

## Mount Prospect

### Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate 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:** 1917

**Current Population:** The 2020 U.S. Census population was 56,852. The 2022 U.S. Census estimate indicated the population was 54,843.

**Population Growth:** The overall population has increased by 1.19% between 2018 and 2022.

**Location and Description:** The Village of Mount Prospect is a suburb 22 miles northwest from downtown Chicago. It is bordered by Prospect Heights to the north, I-90 and Elk Grove Village to the south, Des Plaines to the east and Arlington Heights to the west. The center of town is at the intersection of US Route 14 and Illinois Route 83. The Union Pacific Northwest rail lines run through the center of town. There is a Metra train station at 11 E Northwest Hwy. Mount Prospect has a land area of 10.37 square miles.

**Brief History:** The original inhabitants of the area that encompasses Mount Prospect today were Native Americans. Yankees were the first American settlers to the area, but they were the second group. German immigrants had the most significant impact in terms of population and cultural traditions. In 1850, the train rolled into town. This led to an increasing specialization in the farming community. Not long after the train station was built, others began building stores and houses downtown and made the Village of Mount Prospect come to life. In 1917, Mount Prospect reached a population of 300 and was incorporated. From there, the largest growth came during land speculations in the 1920s and then the suburban movements that followed World War II. The baby boom expanded the population and the Village began expanding the services it offered. In the early 1960s, the business community in Mount Prospect took a leap forward with the construction of Randhurst, the first indoor air-conditioned mall in the upper Midwest. Another major event was the development of Kensington Business Center, which has been the home to national and international

firms including NTN Bearing, Searle, Braun Manufacturing Cummins-Allison Corp., and ITT Technical Institute. In the 1990s and 2000s attention was turned to downtown redevelopment.

**Climate:** Mount Prospect's climate is typical of suburban Chicago and the Midwest in general. Average rainfall is 32 inches per year and average snowfall is 24 inches. The average year round temperature is 48.2 degrees. In July the average high temperature is 83 degrees and in January the average low temperature is 11 degrees. The average humidity is 72.27%

**Governing Body Format:** The Village of Mount Prospect is governed by a Village President and a 6 member Board of Trustees. This body will assume the responsibility for the adoption and implementation of this plan. The Village consists of six departments: Community Development, Finance, Human Services, Fire, Police and Public Works. The Village has 12 committees and commissions that report to the Village Board.

**Development Trends:** The Village continues to see significant development activity in the commercial sector including the recent redevelopment of Randhurst Village (1,000,000 square foot regional center), expansion efforts by national retailers such as Walmart and Menards, and the refurbishing of Mount Prospect Plaza (300,000 square feet). The industrial/office sector has not increased development but United Airlines and CVS/Caremark recently constructed two large facilities in the Village. UAL constructed a 200,000 square foot data center that will serve their entire international operations. CVS occupied a 175,000 square foot facility to operate their mail order prescription services. After a 5-year lull in residential construction activity, the Village has issued permits for two multi-family projects in the downtown district. In addition, a 92-unit senior independent living facility is under construction and is scheduled to be complete by mid-2014. As of 2019, there are many current projects in Mount Prospect including 2 senior housing developments, gas station, industrial and commercial development, rowhomes and luxury apartments.

**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 *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	Chapter 21, 2013

Zonings	Yes	No	No	Yes	Chapter 14, 1993
Subdivisions	Yes	No	No	No	Chapter 15, 2002
Stormwater Management	Yes	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Chapter 16, 2002
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	Yes	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act. Chapter 8, 2001
Growth Management	No	No	No	No	
Site Plan Review	Yes	No	No	No	Chapter 15, 2002
Public Health and Safety	Yes	No	No	No	Chapter 19, 1957
Environmental Protection	Yes	No	No	No	Chapter 16, 2002
<b>Planning Documents</b>					
General or Comprehensive Plan	Yes	No	No	No	
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					Yes, plan include land use and redevelopment components.
Floodplain or Basin Plan	Yes	No	No	No	9/20/2011
Stormwater Plan	Yes	No	Yes	No	Regional stormwater impacts are managed by MWRD. The Village lies within the Des Plaines River watershed planning area of MWRD's

					comprehensive Stormwater Master Planning Program 12/9/2006
Capital Improvement Plan	Yes	No	No	No	7/16/13 - 5 year CIP
<i>What types of capital facilities does the plan address?</i>					Water and sanitary sewers, flood control, streets, public buildings and equipment.
<i>How often is the plan revised/updated?</i>					Annually
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. 6/5/07
Shoreline Management Plan	No	No	No	No	
<b>Response/Recovery Planning</b>					
Comprehensive Emergency Management Plan	No	No	Yes	Yes	Cook County EMRS
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	No	No	Yes	Yes	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	No	No	Yes	No	Cook County DPH

**TABLE: FISCAL CAPABILITY**

<b>Financial Resources</b>	<b>Accessible or Eligible to Use?</b>
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
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

**TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY**

<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	Community Development/ Director Public Works/ Village Engineer
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works/ Village Engineer Community Development/ Building Commissioner
Planners or engineers with an understanding of natural hazards	Yes	Public Works/ Village Engineer
Staff with training in benefit/cost analysis	Yes	Finance Department/Director
Surveyors	No	
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Fire Department/ Fire Chief
Grant writers	Yes	Community Development/ Director

**TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE**

What department is responsible for floodplain management in your jurisdiction?	Public Works
Who is your jurisdiction's floodplain administrator? (department/position)	Public Works/Village Engineer
Are any certified floodplain managers on staff in your jurisdiction?	No

What is the date of adoption of your flood damage prevention ordinance?	5/21/02, updated 9/20/11
When was the most recent Community Assistance Visit or Community Assistance Contact?	3/30/1999
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?	Yes/ No

### **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 afterwards 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.

