

Glenview

Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate 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: June 20, 1899

Current Population: The 2020 U.S. Census population was 48,704. The 2022 U.S. Census estimate indicated the population was 47,258.

Population Growth: The overall population has decreased 2.97 percent between 2020 and 2022.

Location and Description: Glenview is located approximately 18 miles north of downtown Chicago in Cook County, Illinois. Glenview is approximately 6 miles west of Lake Michigan. Roughly 14 square miles, Glenview is boarded by the Edens Expressway (I-94) to the east, the Tri-State Tollway (I-294) to the west, Willow Road to the North, and Golf road to the south. Glenview borders the communities of Northbrook Northfield, Wilmette, Skokie, Morton Grove, Niles, Des Plaines, and Prospect Heights. Glenview's jurisdiction includes the portions of the Des Plaines River, the West Fork North Branch Chicago River, and the North Branch Chicago River. There are large sections of Forest Preserve lands on both the east and west sides of the Village.

Brief History: The entire Northfield Township originally was known as the town of Northfield. There were different names for various areas within the community. The Post Office demanded that an official name be selected, whereupon a special meeting of the villagers was called. Various names were suggested such as Rugenville, Glenvarr, Glendale, Glengrove, Glen Hollow, Oak View, and Glenview; the name Glenview won the majority vote on May 7, 1895. Glenview was incorporated as a village in 1899 with Hugh Burnham as its first mayor and had an adult population of 325. The Village remained primarily a farming community, and as late as 1930 had fewer than 2,000 residents. The population grew slowly until 1950, when the census recorded 6,142 residents. Spurred by the opening of the Edens Expressway, the population of the Village expanded to 18,132 in a land area of 5.1 square miles, according to the 1960 Census. Nationally, Glenview is identified with the Glenview

Naval Air Station, located directly in the heart of the Village. The Navy had been present in Glenview since 1937, when an airstrip was implemented at what was then the Curtiss-Reynolds Airport, to handle new, high-speed aircraft. The base consists of 1,288 acres of land, annexed into the corporate limits of the Village of Glenview in June 1971. In 1993 the Department of Defense announced the closure of the Glenview Naval Air Station.

Climate: Glenview's climate is typical for the Midwestern region and suburban Chicago area. On average, the July high is around 83 degrees with the January low being 17 degrees. Glenview averages about 36 inches of rain and 36 inches of snow per year. On average, there are 186 sunny days per year in Glenview. The number of days with any measurable precipitation is 125 per year, on average. The comfort index, which is based on humidity during the hot months, is 48 out of 100. Glenview has a continental climate, with summers generally wetter than the winters. The highest recorded temperature was 104 °F (40 °C) in June 1988; the lowest recorded temperature was -25 °F (-32 °C) in January 1982.

Governing Body Format: Glenview operates under a council-manager form of government. The Village President and six Trustees are elected at-large. This body of Government will assume the responsibility for the adoption and implementation of this plan. The President, with the concurrence of the Trustees, appoints the Village Manager, responsible for implementing Board policies and handling day-to-day operations through the seven municipal departments: Planning/Economic Development, Fire, Capital Projects/Inspectional Services, Manager's Office, Police, Public Works and Administrative Services.

Development Trends: Anticipated development levels for Glenview are low to moderate, consisting primarily of residential development and redevelopment of commercial parcels along main corridors. The Village of Glenview downtown had a revitalization project recently completed, which began in 2006, and there are few undeveloped sites left in the Village. Housing trends are somewhat competitive and there is steady growth within the Village of Glenview.

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	Other Jurisdictional	State Mandated	Comments

		Prohibitions	Authority		
Codes, Ordinances & Requirements					
Building Code	Yes	No	No	Yes	Ord. #5879 (2014)
Zonings	Yes	No	No	Yes	Ord. #4512 (2003)
Subdivisions	Yes	No	No	No	Ord. #1159 (1959/2005)
Stormwater Management	Yes	No	MWRD	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Res. #10-123 (2010)
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS77/) Residential Real Property Disclosure Act
Growth Management	Yes	No	No	No	Comprehensive Plan
Site Plan Review	Yes	No	No	No	Ord. #1159 (1959/2010)
Public Health and Safety	Yes	No	Yes	Yes	Ord. #1159 (1959/2012)
Environmental Protection	Yes	No	No	No	
Planning Documents					
General or Comprehensive Plan	Yes	No	No	No	Res. #04-042 (2004)
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					N/A

