COOK COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN VOLUME 2 - Municipal Annexes

# **Glenview Annex**

# FINAL

July 2019

Prepared for:



Cook County Department of Homeland Security and Emergency Management 69 W. Washington St., Suite 2600 Chicago, Illinois 60602

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# Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
Ralph Ensign, Fire Chief 1215 Waukegan Road	Jeff Brady, Director of Community Development
Glenview, IL 60025	2500 East Lake Avenue Glenview, IL 60025
847-657-6785	847-904-4306
rensign@glenview.il.us	jeffb@glenview.il.us

# Jurisdiction Profile

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

- Date of Incorporation: June 20, 1899
- Current Population: 46,740
- Population Growth: Population growth occurred slowly up to 1950 when the Census recorded 6,142 residents. Spurred by the opening of the Edens Expressway (Chicagoland's first expressway to the northern suburbs) along the eastern boundary of the Village, the population increased to 18,132 at the 1960 Census and to 37,093 at the 1990 Census. The 2000 Census recorded a population of 41,847 up 12.8% from the 1990 Census within the Village's 13.5 square miles. A Special Census was conducted in 2005 to account for growth within Glenview resulting in a population of 44,443. The Village's population at the 2010 Census was 44,692 and the current population estimate is 46,740 an increase of around 6 percent.
- 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. ٠ 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.

# Capability Assessment

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

General or Comprehensive Yes Plan	No           No           No           No           No           No           No           No           No	No No MWRD No Yes	Yes Yes No Yes No Yes No Yes	<ul> <li>Ord. #5879 (2014)</li> <li>Ord. #4512 (2003)</li> <li>Ord. #1159 (1959/2005)</li> <li>State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA.</li> <li>Res. #10-123 (2010)</li> <li>(765 ILCS77/) Residential Real Property Disclosure Act</li> </ul>
Zonings Yes Subdivisions Yes Stormwater Management Yes Stormwater Management Yes Post Disaster Recovery No Real Estate Disclosure No Growth Management Yes Site Plan Review Yes Public Health and Safety Yes Environmental Protection Yes Planning Documents General or Comprehensive Yes Plan	No No No No No No No No	No No MWRD No Yes	Yes No Yes No	Ord. #4512 (2003) Ord. #1159 (1959/2005) State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Res. #10-123 (2010) (765 ILCS77/) Residential Real Property Disclosure
SubdivisionsYesSubdivisionsYesStormwater ManagementYesPost Disaster RecoveryNoReal Estate DisclosureNoGrowth ManagementYesSite Plan ReviewYesPublic Health and SafetyYesEnvironmental ProtectionYesPlanning DocumentsGeneral or ComprehensiveYesYes	No No No No	No MWRD No Yes	No Yes No	Ord. #1159 (1959/2005) State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Res. #10-123 (2010) (765 ILCS77/) Residential Real Property Disclosure
Stormwater ManagementYesPost Disaster RecoveryNoReal Estate DisclosureNoGrowth ManagementYesSite Plan ReviewYesPublic Health and SafetyYesEnvironmental ProtectionYesPlanning DocumentsGeneral or Comprehensive Plan	No No No	MWRD No Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Res. #10-123 (2010) (765 ILCS77/) Residential Real Property Disclosure
Post Disaster RecoveryNoReal Estate DisclosureNoGrowth ManagementYesSite Plan ReviewYesPublic Health and SafetyYesEnvironmental ProtectionYesPlanning DocumentsGeneral or Comprehensive Plan	No No	No Yes	No	activity from Construction sites 1 acre or larger under section 402 CWA. Res. #10-123 (2010) (765 ILCS77/) Residential Real Property Disclosure
Real Estate DisclosureNoGrowth ManagementYesSite Plan ReviewYesPublic Health and SafetyYesEnvironmental ProtectionYesPlanning DocumentsGeneral or ComprehensivePlanYes	No	Yes	-	(765 ILCS77/) Residential Real Property Disclosure
Growth Management Yes Site Plan Review Yes Public Health and Safety Yes Environmental Protection Yes <b>Planning Documents</b> General or Comprehensive Yes			Yes	Real Property Disclosure
Site Plan Review       Yes         Public Health and Safety       Yes         Environmental Protection       Yes         Planning Documents       General or Comprehensive       Yes         Plan       Yes       Yes	No	N.		
Public Health and Safety       Yes         Environmental Protection       Yes         Planning Documents       General or Comprehensive         Yes       Yes		No	No	Comprehensive Plan
Environmental Protection Yes Planning Documents General or Comprehensive Yes Plan	No	No	No	Ord. #1159 (1959/2010)
Planning Documents General or Comprehensive Yes Plan	No	Yes	Yes	Ord. #1159 (1959/2012)
General or Comprehensive Yes Plan	No	No	No	
Plan				
Is the plan equipped to provide linka	No	No	No	Res. #04-042 (2004)
	ge to this mitig	ation plan?	)	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				