The following are NFIP-related activities completed by our community:

- Our staff provide the following services: permit reviews, GIS, inspections, engineering capability.
- My community teaches property owners or other stakeholders about the importance of flood insurance through public outreach events, workshops, and/or seminars.
- Our community enforces local floodplain regulations and monitors compliance.
- Our floodplain development regulations meet or exceed Federal Emergency Management Agency (FEMA) or State minimum requirements.
- Mount Prospect holds an Emergency Management expo to discuss flood insurance on an annual basis.

### **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 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:*

22-102 Definitions

**SUBSTANTIAL IMPROVEMENT:** Any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds fifty percent (50%) of the market value of the structure either: a) before the improvement or repair is started, or b) if the structure has been damaged and is being restored, before the damage occurred. This term includes structures which were damaged whereby the cost of restoring the structure to its predamaged condition would equal or exceed fifty percent (50%) of the market value before the damage occurred, regardless of the actual repair work performed. For the purposes of this definition "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 structure. The term does not, however, include either: a) 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 b) any alteration of a "historic structure", provided that the alteration will not preclude the structure's continued designation as a "historic structure". (Ord. 5253, 5-21-2002; amd. Ord. 5620, 4-3-2007; Ord. 5702, 7-15-2008)

22-109 Permitting Requirements Applicable to All Floodplain Areas

In addition to the requirements found in sections [22.106](#), [22.107](#) and [22.108](#) of this article, for development in flood fringes, regulatory floodways, and SFHAs or floodplains where no floodways have been identified (zone A, AO, AH, AE, A1-A30, A99, VO, V1-30, VE, V, M or E) the following requirements shall be met:

C. Protecting Buildings: All buildings located within a 100-year floodplain also known as an SFHA, shall be protected from flood damage below the flood protection elevation. However, existing buildings located within a regulatory floodway shall also meet the more restrictive appropriate use standards included in section [22.107](#) of this article. This building protection criteria applies to the following situation:

Construction or placement of a new building;

Nonconforming structures may remain in use, but shall not be enlarged or substantially improved, unless the improvements include measures to bring the structure into compliance with this article;

Installing a manufactured home on a new site or a new manufactured home on an existing site. This building protection requirement does not apply to returning a mobile home to the same site it lawfully occupied before it was removed to avoid flood damage; and

Installing a travel trailer on a site for more than one hundred eighty (180) days.

This building protection requirement may be met by one of the following methods:

1. A residential or nonresidential building, when allowed, may be constructed on permanent land fill in accordance with the following:

a. The lowest floor, (including basement) shall be a minimum of two feet (2') above the base flood elevation;

b. The fill shall be placed in layers no greater than one foot (1') deep before compaction and should extend at least ten feet (10') beyond the foundation of the building before sloping below the flood protection elevation. The top of the fill shall be above the flood protection elevation. However, the ten foot (10') minimum may be waived if a structural engineer certifies an alternative method to protect the building from damages due to hydrostatic pressures. The fill shall be protected against erosion and scour. The fill shall not adversely affect the flow of surface drainage from or onto neighboring properties. The design of the fill or fill standard must be approved by a registered engineer.

2. A residential or nonresidential building may be elevated in accordance with the following:

a. The building or improvements shall be elevated on crawl space, stilts, piles, walls, or other foundation that is permanently open to floodwaters and not subject to damage by hydrostatic pressures of the base flood or 100-year frequency flood. The permanent openings shall be no more than one foot (1') above grade, and consist of a minimum of two (2) openings. The openings must have a total net area of not less than one square inch for every one square foot of enclosed area subject to flooding below the base flood elevation;

b. The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice and floating debris;

c. All areas below the flood protection elevation shall be constructed of materials resistant to flood damage. The lowest floor (including basement) and all electrical, heating, ventilating, plumbing, and air conditioning equipment and utility meters shall be located a minimum of two feet (2') above the flood protection elevation. Water and sewer pipes, electrical and telephone lines, submersible pumps, and other waterproofed service facilities may be located below the flood protection elevation;

d. The areas below the flood protection elevation may only be used for the parking of vehicles, building access or storage in an area other than a basement.

When the building wall encloses open space that is below the base flood elevation, gravity storm and sanitary sewer connections are specifically prohibited and overhead sewers are required for the sanitary connections and sumps for the storm sewer connections;

e. Manufactured homes shall be anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the rules and regulations for the Illinois mobile home tie down act issued pursuant to 77 Illinois administrative code. In addition, all manufactured homes shall meet the following elevation requirements:

(1) In case of manufactured homes placed or substantially improved: a) outside of manufactured home park or subdivision, b) in a new manufactured home park or subdivision, c) in an expansion to



an existing manufactured home park or subdivision, or d) in an existing manufactured home park or subdivision on which a manufactured home has incurred substantial damage from a flood, the top of the lowest floor shall be elevated to or above the flood protection elevation;

(2) In the case of manufactured homes placed or substantially improved in an existing manufactured home park or subdivision, the manufactured home shall be elevated so that either the top of the lowest floor is above the base flood elevation or the chassis is at least thirty six inches (36") in height above grade and supported by reinforced piers or other foundations of equivalent strength, whichever is less;

Their ordinance did not include substantial damage rule provisions; future updates will consider inclusion of these rules as applicable and as appropriate.