Floodplain or Basin Plan	Yes	No	IEMA	No	Ord. #5127 (2008)
Stormwater Plan	No	No	Yes	No	MWRD Detailed Watershed Plan for the North Branch Chicago River Watershed
Capital Improvement Plan	Yes	No	No	No	2024-2028 Capital Improvement Program
<i>What types of capital facilities does the plan address?</i>					
<i>How often is the plan revised/updated?</i>					Every 5 years
Habitat Conservation Plan	Semi	No	IEPA	No	Advisory Plan (2008)
Economic Development Plan	No	No	Yes	Yes	The Economic Development Commission is charged with reviewing all economic development related programs and incentivized including tax incentives offered through the Cook County 6b program.
Shoreline Management Plan	No	No	No	No	
Response/Recovery Planning					
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	Glenview EM

Threat and Hazard Identification and Risk Assessment	Yes	No	Yes	Yes	Glenview EM
Terrorism Plan	No	No	Yes	Yes	Cook County EMRS
Post-Disaster Recovery Plan	Yes	No	Yes	Yes	Glenview EM
Continuity of Operations Plan	Yes	No	Yes	No	Glenview EM
Public Health Plans	No	No	Yes	No	CCDPH

TABLE: FISCAL CAPABILITY

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	No
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	No
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	Annexation fee

TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Community Development Dept - multiple
Engineers or professionals trained in building or infrastructure construction practices	Yes	Community Development Dept - multiple
Planners or engineers with an understanding of natural hazards	Yes	Community Development Dept - multiple
Staff with training in benefit/cost analysis	No	
Surveyors	No	
Personnel skilled or trained in GIS applications	Yes	GIS Consortium (Contracted)

Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	
Grant writers	Yes	Village of Glenview - multiple

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE	
What department is responsible for floodplain management in your jurisdiction?	Community Development Department
Who is your jurisdiction's floodplain administrator? (department/position)	Community Development Department/Village Engineer
Are any certified floodplain managers on staff in your jurisdiction?	August 3, 2010
What is the date of adoption of your flood damage prevention ordinance?	Community Assistance Visit - October 12, 2010
When was the most recent Community Assistance Visit or Community Assistance Contact?	No
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	Yes
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	No
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?	Yes, Yes
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?	Community Development Department

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's Floodplain Administrator is a Certified Floodplain Manager (CFM).
- 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.

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.

Any reconstruction, rehabilitation, addition, or improvement of a structure, taking place subsequent to the adoption of this chapter in which the cumulative percentage of improvements equals or exceeds 50% of the market value of the structure before the start of construction of the improvement. New construction has to follow the new local, MWRD or state requirements to mitigate flood reduction.

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

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	Classification	Date Classified
Community Rating System	Yes	5	10/1/2017
Building Code Effectiveness Grading Schedule	Yes	3/3	2014
Public Protection/ISO	Yes	2	2018
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	Yes	N/A	Annual (since 1985)

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 goals and actions of the Hazard Mitigation Plan will be considered in the next capital improvement planning process.
- 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: 30 (29 Single Family, 1 Other-Nonresidential)
- Number of FEMA-Identified Severe Repetitive Loss Properties: 2 (1 Single Family, 1 Other Residential)

- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 7

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

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
Heavy Rain	-	8/7/2018	-
Heavy Rain	-	6/9/2018	3.54 inches of rain
Heavy Rain	-	5/3/2018	-
Hail	-	7/12/2017	-
Flooding	-	6/23/2016	-
Hail	-	4/26/2016	-
Rain/Flooding	-	6/26/2013	-
Severe Storms, Straight-line Winds and Flooding	DR-4116	4/16/2013 - 5/5/2013	Approximately 200 residents reported home flooding, yard flooding, sewer backup, and/or property damage in initial damage assessment survey. Village responded to more than 300 service requests from residents. Village overtime, equipment, and materials cost to respond to event was approximately \$54,800.
Extreme Heat and Train Derailment		7/4/2012	On July 4, heat caused the railroad lines on a bridge over Shermer Road in Glenview to expand leading to a train derailment. A total of 28 freight cars piled up leading to a collapse of the bridge. Two people in a car driving under the bridge were killed.
Storms and Flooding	-	7/22/2011 - 7/23/2011	6.25 inches of rain, basement and street flooding reported and three manhole covers were blown off by the flood waters with numerous flooded streets.