How often is the plan revised	N/A					
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 incentived 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 DHSEM	
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	ССДРН	

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		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			

ABLE: 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			
What is the date of adoption of your flood damage prevention ordinance?	August 3, 2010			
When was the most recent Community Assistance Visit or Community Assistance Contact?	Community Assistance Visit - October 12, 2010			
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, Yes			

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		Gold (Countywide)	2014	
Tree City USA	Yes	N/A	Annual (since 1985)	

# Jurisdiction-Specific Natural Hazard Event

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: 38
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 15

TABLE: NATURAL H	AZARD EVENTS		
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment
Heavy Rain	-	8/7/2018	-
Heavy Rain	-	6/9/2018	-
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.
Storms and Floodin៖	5-	7/22/2011 - 7/23/2011	6.25 inches of rain, basement and street flooding reported
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	-	6/21/2011	70 mph wind gusts; more than
Thunderstorms			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.
			Village incurred approximately
Severe Winter	DR-1960	1/31/2011-	\$397,000 in costs responding
Storm and		2/3/2011	to the blizzard. Village Board
Snowstorm			of Trustees issued disaster
			declaration.
Storms and Flooding	-	7/24/2010	Village responded to 32
			service requests
Severe Storms and	DR-1935	7/19/2010-	-
Flooding		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	DR-1800	9/13/2008 -	-
Flooding		10/5/2008	
Storm	-	8/4/2008	Village incurred \$267,813.26
			in costs approved by FEMA.
Severe storms, Hail,	DR-1729	8/20/2007 -	Village incurred \$1,206,908.60
and Flooding		8/31/2007	in costs approved by FEMA.
Severe Weather	-	9/22/2006	-
Hail	-	5/1/2006	-

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

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2019 Cook County Multi-Jurisdictional Hazard Mitigation Plan Update. This section only addresses the hazards and their associated impacts that are **relevant** and **unique** to the municipality.

*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.

*Hail:* This event occurs during thunderstorms, which often cause flooding and severe wind events. Power line, 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 cause extensive impact to the community.

# 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	Risk Rating Score (Probability x Impact)			
1	Severe Weather	54			
2	Severe Winter Weather	54			
3	Earthquake	32			
4	Tornado	27			
5	Flood	27			
6	Drought	2			
7	Dam Failure	0			

# Mitigation Strategies and Actions

The heart of the mitigation plan is the mitigation strategy, which serves as the long-term blueprint for reducing the potential losses identified in the risk assessment. The mitigation strategy describes how the community will accomplish the overall purpose, or mission, of the planning process. In this section, mitigation actions/projects were updated/amended, identified, evaluated, and prioritized. This section is organized as follows:

- New Mitigation Actions New actions identified during this 2019 update process
- Ongoing Mitigation Actions Ongoing actions with no definitive end or that are still in progress. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.
- Completed Mitigation Actions An archive of all identified and completed projects, including completed actions since 2014.

The *Hazard Mitigation Action Plan Matrix Table* below lists the actions that make up the jurisdiction's hazard mitigation plan. The *Mitigation Strategy Priority Schedule Table* identifies the priority for each action.