<b>TABLE: COMMUNITY CLASSIFICATIONS</b>			
	<b>Participating?</b>	<b>Classification</b>	<b>Date Classified</b>
Community Rating System	Yes	6	2018
Building Code Effectiveness Grading Schedule	Yes	4/3	2013
Public Protection/ISO	Yes	2	2009
StormReady	Yes	Gold (countywide)	2014
Tree City USA	Yes	N/A	2013

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

At this time, the municipality did not include or identify any opportunities to expand and improve capabilities. Plans will be updated in the future should this change.

### **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 Comprehensive Plan.

#### *Emergency Plan Integration:*

Cook County EMRS is supporting communities to develop and update their respective Emergency Operations Plans, Continuity of Operations Plan/Continuity of Government Plan, and Recovery Plan 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 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 prioritizes 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: 5 (5 Single Family)
- Number of FEMA-Identified Severe Repetitive Loss Properties: 3 (3 Single Family)
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 1

#### **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
Flood		6/9/2018	Storm total rainfall amounts included 5.05 inches 3 miles northeast of Mount Prospect
Hail and Severe Weather	-	7/7/2017	-
Severe Weather	-	6/22/2016	-
Lightning, Hail, and Severe Weather	-	4/9/2015	\$50,000 in property damage. There was also a lightning strike in Mount Prospect that set a

			building on fire the morning of April 9th.
Wind	-	7/19/2013	-
Flood	DR-4116	4/18/2013	\$240,000
Flood	-	7/23/2011	-
Wind	-	7/11/2011	\$380,000
Tornado	-	6/21/2011	-
Winter Storm	DR-1960	2/1/2011	\$200,000
Flood	DR-1800	9/13/2008	-
Flood	-	5/22/2008	-
Flood/Wind	DR-1729	8/23/2007	\$1,210,000
Wind	-	8/1/2003	-
Wind	-	7/21/2003	-
Wind	-	5/11/2003	-
Lightning and Severe Weather		1/22/2002	As the line of thunderstorms moved east into northeast Illinois, a bolt of lightning struck a tree in Mount Prospect. The tree exploded into thousands of pieces, some of which were 3 to 5 feet long. One of these large pieces struck a woman walking her dog. Although she was critically injured, she recovered from her injuries. The flying pieces of the tree broke 3 windows and damaged garage doors and siding.
Wind	-	6/12/2001	-
Winter Storm		12/11/2000	13.5 inches of snow at Mount Prospect
Wind	-	8/6/2000	-
Wind	-	5/18/2000	-
Wind	-	4/10/2000	-
Wind	-	11/10/1998	-
Wind	-	8/24/1998	-
Wind	-	5/28/1998	-
Wind	-	9/29/1997	-
Wind	-	10/29/1996	-
Winter Storm/Snow	-	12/1994	-
Winter Storm/Ice	-	1/1994	-
Wind	-	8/30/1993	-
Wind	-	7/2/1992	-
Wind	-	6/17/1992	-
Flood	-	8/1987	-
Flood	DR-776	10/1986	-

### **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:** Levee 37- Is located along River Rd between Euclid Ave and Palatine Rd. There is the potential for failure of levee wall and pump system. The northeast section of our community is most vulnerable if a failure would occur. Levee 37 protects 300 homes, River Rd., and the surrounding local roads.

**Earthquake:** Mount Prospect has Fuel Tank Farm located north of Oakton St. east of Busse Rd. The tank farm serves Ohare airport and surrounding areas.

**Flood:** We experience localized flooding throughout the Village, especially in the unincorporated subdivision, Forest River, near Kensington and River Roads under the jurisdiction of Cook County and Wheeling Township (but Mount Prospect Fire Dept. responds to emergencies). In particular, the Des Plaines River flooding limits our ability to evacuate and receive resources from the East. Levee 37- Is located along River Rd between Euclid Ave and Palatine Rd. There is the potential for failure of levee wall and pump system. The northeast section of our community is most vulnerable if a failure would occur. Levee 37 protects 300 homes, River Rd., and the surrounding local roads.

**Tornado and High Winds:** Wind events are prevalent in the area and our overhead power lines are vulnerable. Mount Prospect has Fuel Tank Farm located north of Oakton St. east of Busse Rd. The tank farm serves Ohare airport and surrounding areas.

**Snow:** Our overhead power lines are vulnerable. [15.8% of the population is 65 years or older](#) and this population has an increased vulnerability to extreme weather, particularly winter storms.

**Blizzards:** Our overhead power lines are vulnerable.

**Ice Storms:** Our overhead power lines are vulnerable.

**Severe Weather:** Mount Prospect has Fuel Tank Farm located north of Oakton St. east of Busse Rd. The tank farm serves Ohare airport and surrounding areas.

**Severe Winter Weather:** Mount Prospect has Fuel Tank Farm located north of Oakton St. east of Busse Rd. The tank farm serves Ohare airport and surrounding areas.

Indicator	Number	Percent
Families in poverty	931	3.7%
People with disabilities	9,214	9.9%
People over 65 years	17,647	18.9%
People under 5 years	6,493	6.9%
People of color	31,705	33.9%
Black	3,387	3.6%
Native American	457	0.5%
Hispanic	13,865	14.8%
Difficulty with English	6,550	7.5%
Households with no car	1,705	4.6%
Mobile homes	351	1%

*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.

Future studies are needed to better understand the impact of climate change on the community's assets.

