- We have a chemical plant in our town that has many highly toxic chemicals, and their building is very susceptible to storm damage from severe weather, flooding, cold, and all hazards.
- We have multiple buildings that house 100,000 pounds of ammonia and are susceptible to all hazards.
- We need to protect the water department building, as it delivers water to our town and the area around us as we give them their drinking water.

## Hazard Risk Ranking

The *Hazard Risk Ranking Table* below presents the ranking of the hazards of concern. Hazard area extent and location maps are included at the end of this chapter. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes.

<b>TABLE: HAZARD RISK RANKING</b>	
<b>Rank</b>	<b>Hazard Type</b>
1	Severe Weather
2	Severe Winter Weather
3	Flood
4	Tornado
5	Earthquake
6	Dam Failure
7	Drought

## New Mitigation Actions

The following are new mitigation actions created during the 2024 update.

### Action M-4.14

Mitigation Action #14: Flooding mitigation for retention ponds					
<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/ Organizations:</b> State and Federal Agencies	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> Hazard Mitigation Grant Program (HMGP) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Flood (Riverine, Urban, Coastal/Shoreline) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)
<b>Year Initiated</b>		2025			
<b>Applicable Jurisdiction</b>		Village of McCook			
<b>Applicable Goal</b>		1,2,3,4,5,6			
<b>Applicable Objective</b>		All			
<b>Cost Analysis (Low, Medium, High)</b>		Medium			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		High			

<b>Action/Implementation Plan and Project Description:</b>	Flooding mitigation for retention ponds. Clean them up to help with the issue of flooding.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	N

## Ongoing Mitigation Actions

During the 2024 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

### Action M-4.1

Mitigation Action #1: Where appropriate, support retrofitting, purchasing, or relocating structures in hazard-prone areas to prevent future damage. Give priority to properties with exposure to repetitive losses.					
<b>Lead Agency/Department Organization:</b> Village of McCook Public Works	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> BRIC, HMGP	<b>Estimated Projected Completion Date:</b> Long-term (depending on funding)	<b>Hazard(s) Mitigated:</b> All Hazards
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of McCook				
<b>Applicable Goal</b>	2				
<b>Applicable Objective</b>	7, 13				
<b>Cost Analysis (Low, Medium, High)</b>	High				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				

<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium
<b>Action/Implementation Plan and Project Description:</b>	
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O

**Action M-4.2**

<b>Mitigation Action #2: Continue to support the countywide actions identified in this plan</b>					
<b>Lead Agency/Department Organization:</b> Village of McCook Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short- and Long-term	<b>Hazard(s) Mitigated:</b> All Hazards
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of McCook				
<b>Applicable Goal</b>	1,2,3,4,5,6				
<b>Applicable Objective</b>	All				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				
<b>Action/Implementation Plan and Project Description:</b>					



<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O

**Action M-4.3**

<b>Mitigation Action #3: Actively participate in the plan maintenance strategy identified in this plan.</b>					
<b>Lead Agency/Department Organization:</b> EMRS, Village of McCook Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> All Hazards
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of McCook Public Works				
<b>Applicable Goal</b>	2,3				
<b>Applicable Objective</b>	3, 4, 6				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	O				

<b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	
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**Action M-4.4**

<b>Mitigation Action #4: Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.</b>					
<b>Lead Agency/Department Organization:</b> Village of McCook Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> All Hazards
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of McCook				
<b>Applicable Goal</b>	2,4				
<b>Applicable Objective</b>	3, 4, 5, 6, 7, 9,10, 11, 13				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O				

## Action M-4.5

Mitigation Action #5: 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>Lead Agency/Department Organization:</b> Village of McCook Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term and ongoing	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of McCook			
<b>Applicable Goal</b>		2,3,4			
<b>Applicable Objective</b>		4, 6, 9			
<b>Cost Analysis (Low, Medium, High)</b>		Low			
<b>Priority and Level of Importance (Low, Medium, High)</b>		High			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		O			

## Action M-4.6

Mitigation Action #6: Where feasible, implement a program to record high water marks following high water events.					
<b>Lead Agency/Department Organization:</b> Village of McCook Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund; FEMA Public Assistance (PA)	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of McCook				
<b>Applicable Goal</b>	2,3				
<b>Applicable Objective</b>	3, 6, 9				
<b>Cost Analysis (Low, Medium, High)</b>	Medium				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O				