Storm and High Winds	-	7/11/2011	60 mph wind gusts; trees and limbs down, blocked roadways.
Severe Thunderstorms	-	6/30/2011	50 mph wind gusts; trees and limbs down, blocked roadways
Severe Thunderstorms	-	6/21/2011	70 mph wind gusts; more than 80 trees taken down, blocked roadways
Storms and Flooding	-	5/28/2011	Village responded to 55 service requests.
Storms and Flooding	-	5/25/2011	Village responded to 68 service requests.
Severe Winter Storm and Snowstorm	DR-1960	1/31/2011-2/3/2011	Village incurred approximately \$397,000 in costs responding to the blizzard. Village Board of Trustees issued a disaster declaration.
Storms and Flooding	-	7/24/2010	Village responded to 32 service requests
Severe Storms and Flooding	DR-1935	7/19/2010-8/7/2010	-
Storm	-	6/18/2010	-
Storms and Flooding	-	5/13/2010	Village responded to 58 service requests.
Storms and Flooding	-	6/19/2009	Village responded to 94 service requests related to storm and/or flooding.
Severe Storms and Flooding	DR-1800	9/13/2008 - 10/5/2008	Significant flooding was reported in the Golf neighborhood of Glenview.
Storm	-	8/4/2008	Village incurred \$267,813.26 in costs approved by FEMA.
Severe storms, Hail, and Flooding	DR-1729	8/20/2007 - 8/31/2007	Village incurred \$1,206,908.60 in costs approved by FEMA.
Severe Weather and Flooding	-	9/22/2006	In Glenview, an underpass in the 300 block of Waukegan Road was closed due to flooding.
Hail	-	5/1/2006	-

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.

Flood/Severe Weather: Substantial flooding has occurred in the area and is primarily triggered by severe storms. In addition to damage, service requests are prevalent following an event. We have numerous nursing homes and a hospital in our community.

We have residential/commercial areas directly adjacent to the rivers that are located in floodplains. We have low laying areas/road intersections that experience flooding during heavy flood events. We have areas that were developed before the stormwater detentions were required, including Downtown area. These areas are listed in the Stormwater Flood Reduction Plan adopted in 2010. Link to the plan listed below. [Link: Village of Glenview](#)

Additionally, the Village is working on updating the Stormwater Master Plan identifying needed projects. It is anticipated to have the updated plan by FY2025.

Hail: This event occurs during thunderstorms, which often cause flooding and severe wind events. Power lines, structures, and trees are frequently damaged.

Tornado/High Winds: High winds have historically affected residential areas, causing downed trees and downed electrical lines.

Snow: Senior citizens and individuals with functional and access needs in the community have historically had issues when there is a large amount of snow or severe winter weather. Winter weather events have also caused home damage in the area.

Extreme Heat: Strains infrastructure, such as the rail system, and causes extensive impact to the community.

Severe Winter Weather: We have numerous nursing homes and a hospital in our community.

Indicator	Number	Percent
Families in poverty	1,085	4.9%
People with disabilities	7,054	8.8%
People over 65 years	19,168	23.5%
People under 5 years	4,847	6%
People of color	24,423	30%
Black	1,762	2.2%
Native American	36	0%
Hispanic	5,152	6.3%
Difficulty with English	4,578	6%
Households with no car	1,838	5.9%
Mobile homes	284	0.9%

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

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

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
Current Vulnerability	
Dam and Levee Failure	Not Applicable
Drought	
Earthquake	
Flood (Riverine, Urban, Shoreline)	
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	

Tornado	
Wildfire (Wildfire Smoke)	Not Applicable

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

A major development of the Downtown Glenview is planned to include new and reconstructed buildings. New detentions or upgrades storm sewer will be required.

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.