Hazard	Vulnerability
<b>Current Vulnerability</b>	
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Remained the Same
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increased
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Increased
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
<b>Future Vulnerability</b>	
Dam and Levee Failure	No Change is Anticipated
Drought	No Change is Anticipated
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	Increase
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increase
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Increase
Tornado	Increase
Wildfire (Wildfire Smoke)	No Change is Anticipated

### **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	Remained the Same
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	No Change is Anticipated
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

There has been an increase population in our downtown area exposed or vulnerable to natural hazards.

## 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>	
Rank	Hazard Type
1	Severe Weather
2	Severe Winter Weather
3	Earthquake
4	Tornado
5	Flood
6	Drought
7	Dam Failure

## New Mitigation Actions

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

### Action M-9.24

Mitigation Action #24: Develop an updated storm water master plan in order to identify flood prone areas and possible mitigation projects.					
<b>Lead Agency/Department Organization:</b> 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> Flood (Riverine, Urban, Coastal/Shoreline)
<b>Year Initiated</b>		2024			
<b>Applicable Jurisdiction</b>		Mount Prospect			
<b>Applicable Goal</b>		1,4,5,6			
<b>Applicable Objective</b>		3,4,5,6,10			
<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)		Low			
<b>Action/Implementation Plan and Project Description:</b>		Develop an updated storm water master plan in order to identify flood prone areas and possible mitigation projects.			
<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		N			



## Action M-9.25

Mitigation Action #25: Yearly maintenance and upkeep for village sirens.					
<b>Lead Agency/Department Organization:</b> Fire Department	<b>Supporting Agencies/ Organizations:</b> Emergency Management	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Tornado
<b>Year Initiated</b>		2024			
<b>Applicable Jurisdiction</b>		Mount Prospect			
<b>Applicable Goal</b>		2,4			
<b>Applicable Objective</b>		1,5			
<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>		Yearly maintenance and upkeep for village sirens.			
<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-9.1

Mitigation Action #1: 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 Mount Prospect 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 Mount Prospect			
<b>Applicable Goal</b>		2,3			
<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>		The Village continues to implement programs.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed;		O			

<b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed	
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**Action M-9.2**

<b>Mitigation Action #2: Continue to maintain or enhance the Village's CRS Classification.</b>					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect 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> Ongoing	<b>Hazard(s) Mitigated:</b> All Hazards
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		2			
<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>		High			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium			
<b>Action/Implementation Plan and Project Description:</b>		The Village submitted documentation at the 5 year cycle recertification visit. Improved to Class 6 Rating.			
<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-9.5

Mitigation Action #5: Continue Creek Bank Stabilization Program.					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> \$25,000; Low	<b>Potential Funding Source:</b> HMGP, BRIC, FMA	<b>Estimated Projected Completion Date:</b> Short-term Ongoing	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		2,3			
<b>Applicable Objective</b>		1, 2, 9, 12			
<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>		The Village continues a yearly creek bank stabilization program			
<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-9.6

Mitigation Action #6: Continue Creek Tree Trimming Program.					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> \$25,000; Low	<b>Potential Funding Source:</b> BRIC, FMA, HMGP	<b>Estimated Projected Completion Date:</b> Short-term Ongoing	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather, Tornado
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		2,3			
<b>Applicable Objective</b>		1, 2, 9, 12			
<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>		The Village continues a yearly tree trimming program.			
<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-9.7

Mitigation Action #7: Continue yearly Creek Inspection Program.					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> BRIC, FMA, HMGP	<b>Estimated Projected Completion Date:</b> Short-term Ongoing	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		2,3			
<b>Applicable Objective</b>		1, 2, 9, 12			
<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>		The Village continues a yearly creek inspection program.			
<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-9.8

Mitigation Action #8: Continue yearly Detention Pond Maintenance Program.					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> \$100,000; Low	<b>Potential Funding Source:</b> BRIC, FMA, HMGP	<b>Estimated Projected Completion Date:</b> Short-term Ongoing	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		2,3			
<b>Applicable Objective</b>		1, 2, 9, 12			
<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>		The Village continues a yearly detention pond maintenance program.			
<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-9.10

Mitigation Action #10: Develop a Debris Management Plan.					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect 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 Ongoing	<b>Hazard(s) Mitigated:</b> Multi-Hazard
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		1			
<b>Applicable Objective</b>		1			
<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)		Low			
<b>Action/Implementation Plan and Project Description:</b>		The Village created a storm debris management for trees and tree branches following storm events and is working with ARC to include debris cleanup following an emergency event.			
<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-9.11

Mitigation Action #11: Continue providing a Community Preparedness Guide annually on the Village Web page and the Village Newsletter.					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect 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 Ongoing	<b>Hazard(s) Mitigated:</b> Multi-Hazard
<b>Year Initiated</b>		2014			



<b>Applicable Jurisdiction</b>	Village of Mount Prospect
<b>Applicable Goal</b>	2,6
<b>Applicable Objective</b>	1, 2, 5, 6, 8, 12
<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>	The Village continues to make available the Community Preparedness Guide on the Village web page and in the Village newsletter.
<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-9.15**

<b>Mitigation Action #15: 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>					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> BRIC, FMA, 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 Mount Prospect				
<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>	Medium				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High				

<b>Action/Implementation Plan and Project Description:</b>	The Village continues to support retrofitting, purchase or relocation of structures in hazard-prone areas. A building permit was issued for retrofitting of a residential home to reduce the chance 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	O

#### Action M-9.16

<b>Mitigation Action #16: Continue to support the countywide actions identified in this plan.</b>					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect 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
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<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>		The Village continues to support the countywide actions.			
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b>		O			