## Action M-4.7

Mitigation Action #7: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
<b>Lead Agency/Department Organization:</b> Engineering Department	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> All Hazards
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of McCook			
<b>Applicable Goal</b>		2,3,4			
<b>Applicable Objective</b>		3, 4, 6, 10, 13			
<b>Cost Analysis (Low, Medium, High)</b>		Low			
<b>Priority and Level of Importance (Low, Medium, High)</b>		High			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		O			

## Action M-4.8

<b>Mitigation Action #8: Consider developing and implementing a Capital Improvements Program (CIP) to increase the Village's regulatory, financial, and technical capability to implement mitigation actions.</b>
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<b>Lead Agency/Department Organization:</b> Village of McCook Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> CIP component of the general fund (if implemented)	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> All Hazards
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of McCook			
<b>Applicable Goal</b>		1			
<b>Applicable Objective</b>		1, 2, 7			
<b>Cost Analysis (Low, Medium, High)</b>		High			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		High			
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		O			

#### Action M-4.9

Mitigation Action #9: Maintain reverse 911 to notify residents and business					
<b>Lead Agency/Department Organization:</b>	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b>	<b>Estimated Projected Completion Date:</b>	<b>Hazard(s) Mitigated:</b> All Hazards

Village of McCook Administration			General Fund	Ongoing	
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of McCook				
<b>Applicable Goal</b>	2				
<b>Applicable Objective</b>	5, 6				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High				
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O				

**Action M-4.10**

<b>Mitigation Action #10: Create a plan to assist residents during an extreme cold incident.</b>					
<b>Lead Agency/Department Organization:</b> Fire Department	<b>Supporting Agencies/ Organizations:</b> Police	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Snow, Blizzard, Extreme Cold, Ice Storms
<b>Year Initiated</b>	2019				
<b>Applicable Jurisdiction</b>	Village of McCook				

<b>Applicable Goal</b>	1,2,3,4,5,6
<b>Applicable Objective</b>	10
<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>Priority and Level of Importance (Low, Medium, High)</b>	Low
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	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. Help residents.
<b>Action/Implementation Plan and Project Description:</b>	What all village entities have to do to help each other.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O

**Action M-4.11**

<b>Mitigation Action #11: Create an all-hazards plan for the city, including Floods, Earthquakes, Snow, blizzards, Extreme Cold, Ice Storms, Tornadoes, Extreme Heat, Lightning, Hail, Fog, and High Winds.</b>					
<b>Lead Agency/Department Organization:</b> Fire	<b>Supporting Agencies/ Organizations:</b> Police	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Earthquake, Flood, Extreme Heat, Lightning, Hail, Fog, High Wind, High Wind,



					Blizzard, Extreme Cold, Ice Storms, Tornado, Epidemic or pandemic
<b>Year Initiated</b>	2019				
<b>Applicable Jurisdiction</b>	Village of McCook				
<b>Applicable Goal</b>	1,2,3,4,5,6				
<b>Applicable Objective</b>	1				
<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>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	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>Action/Implementation Plan and Project Description:</b>	We will do our best to try and make everyone safe.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O				

## Action M-4.12

Mitigation Action #12: Create a safe zone plan and identify facilities and modes of pick up during snow, blizzard, cold, and ice storms					
<b>Lead Agency/Department Organization:</b> Fire Department	<b>Supporting Agencies/ Organizations:</b> Fire Department, Police, Water, DPW	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> HMGP, BRIC	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Snow, Blizzard, Extreme Cold, Ice Storms
<b>Year Initiated</b>		2019			
<b>Applicable Jurisdiction</b>		Village of McCook			
<b>Applicable Goal</b>		1,2,3,4,5,6			
<b>Applicable Objective</b>		1			
<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>Priority and Level of Importance (Low, Medium, High)</b>		Low			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Low—Long-term benefits of the project are difficult to quantify in the short term.			
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed		O			