TABLE: HAZARD RISK RANKING	
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 2.31

Mitigation Action #31: Construction of detention and conveyance storm sewer system					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) MWRD, FEMA	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)
Year Initiated		2025			
Applicable Jurisdiction		Village of Glenview			
Applicable Goal		1,3			
Applicable Objective		1,2,3,9			
Cost Analysis (Low, Medium, High)		Medium			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High			

Action/Implementation Plan and Project Description:	Construction of detention and conveyance storm sewer system to reduce flooding on the following locations: Brandess Subdivision Glenwood/Central Spruce/Lehigh Kaywood/Crabtree Harrison/Central Rebuild of the Fire Station
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	N

Ongoing Mitigation Actions

The following are ongoing actions with no definitive end or that are still in progress. During the 2024 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

Action 2.1

Mitigation Action #1: Maintain Cost-Sharing Resident Programs					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$50,000	Potential Funding Source: General Fund	Estimated Projected Completion Date: Ongoing	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Glenview			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,6,8,11,13			

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

Action 2.2

Mitigation Action #2: Participate in Clean Water Program (National Pollutant Discharge Elimination System)					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$75,000	Potential Funding Source: General Fund	Estimated Projected Completion Date: Ongoing	Hazard(s) Mitigated: Flooding
Year Initiated	2014				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	12,3,4,5,6				
Applicable Objective	3, 4, 6, 13				
Cost Analysis (Low, Medium, High)	Medium				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				

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

Action 2.7

Mitigation Action #7: West Fork of the North Branch of the Chicago River Floodplain					
Lead Agency/Department Organization: MWRD	Supporting Agencies/ Organizations:	Estimated Cost: \$25,000,000	Potential Funding Source: MWRD Funds	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2014				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1, 2, 3, 4, 7, 8, 9, 13				
Cost Analysis (Low, Medium, High)	High				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	High				
Action/Implementation Plan and Project Description:	Coordination ongoing with MWRD and a feasibility study with ACE (Section 205).				
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion;	O				

O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	
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Action 2.11

Mitigation Action #11: Continue to support the countywide actions identified in this plan.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short- and Long-term	Hazard(s) Mitigated: All
Year Initiated	2014				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,5				
Applicable Objective	All				
Cost Analysis (Low, Medium, High)	Low				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				
Action/Implementation Plan and Project Description:					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O				

Action 2.12

Mitigation Action #12: Actively participate in the plan maintenance strategy identified in this plan.					
Lead Agency/Department Organization: EMRS, Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Glenview			
Applicable Goal		1,5			
Applicable Objective		3,4,6			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Medium			
Action/Implementation Plan and Project Description:					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed		O			

Action 2.14

Mitigation Action #14: 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.

Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and Ongoing	Hazard(s) Mitigated: Flooding
Year Initiated	2014				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,2,5				
Applicable Objective	4,6,9				
Cost Analysis (Low, Medium, High)	Low				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				
Action/Implementation Plan and Project Description:					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O				

Action 2.15

Mitigation Action #15: Where feasible, implement a program to record high water marks following high-water events.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund: FEMA Public	Estimated Projected Completion Date: Long Term	Hazard(s) Mitigated: Flooding; Severe Weather

			Assistance (PA)		
Year Initiated	2014				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,2,5				
Applicable Objective	3,6,9				
Cost Analysis (Low, Medium, High)	Medium				
Priority and Level of Importance (Low, Medium, High)	Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				
Action/Implementation Plan and Project Description:					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O				

Action 2.22

Mitigation Action #22: Run a community risk reduction program.					
Lead Agency/Department Organization: Glenview Fire	Supporting Agencies/Organizations: Glenview Inspection Services, Planning, GIS	Estimated Cost: \$10,000 to \$20,000 - staffing	Potential Funding Source: General Fund, Staff Time	Estimated Projected Completion Date: 2024	Hazard(s) Mitigated: Hazardous Materials Incident
Year Initiated	2019				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,3				

Applicable Objective	6
Cost Analysis (Low, Medium, High)	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.
Priority and Level of Importance (Low, Medium, High)	High
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Complete update of pre-plans, assigning risk to each structure 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.
Action/Implementation Plan and Project Description:	Community Safety Enhancement
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action 2.23

Mitigation Action #23: Implement the Flood Control Project for the West Fork of the North Branch of the Chicago River					
Lead Agency/Department Organization: MWRD	Supporting Agencies/ Organizations: Glenview	Estimated Cost: \$6,600,000	Potential Funding Source: MWRD	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2019				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,2,3				
Applicable Objective	9				
Cost Analysis (Low, Medium, High)	High				