<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	
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**Action M-9.17**

<b>Mitigation Action #17: Actively participate in the plan maintenance strategy identified in this plan.</b>					
<b>Lead Agency/Department Organization:</b> EMRS, Village of Mount Prospect 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
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		2			
<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>		The Village continues to participate in the plan maintenance strategy through this annual progress report.			
<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-9.18

Mitigation Action #18: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
<b>Lead Agency/Department Organization:</b> Village of Mount Prospect 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 Mount Prospect			
<b>Applicable Goal</b>		3			
<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>		The Village continues to look for ways to integrate the mitigation plan into other plans, programs or resources.			
<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-9.21

Mitigation Action #21: Conduct a Floodplain Study of Higgins Creek.					
<b>Lead Agency/Department Organization:</b> MWRD	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> \$75,000; Medium	<b>Potential Funding Source:</b> MWRD	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>		2019			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		1,2,3,4,5,6			
<b>Applicable Objective</b>		3, 4, 13			
<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>		Higgins Creek is an unnumbered zone with no defined BFE or floodway/floodplain limits. A portion of Higgins Creek has recently annexed into Mount Prospect.			
<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-9.22

Mitigation Action #22: Stormwater Storage Construction in Mount Prospect.					
<b>Lead Agency/Department Organization:</b> MWRD	<b>Supporting Agencies/ Organizations:</b> Village of Mount Prospect Public Works	<b>Estimated Cost:</b> \$2,000,000; MWRD Contribution: TBD; High	<b>Potential Funding Source:</b> MWRD and BRIC, FMA, HMGP	<b>Estimated Projected Completion Date:</b> Short and Long Term	<b>Hazard(s) Mitigated:</b> Flooding
<b>Year Initiated</b>		2019			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		1,2,3			
<b>Applicable Objective</b>		2, 3, 9, 12			
<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: Mount Prospect Contract: 18-IGA-25 Watershed: Lower Des Plaines Location: Mount Prospect, IL Design and construction of two new flood storage basins and upgrade of ancillary storm sewers to provide a cumulative flood storage volume of approximately 30 acre-feet.			
<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-9.23

Mitigation Action #23: Continue annual Levee 37 inspection.					
<b>Lead Agency/Department Organization:</b> US Army Corps of Engineers	<b>Supporting Agencies/Organizations:</b> IL Dept of Natural Resources	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> BRIC, FMA, HMGP	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> Dam/Levee failure, Flooding
<b>Year Initiated</b>		2023			
<b>Applicable Jurisdiction</b>		Village of Mount Prospect			
<b>Applicable Goal</b>		2,3			
<b>Applicable Objective</b>		1			
<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—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. Properly running pumps and a structurally sound levee wall will ensure flood protection from the Des Plaines River for hundreds of homes.			
<b>Action/Implementation Plan and Project Description:</b>		The Village of Mount Prospect conducts quarterly inspections of Levee 37 including the pumping stations and gate structures. On an annual basis, the US Army Corps of Engineers, IL Dept of Natural Resources, and Village of Mount Prospect conduct a joint inspection of the levee. Any issues that arise from the quarterly or annual inspections are addressed by the Village.			
<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
Complete construction of Levee 37
Purchase emergency generator for Village water well.
Inspect Village warning sirens and review the need for replacements.
Conduct New Town Subdivision Storm Drainage Analysis.
Complete Catalpa Lane Area Drainage Improvements.
Complete Park Drive Area Drainage Improvements.
Increase pumping capacity of Levee 37 pump stations.

## Future Needs to Better Understand Risk/Vulnerability

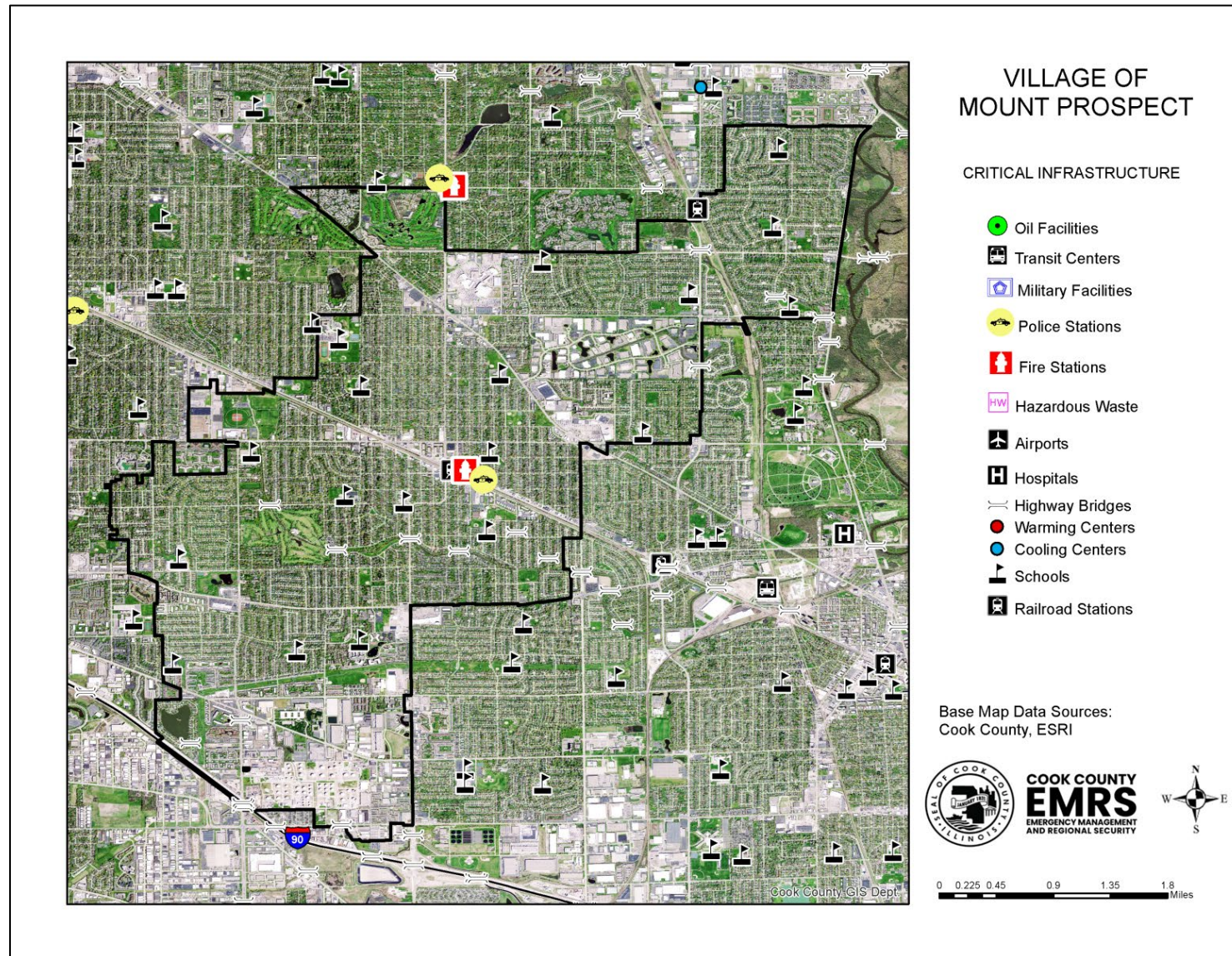
None at this time.