## Action M-4.13

Mitigation Action #13: Implement the Plainfield Road from Willow Springs to East Avenue Flood Control					
<b>Lead Agency/Department Organization:</b> MWRD	<b>Supporting Agencies/ Organizations:</b> Village of McCook Administration	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> MWRD	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>	2019				
<b>Applicable Jurisdiction</b>	Village of McCook				
<b>Applicable Goal</b>	1,2,3				
<b>Applicable Objective</b>	2, 3, 12, 13				
<b>Cost Analysis (Low, Medium, High)</b>	High				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High				
<b>Action/Implementation Plan and Project Description:</b>	ID: CCDTH 4 Contract: 14-112-5C Watershed: Lower Des Plaines Location: LaGrange; Countryside; McCook; and Lyons Township, IL May include construction of a new trunk sewer along portions of Plainfield Road, 55th Street and East Avenue and stormwater improvements to the McCook Ditch, McCook Ditch Overflow, and McCook Levee.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <b>N</b> = New; <b>I</b> = In Progress Toward Completion; <b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	O				

## Completed Actions

**Completed Mitigation Actions - An archive of all identified and completed projects, including completed actions since 2014.**

Completed Action Items
No completed items at this time.

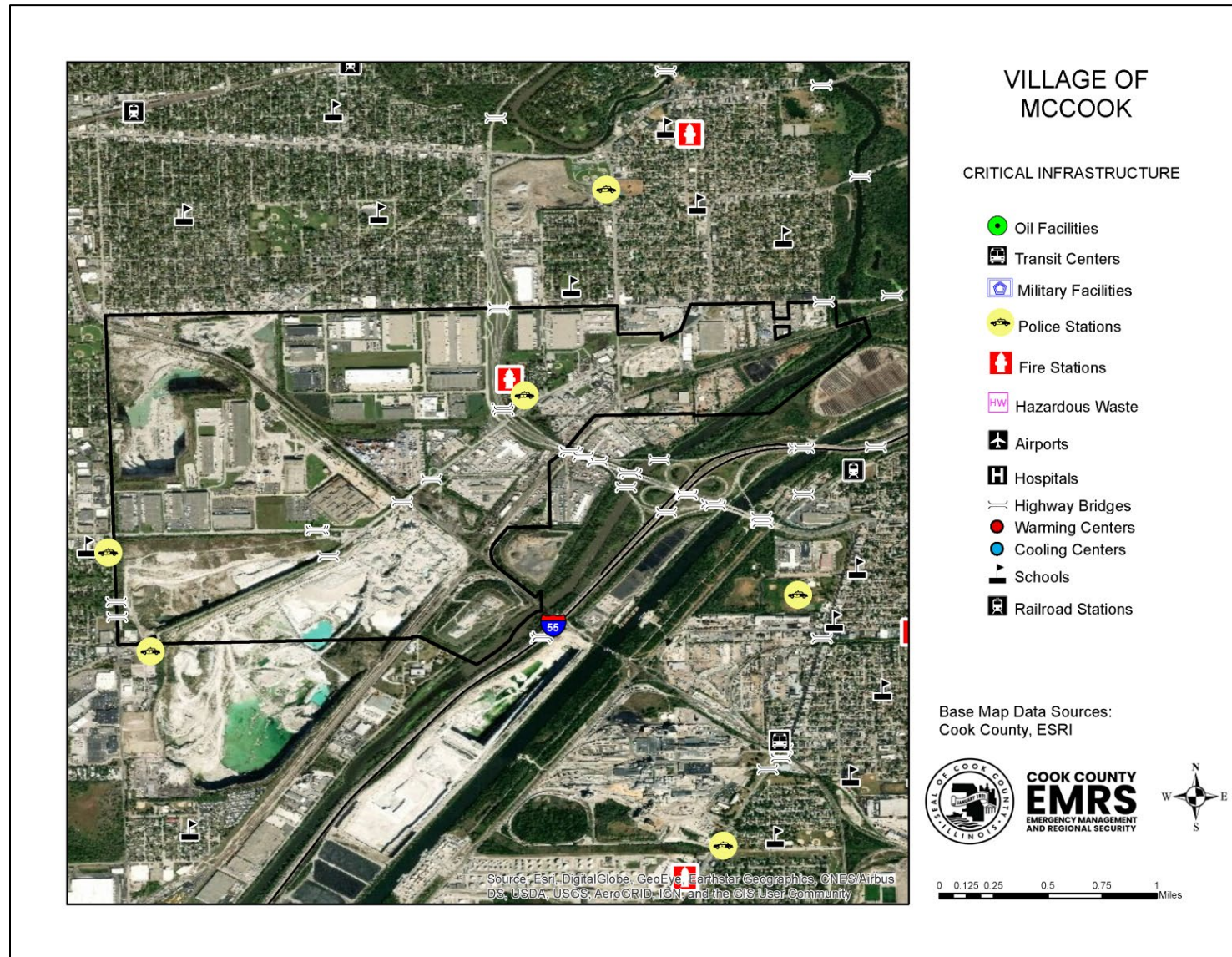
## Future Needs to Better Understand Risk/Vulnerability