TABLE: HA	ZARD MITIGAT	ION ACTION P	LAN MATRIX			
	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
Action 2.1-	–Maintain Cos	t-Sharing Resid	lent Programs.		•	•
Ongoing	Multi-hazard	1, 6, 8, 11, 13	Glenview	\$50,000; Low	General Fund	Ongoing
Action 2.2-	<ul> <li>Participate in</li> </ul>	Clean Water P	rogram (Natior	nal Pollutant [	Discharge Elimii	nation System).
Ongoing	Flood	3, 4, 6, 13		\$75,000; Medium	General Fund	Ongoing
Action 2.3—East of Harms Regional Stormwater Project.						
Completed	Flood	1, 2, 7, 8, 9		\$7,100,000; High	MWRD Phase II	Completed
Action 2.4—Dewes/Henley/Harlem Stormwater Conveyance and Detention.						
Completed	Flood	1, 2, 8, 9		\$3,712,000; High	FEMA-PDM	Completed
Action 2.5-	-Glenview Par	k Golf Club Sto	rmwater Deter	ition.		
Completed	Flood	1, 2, 8, 13	Glenview Park District	\$4,200,000; High	General Fund	Completed
Action 2.6-	Action 2.6—Navy Bypass Sewer.					
Completed	Flood	1, 2, 9	Glenview	\$2,000,000; High	Tax Increment Financing Funds	Completed
Action 2.7-	–West Fork of	the North Brar	nch of the Chica	go River Floo	dplain.	

		1, 2, 3, 4, 7, 8, 9, 13		High		available, Long- term
Action 2.8—Local Stormwater Implementation Plan 2014-2018 (\$2.5 million per year).						
Completed	Flood	1, 2, 9	Glenview	\$12,500,000; High	General Funds	Completed
Action 2.9-	–Update buildi	ng and fire coc	les including ex	panded fire s	prinklers.	
Completed	Multi-hazard	4, 6, 10	Glenview	\$10,000; Low	General Funds	Completed
	O—Where appr s to prevent fut	• • • • •				uctures in hazard- titive losses.
Completed	All	7, 13	Glenview	High	FEMA Hazard Mitigation Grant	Completed
Action 2.11	L—Continue to	support the co	untywide actio	ons identified i	in this plan.	
Ongoing	All	All	Glenview	Low	General Fund	Short- and long- term
Action 2.12	2—Actively part	ticipate in the p	olan maintenar	ice strategy id	entified in this	plan.
Ongoing	All	3, 4, 6	DHSEM (Glenview)	Low	General Fund	Short-term
Action 2.13 program.	B—Maintain or	enhance the V	illage's status u	inder the Com	munity Rating	System (CRS)
Completed	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Glenview	Low	General Fund	Completed
programs tl adopted flo providing p	Action 2.14—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.					
01120112	liccung	., ., .	Glenview	Low		ongoing
Action 2.15 events.	-Where feasi	ble, implement	a program to I	record high wa		owing high-water
Ongoing	Flooding, Severe Weather	3, 6, 9	Glenview	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
	Action 2.16—Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
Completed	All	3, 4, 6, 10, 13	Glenview Community Development Department	Low	General Fund	Completed
Action 2.17—Coordinate with School District 34 to construct regional detention at Lyon School site to benefit Bonnie Glen-area residents (340 homes).						

Completed	Flood	9	Glenview and School District 34		Glenview	Complete
	<b>8</b> —Develop "qu y) Golfview, noi	• •		• •	•	m including
Ongoing	Severe Weather	2	TBD	TBD	TBD	Ongoing
	<b>9</b> —Comply with high-priority are		ntywide sanitar	y sewer backı	up initiatives in	cluding 2017 smoke
Ongoing	Flood	9	Glenview	\$125,000	Gen Fund	Ongoing
	<b>0</b> —East of Harn in the neighboi		ect to install st	ormwater im	provements be	nefiting 20
Ongoing	Flood	9	Glenview	\$2,406,000	Glenview, MWRD (\$500K)	Ongoing
Action 2.22 properties.	<b>1</b> —Wagner Fari	m neighborhoc	od stormwater i	improvement	s benefiting 30	adjacent
Completed	Flood	9	Glenview	\$200,000	Glenview	Complete
Action 2.22	<b>2</b> —Run a comm	nunity risk redu	ction program			
New	Hazardous Materials Incident	6	Glenview Fire	\$10,000 to \$20,000 - staffing; Medium	Village	2024
Action 2.23	<b>B</b> —Implement t	he Flood Cont	rol Project for t	he West Fork	of the North B	ranch of the
Chicago Riv	/er					
New	Flood	9	MWRD	\$6,600,000	MWRD	TBD
Action 2.24	<b>4</b> —Implement t	he Central Roa	d Flood Contro	ol Project		
New	Flood	9	MWRD	TBD	MWRD	TBD
Action 2.2	Action 2.25—Implement the East of Harms Road Drainage Improvements					
New	Flood	9	MWRD	TBD	MRWD	TBD
	Action 2.26—Implement the North Glen Oak Acres Drain and Sewer Improvement Project with the Army Corps of Engineers					
New	Flood	9	ACoE; MWRD	\$1,700,000	ACoE; MWRD	TBD
(a) Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.						