## Additional Comments

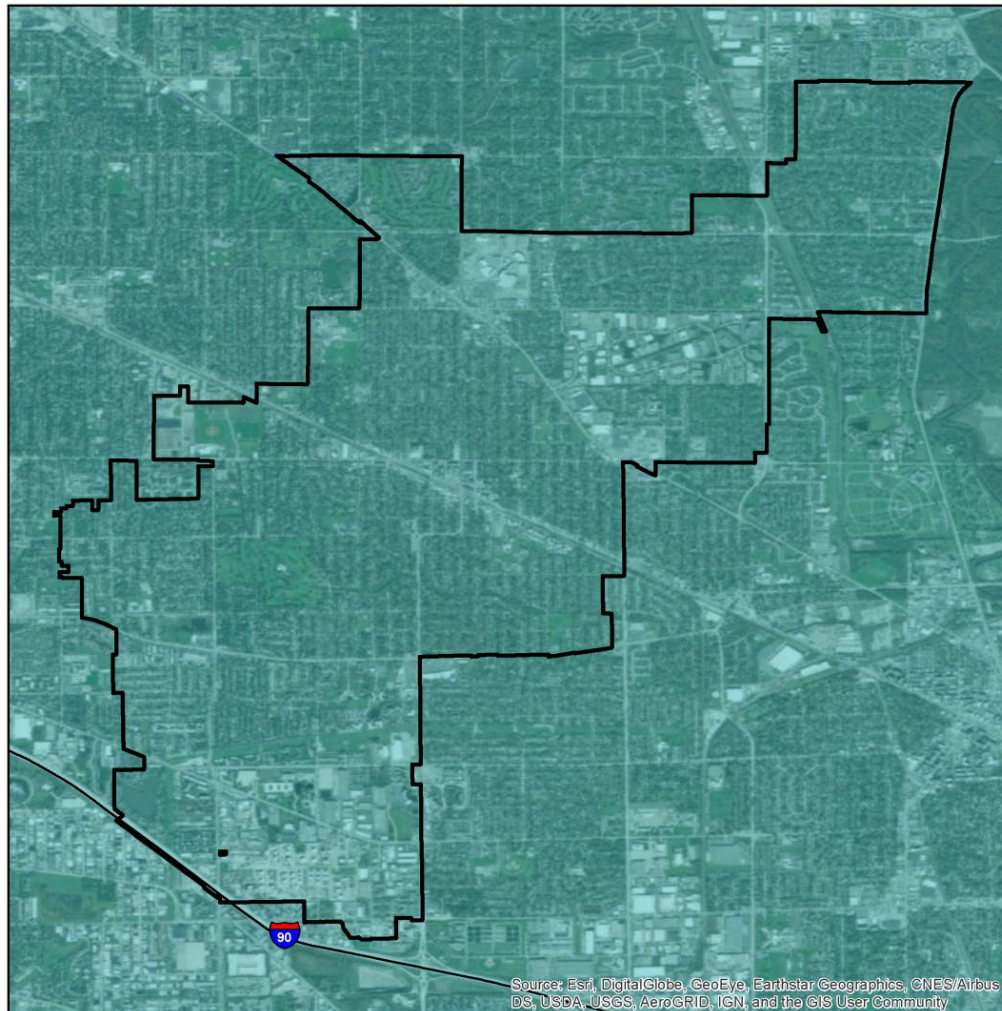
None at this time.



## Hazard Mapping







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

## VILLAGE OF MOUNT PROSPECT

### 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 760 m/s in the top 30 meters corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction program) site classes B and C.