Examples of future needs include, but are not limited to, receiving training to understand the mitigation grant application process better, and studies that may be needed to realize hazards/risks better, etc.

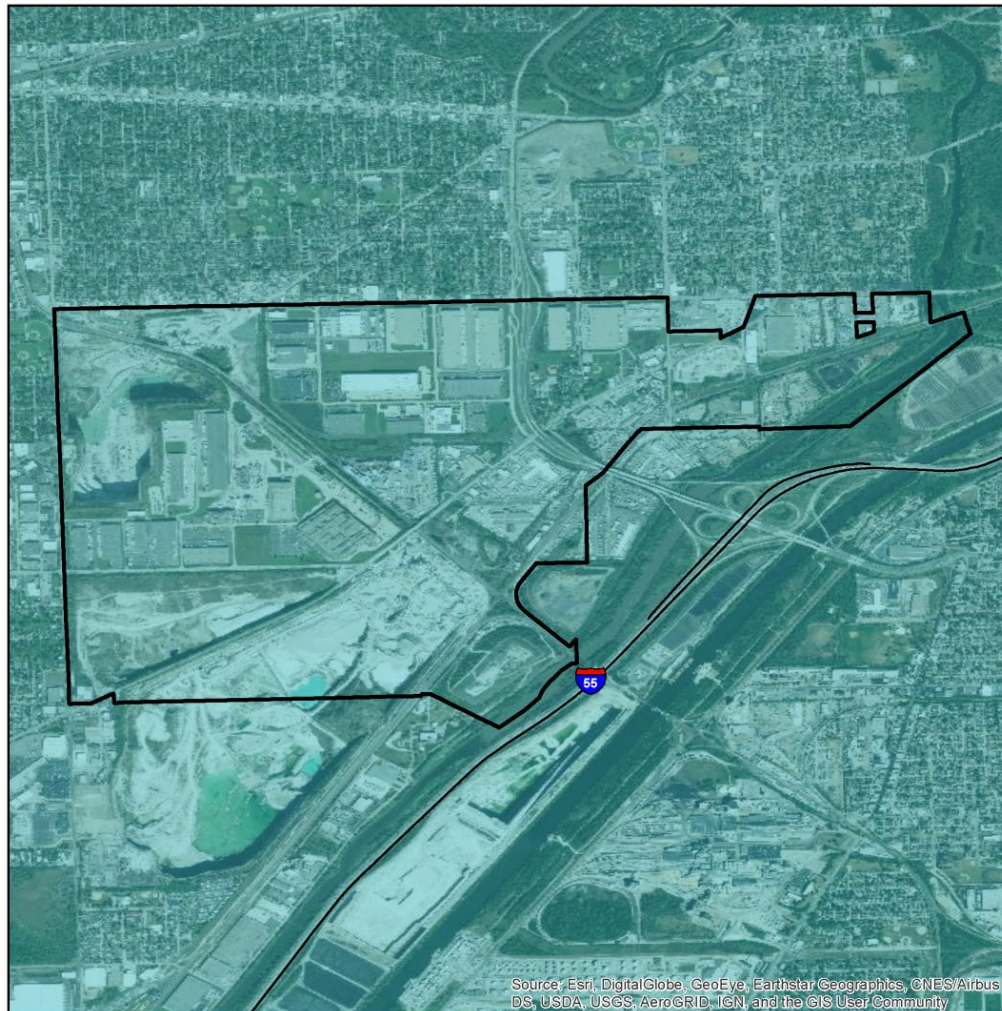
## Additional Comments

No additional comments at this time.

## Hazard Mapping







Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

## VILLAGE OF MCCOOK

### PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

#### Mercalli Scale, Potential Shaking

II-III Weak

Data provided by the USGS Earthquake Hazards Program and Cook County.