Priority and Level of Importance (Low, Medium, High)	High
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	High
Action/Implementation Plan and Project Description:	ID: WF-06 Contract: 16-IGA-18 Watershed: North Branch Location: Glenview, IL Construct 80 acre-feet of storage, a floodwall, pump station, and a new storm sewer. Village of Glenview is collaborating with the U.S. Army Corps of Engineers on a feasibility study.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action 2.24

Mitigation Action #24: Implement the Central Road Flood Control Project					
Lead Agency/Department Organization: MWRD	Supporting Agencies/Organizations:	Estimated Cost: High	Potential Funding Source: MWRD	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2019				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,2,3				
Applicable Objective	9				
Cost Analysis (Low, Medium, High)	High				

Priority and Level of Importance (Low, Medium, High)	High
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	High
Action/Implementation Plan and Project Description:	ID: IDOT-17 Contract: 14-065-5C Watershed: Lower Des Plaines Location: Unincorporated Northfield, Maine Township, and Glenview, IL Analysis of new conveyance improvements along Central Road and possible detention facilities. Ongoing coordination with the Illinois Department of Transportation.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action 2.25

Mitigation Action #25: Implement the East of Harms Road Drainage Improvements					
Lead Agency/Department Organization: MWRD	Supporting Agencies/Organizations: Glenview	Estimated Cost: \$3,860,000; MWRD Contribution: \$500,000	Potential Funding Source: MWRD	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2019				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	1,2,3				
Applicable Objective	9				
Cost Analysis (Low, Medium, High)	High				
Priority and Level of Importance (Low, Medium, High)	High				

Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	High
Action/Implementation Plan and Project Description:	ID: Glenview Contract: 18-IGA-27 Watershed: North Branch Location: Glenview, IL Upsize nearly 3,500 linear feet of storm sewers in the drainage area east of Harms Road to provide flood reduction benefits to 20 residential structures. Drafting intergovernmental agreement
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action 2.27

Mitigation Action #27: Washington Street and Springman Inline Detention and Conveyance					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$1,000,000	Potential Funding Source: General Fund, BRIC, HMGP	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2023				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	2,3				
Applicable Objective					
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.				
Priority and Level of Importance (Low, Medium, High)	Medium				

Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Added stormwater capacity 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.
Action/Implementation Plan and Project Description:	Reconstruction of roadway that included expanded stormwater detention and more efficient conveyance of runoff.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action 2.28

Mitigation Action #28: Chestnut Avenue Improvements					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$1,500,000	Potential Funding Source: General Fund, HMGP, BRIC	Estimated Projected Completion Date: 2024	Hazard(s) Mitigated: Flooding
Year Initiated	2022				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	2,3				
Applicable Objective					
Cost Analysis (Low, Medium, High)	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.				
Priority and Level of Importance (Low, Medium, High)	Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	reduction in flooding				

	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.
Action/Implementation Plan and Project Description:	Reconstruction of roadway that included expanded stormwater detention and more efficient conveyance of runoff.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action 2.29

Mitigation Action #29: Woodlawn Drainage Improvements					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$1,000,000	Potential Funding Source: General Fund, BRIC, HMGP	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flooding
Year Initiated	2022				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	2,3				
Applicable Objective					
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.				
Priority and Level of Importance (Low, Medium, High)	Medium				
Benefits of the Mitigation Project (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.				

Action/Implementation Plan and Project Description:	Reconstruction of roadway that included expanded stormwater detention and more efficient conveyance of runoff.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

Action 2.30

Mitigation Action #30: Central Road, Longvalley & Woodlawn Improvements					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$3,000,000	Potential Funding Source: General Fund, HMGP, BRIC	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flooding
Year Initiated	2023				
Applicable Jurisdiction	Village of Glenview				
Applicable Goal	2,3				
Applicable Objective					
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.				
Priority and Level of Importance (Low, Medium, High)	Medium				

Benefits of the Mitigation Project (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.
Action/Implementation Plan and Project Description:	Reconstruction of roadway that included expanded stormwater detention and more efficient conveyance of runoff.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = 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
East of Harms Regional Stormwater Project
Dewes/Henley/Harlem Stormwater Conveyance and Detention
Glenview Park Golf Club Stormwater Detention
Navy Bypass Sewer
Local Stormwater Implementation Plan 2014-2018 (\$2.5 million per year)
Update building and fire codes including expanded fire sprinklering

Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties to repetitive losses
Maintain or enhance the Village's status under the Community Rating System (CRS) program.
Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.
Coordinate with School District 34 to construct regional detention at Lyon School site to benefit Bonnie Glen-area residents (340 homes).
Develop "quick-win" projects for areas impacted by July 23, 2016 storm including (potentially) Golfview, north of Cole Park, Woodlawn and Longvalley/Culver.
Comply with MWRD's countywide sanitary sewer backup initiatives including 2017 smoke testing in high-priority areas.
East of Harms Phase II project to install stormwater improvements benefiting 20 properties in the neighborhood.
Wagner Farm neighborhood stormwater improvements benefiting 30 adjacent properties.
Implement the North Glen Oak Acres Drain and Sewer Improvement Project with the Army Corps of Engineers

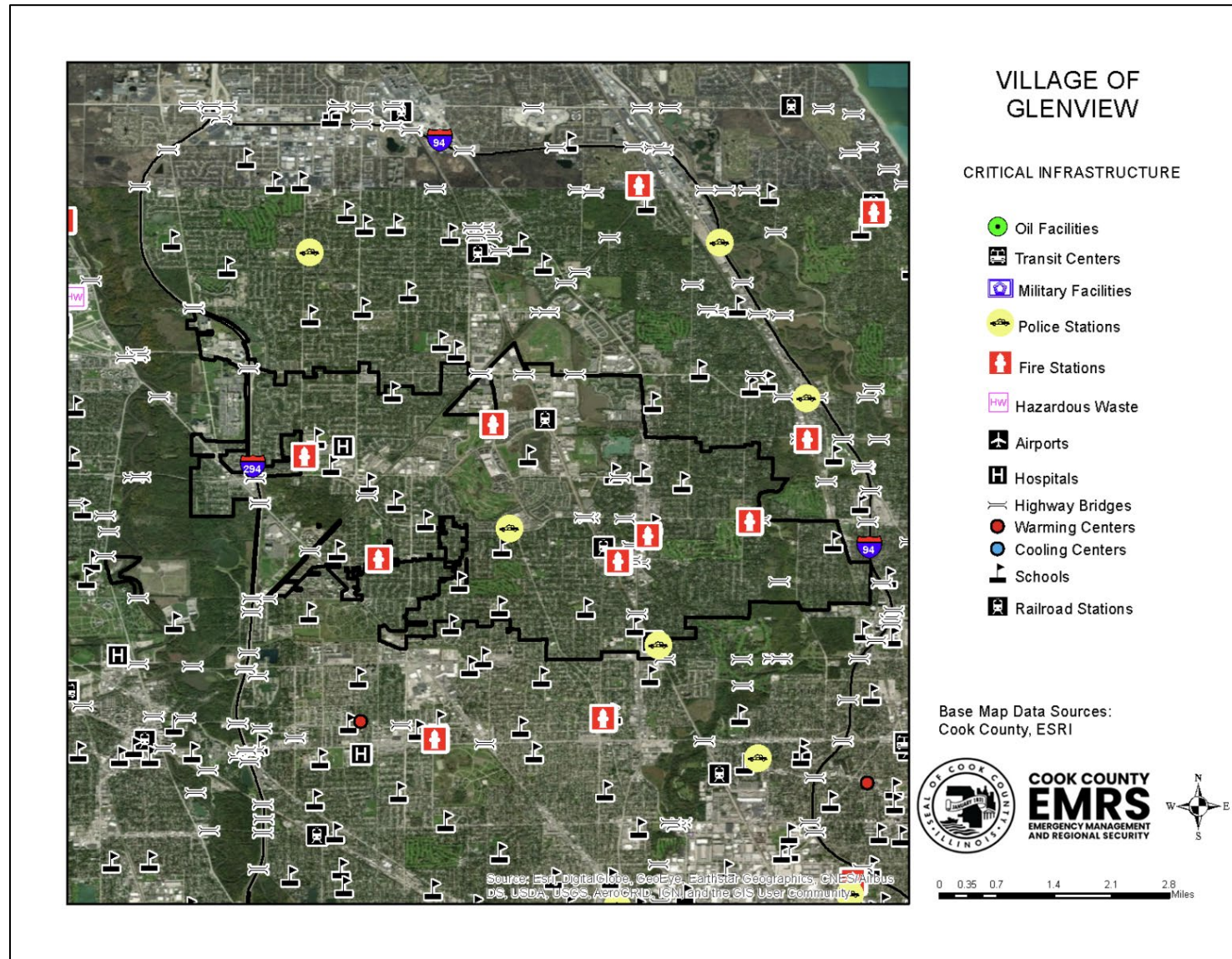
Future Needs to Better Understand Risk/Vulnerability