TABLE: MIT	TABLE: MITIGATION STRATEGY PRIORITY SCHEDULE						
Number	Number of Objectives Met	Benefits	Costs		Grant- Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)
1	5	Medium	Low	Yes	No	Yes	Medium
2	4	Medium	Medium	Yes	No	Yes	High

5	High	High	Yes	Yes	Yes	High
4	High	High	Yes	Yes	Yes	High
4	High	High	Yes	Yes	No	High
3	High	High	Yes	No	Yes	High
8	High	High	Yes	Yes	Yes	High
3	High	High	Yes	No	Yes	High
3	High	Low	Yes	No	Yes	High
2	High	High	Yes	Yes	Yes	Medium
13	Medium	Low	Yes	No	Yes	High
3	Medium	Low	Yes	Yes	Yes	High
9	Medium	Low	Yes	No	Yes	Medium
3	Medium	Low	Yes	No	Yes	High
3	Medium	Medium	Yes	Yes	No	Medium
5	Medium	Low	Yes	No	Yes	High
1	High	High	Yes	No	Yes	High
1	TBD	TBD	TBD	TBD	TBD	TBD
1	Medium	Medium	TBD	No	Yes	Medium
1	High	High	Yes	Yes	Yes	High
1	Medium	Low	Yes	No	Yes	Medium
1	Medium	Medium	Yes	Yes	Yes	High
1	High	High	Yes	Yes	Yes	High
1	High	High	Yes	Yes	Yes	High
1	High	High	Yes	Yes	Yes	High
1	High	High	Yes	Yes	Yes	High
pter 1 for exp	planation of	priorities.				
	4 4 3 8 3 3 2 13 3 2 13 3 9 3 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1	4High4High3High3High3High3High3High13Medium3Medium3Medium3Medium3Medium1Medium1High1TBD1Medium1Medium1High	AHighHigh4HighHigh3HighHigh3HighHigh8HighHigh3HighLow3HighLow2HighLow2MediumLow3MediumLow3MediumLow3MediumLow3MediumLow3MediumLow3MediumLow3MediumLow1HighHigh1TBDTBD1MediumMedium1MediumLow1MediumMedium1HighHigh1HighHigh1HighHigh1HighHigh1HighHigh1HighHigh1HighHigh1HighHigh	4HighHighYes4HighHighYes3HighHighYes3HighHighYes3HighHighYes3HighLowYes3HighLowYes3HighLowYes3MediumLowYes13MediumLowYes3MediumLowYes3MediumLowYes3MediumLowYes3MediumLowYes3MediumLowYes3MediumLowYes3MediumLowYes3MediumMediumYes1HighHighYes1HighHighYes1MediumMediumYes1MediumLowYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1HighHighYes1High	4HighHighYesYes4HighHighHighYesYes3HighHighYesNo8HighHighYesNo3HighHighYesNo3HighLowYesNo3HighLowYesNo2HighLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumLowYesNo3MediumMediumYesNo3MediumLowYesNo3MediumLowYesNo1HighHighYesNo1HighHighYesYes1MediumLowYesNo1HighHighYesYes1HighHighHighYesYes1HighHighHighYesYes1HighHighHighYesYes1HighHighHighYesYes1HighHighHigh	4HighHighYesYesYes4HighHighHighYesNo3HighHighYesNoYes8HighHighYesNoYes3HighHighYesNoYes3HighHighYesNoYes3HighLowYesNoYes3HighLowYesNoYes3HighLowYesNoYes2HighLowYesYesYes3MediumLowYesNoYes3MediumLowYesNoYes3MediumLowYesNoYes3MediumLowYesNoYes3MediumLowYesNoYes3MediumLowYesNoYes3MediumLowYesNoYes3MediumLowYesNoYes3MediumLowYesNoYes4HighHighYesNoYes1HighHighYesNoYes1MediumMediumTBDTBDTBD1MediumLowYesYesYes1MediumLowYesNoYes1HighHighYesYesYes1Hig