Probabilistic seismic-hazard maps were prepared for the conterminous United States for 2014 portraying peak horizontal acceleration and horizontal spectral response acceleration for 0.2- and 1.0-second periods with probabilities of exceedance of 10 percent in 50 years and 2 percent in 50 years. All of the maps were prepared by combining the hazard derived from spatially smoothed historical seismicity with the hazard from fault-specific sources. The acceleration values contoured are the random horizontal component. The reference site condition is firm rock, defined as having an average shear-wave velocity of 780 m/s in the top 30 meters corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction program) site classes B and C.

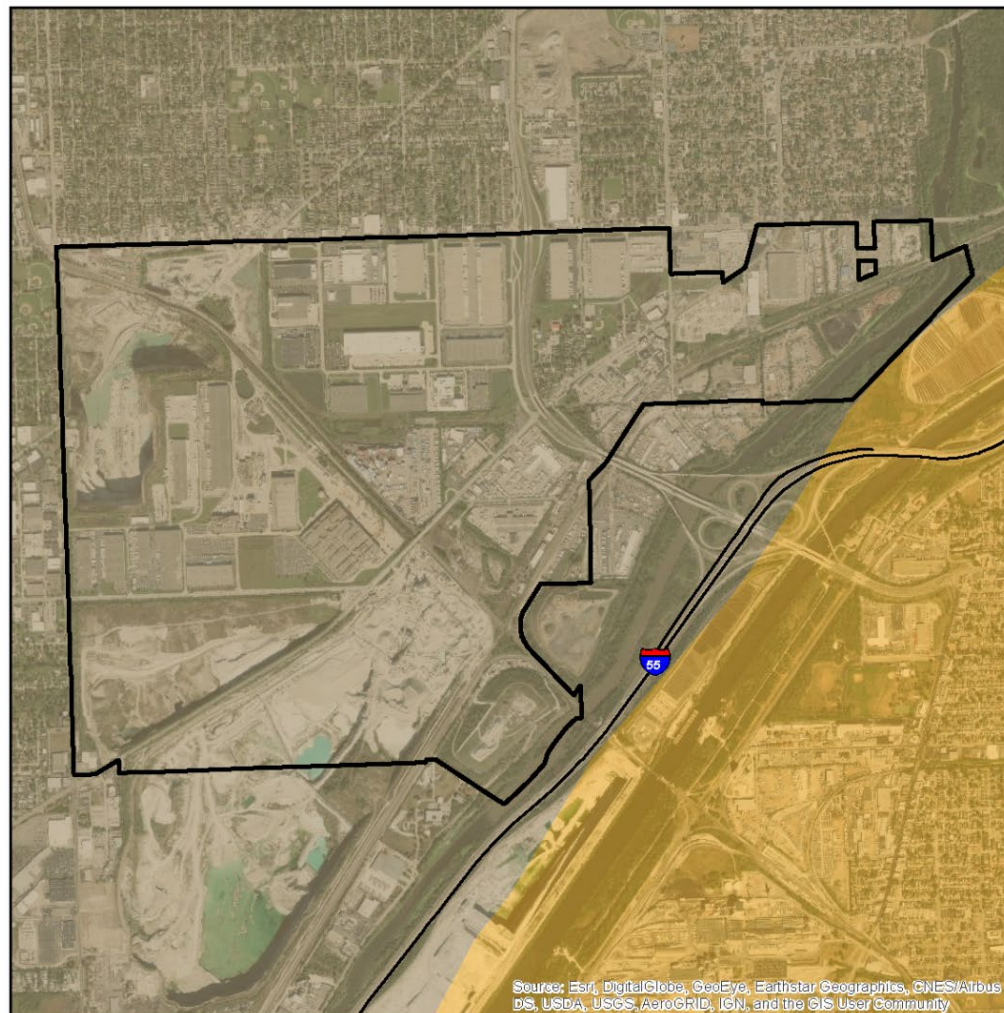
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0 0.125 0.25 0.5 0.75 1 Miles



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

## VILLAGE OF MCCOOK

### NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

#### TYPE

- C - Very Dense Soil, Soft Rock
- D - Stiff Soil
- F - Site Specific Evaluation

Data provided by the Illinois State Geological Survey and Cook County.