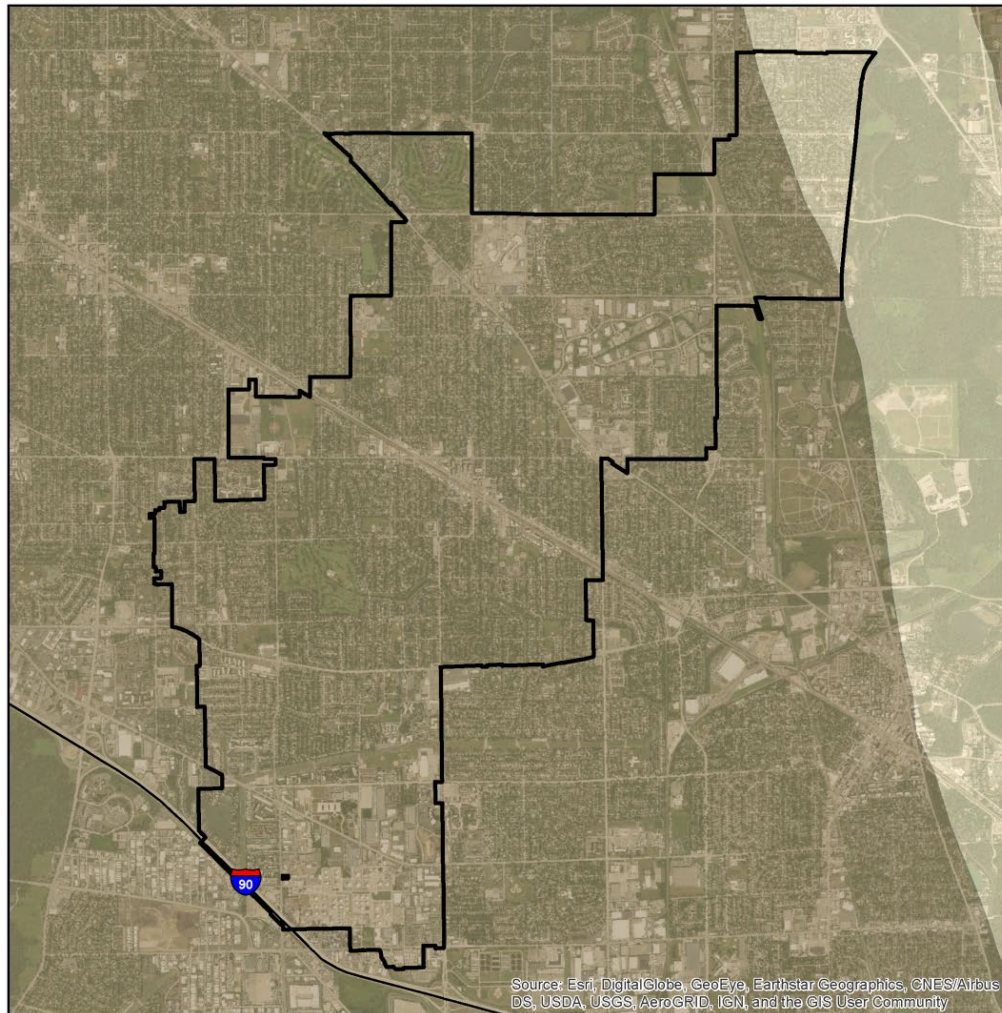
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0 0.225 0.45 0.9 1.35 1.8 Miles



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

## VILLAGE OF MOUNT PROSPECT

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

#### TYPE

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

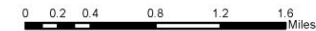
Data provided by the Illinois State Geological Survey and Cook County.

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.

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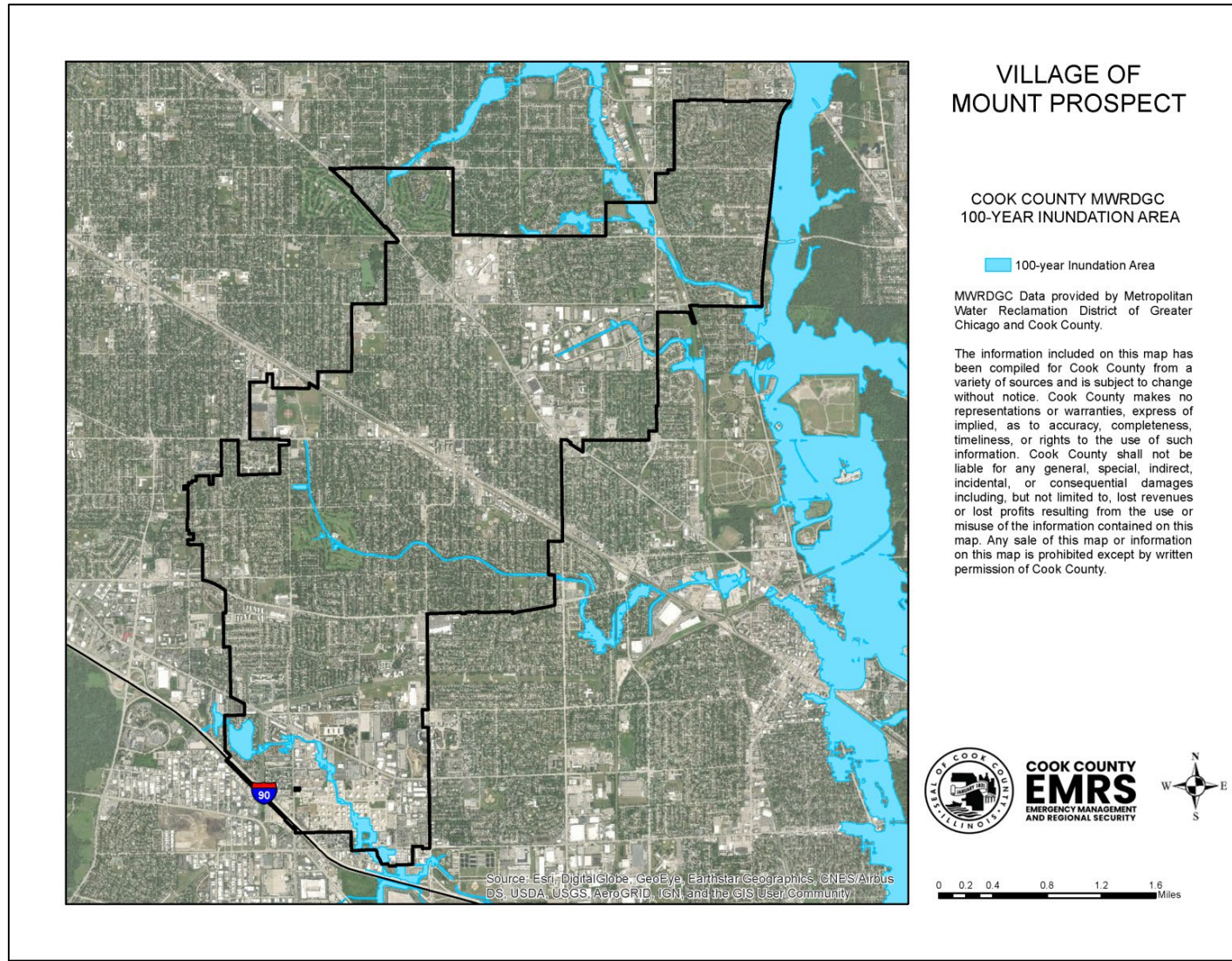