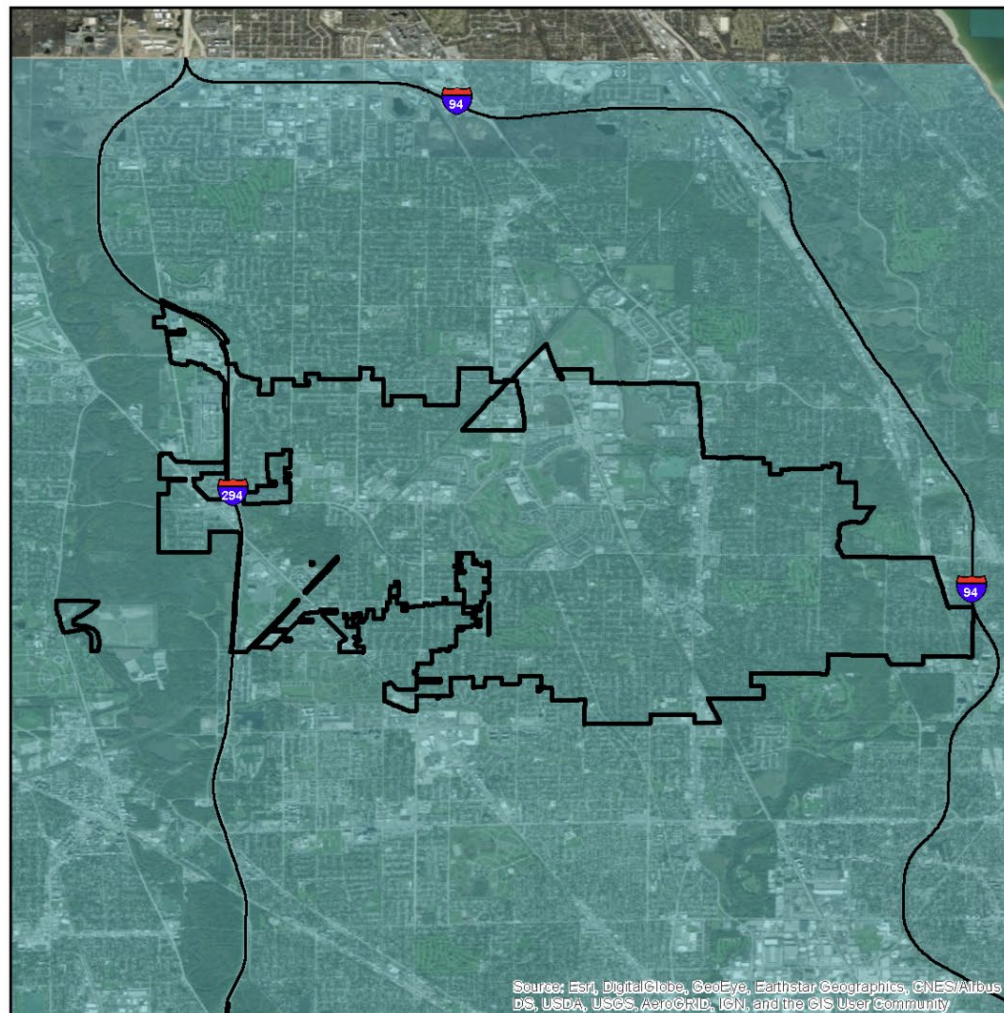
None at this time

Additional Comments

None at this time

Hazard Mapping





VILLAGE OF GLENVIEW

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.

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.



COOK COUNTY
EMRS
EMERGENCY MANAGEMENT
AND REGIONAL SECURITY



0 0.35 0.7 1.4 2.1 2.8 Miles