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series I-2769 Map of Surficial Deposits and Materials in the Eastern and Central United States (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplification.

The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notice. Cook County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. Cook County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of Cook County.



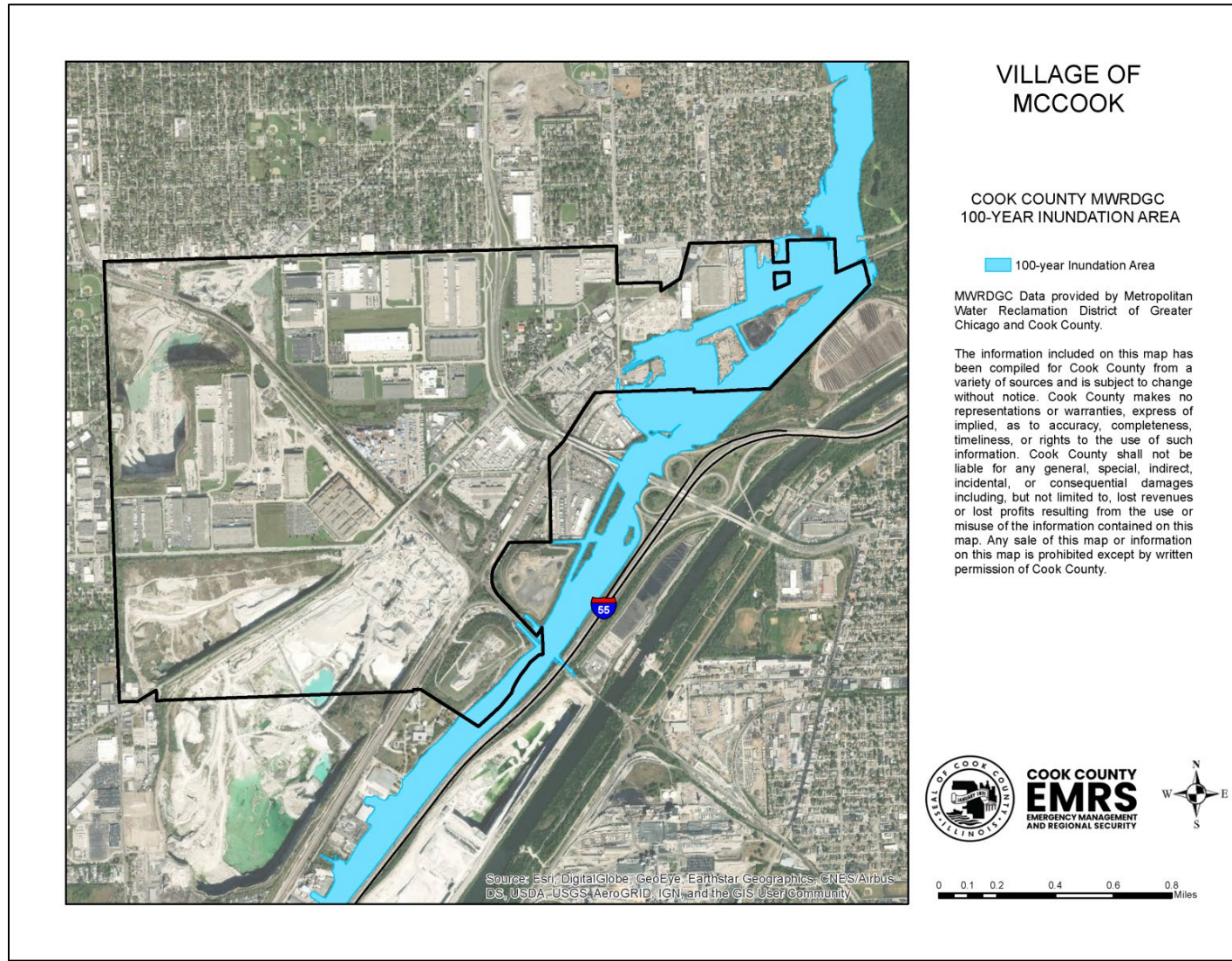
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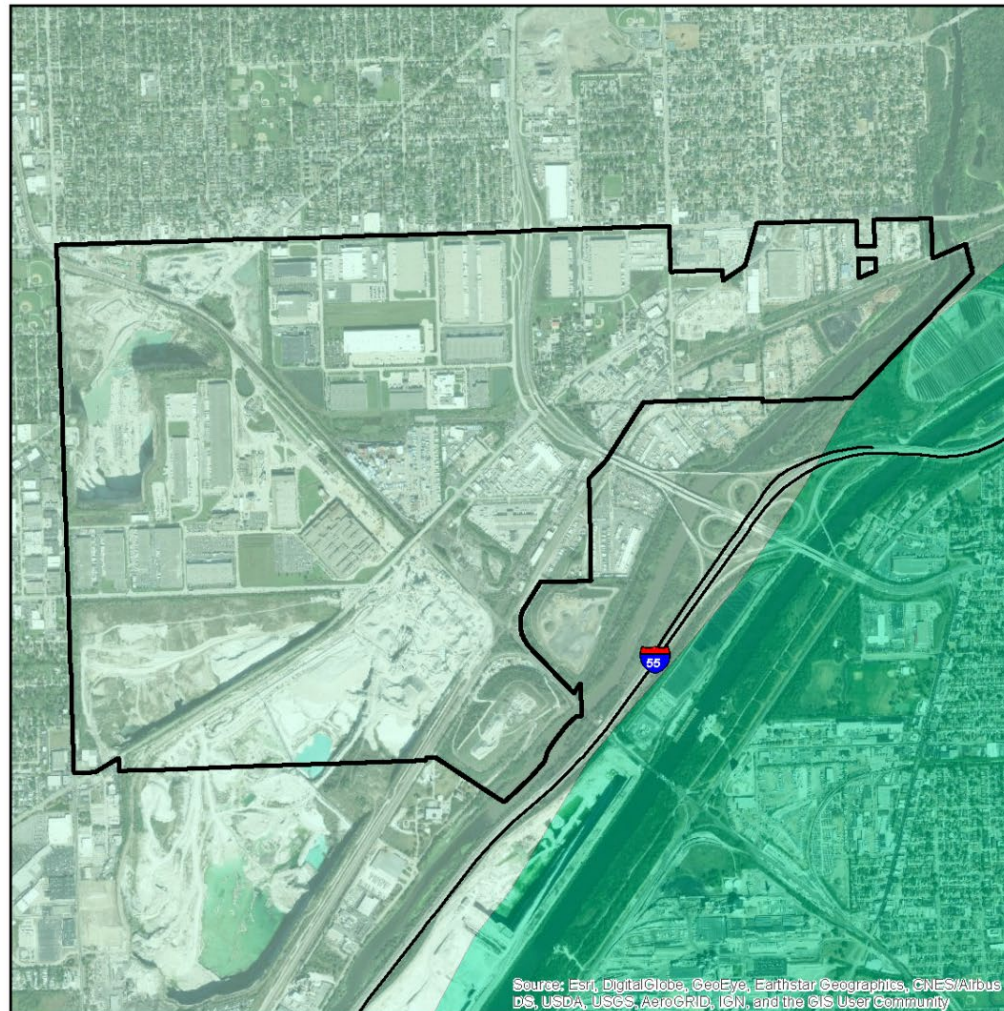
0 0.1 0.2 0.4 0.6 0.8 Miles



DISCLAIMER: The Cook County MWRDGC 100-year Inundation Map is provided to show general flood risk information regarding floodplains and inundation areas. This map is not regulatory. Official FEMA Flood Insurance Study information and regulatory maps can be obtained from <http://www.fema.gov>.







Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

## VILLAGE OF MCCOOK

### LIQUEFACTION SUSCEPTIBILITY

#### LIQUEFACTION SUSCEPTIBILITY

- high
- low
- very low

Data provided by the Illinois State Geological Survey and Cook County.

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series I-2769 Map of Surficial Deposits and Materials in the Eastern and Central United States (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplification.

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0 0.1 0.2 0.4 0.6 0.8 Miles





## VILLAGE OF MCCOOK

100- AND 500- YEAR  
TORNADO EVENTS

### Magnitude

- 4 (100 year event)
- 5 (500 year event)

Historic tornado data provided by NOAA/NWS showing the initial points and paths of all F4 and F5 events observed from 1950 to 2017.



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0 0.1 0.2 0.4 0.6 0.8 Miles