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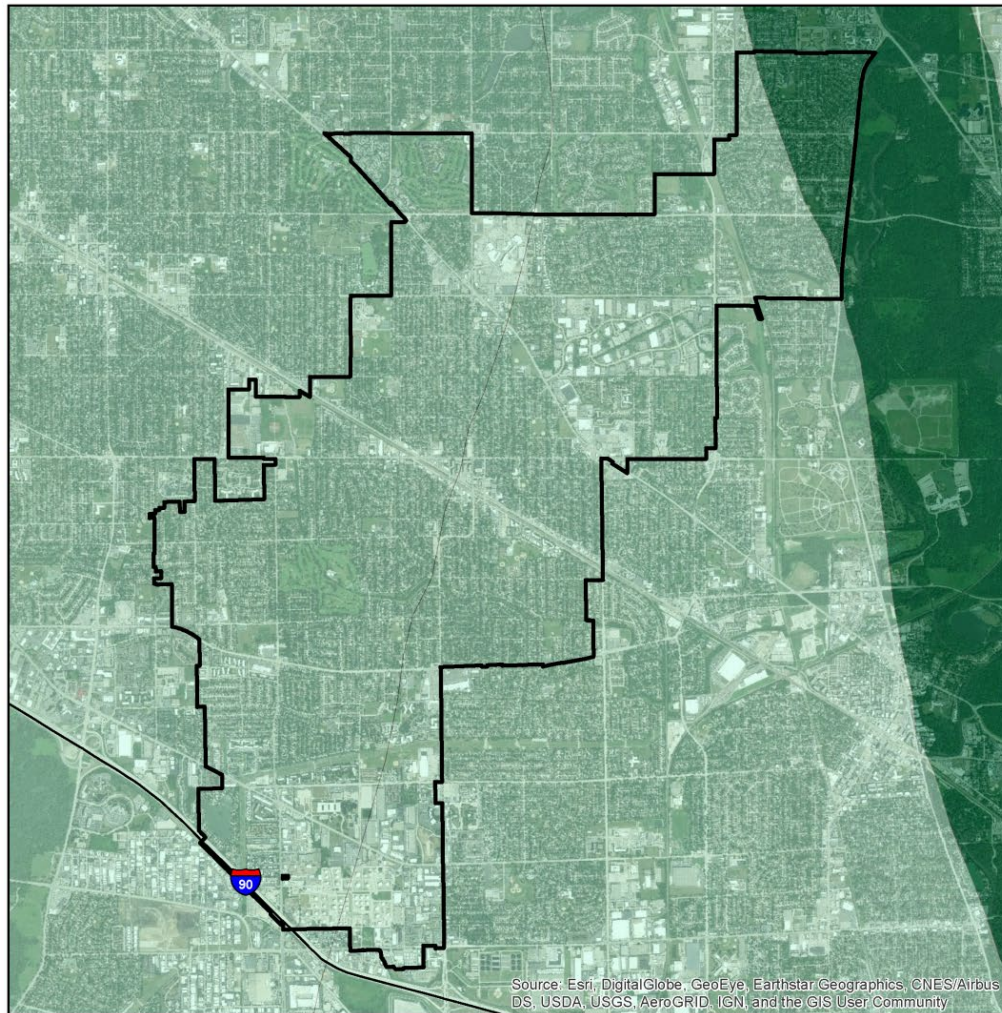




DISCLAIMER: The Cook County MWRDGC 100-year Inundation Map is provided to show general flood risk information regarding floodplains and inundation areas. This map is not regulatory. Official FEMA Flood Insurance Study information and regulatory maps can be obtained from <http://www.fema.gov>.







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

## VILLAGE OF MOUNT PROSPECT

### 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-2789 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 0.2 0.4 0.8 1.2 1.6 Miles