# New Mitigation Actions

The following are new mitigation actions created during the 2019 update.

Mitigation Action	Run a community risk reduction program.
Year Initiated	2019
Applicable Jurisdiction	Glenview Fire (Village of Glenview), Glenbrook Fire District
Lead	Glenview Fire
Agency/Organization	
Supporting	Glenview Inspection Services, Planning, GIS
Agencies/Organizations	
	Develop and implement sustainable, cost-effective, and environmentally sound
	risk-reduction (mitigation) projects.
Applicable Goal	Protect public services and critical facilities, including infrastructure, from loss
	of use during natural hazard events.
	Use the best available data, science and technologies to educate the public and
Applicable Objective	to improve understanding of the location and potential impacts of natural
	hazards, the vulnerability of building types and community development
	patterns, and the measures needed to protect life safety.
Potential Funding	Village
Source	
Estimated Cost	\$10,000 to \$20,000 - staffing
Benefits (loss avoided)	Complete update of pre-plans, assigning risk to each structure
Projected Completion	2024
Date	
Priority and Level of	
Importance (Low,	High Priority
Medium, High)	
Benefit Analysis (Low,	Medium- Project will have a long-term impact on the reduction of risk exposure
Medium, High)	for life and property, or project will provide an immediate reduction in the risk
	exposure for property.
Cost Analysis (Low,	Medium- The project could be implemented with existing funding but would
Medium, High)	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.
Actual Completion	
Date	

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

Mitigation Action and Project Maintenance			
Year	Status	Comments	
2019	New	Community safety enhancement	
2020			
2021			

2022	
2023	

Mitig	ated Hazards
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
Х	Hazardous Materials Incident

-	Implement the Flood Control Project for the West Fork of the North Branch of the Chicago River
Year Initiated	2019
Applicable Jurisdiction	Glenview
Lead	MWRD
Agency/Organization	
Supporting	Glenview
Agencies/Organizations	
Applicable Goal	Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. Protect public services and critical
	facilities, including infrastructure, from loss of use during natural hazard events and potential damage from such activities.
Applicable Objective	Provide or improve flood protection on a watershed basis with flood control structures and drainage maintenance plans.
Potential Funding	MWRD
Source	
Estimated Cost	\$6,600,000
Benefits (loss avoided)	TBD
Projected Completion Date	TBD
Priority and Level of	
Importance (Low, Medium, High)	High
Benefit Analysis (Low, Medium, High)	High
Cost Analysis (Low, Medium, High)	High
Actual Completion Date	

<b>Recommended Mitigati</b>	Recommended Mitigation Action/Implementation Plan and Project Description				
Action/Implementation	ID: WF-06				
Plan and Project	Contract: 16-IGA-18 Watershed: North Branch Location: Glenview, IL				
Description:					
	Construct 80 acre-feet of storage, a floodwall, pump station, and a new storm				
	sewer.				

Mitigation A	Mitigation Action and Project Maintenance				
Year	Status	Comments			
2019	New	Village of Glenview is collaborating with the U.S. Army Corps of			
		Engineers on a feasibility study.			
2020					
2021					
2022					
2023					

Miti	gated Hazards
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
х	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

#### Action 2.24

Mitigation Action	Implement the Central Road Flood Control Project
Year Initiated	2019
Applicable Jurisdiction	Glenview
Lead	MWRD
Agency/Organization	
Supporting	Glenview
Agencies/Organizations	
Applicable Goal	Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events and potential damage from such activities.
Applicable Objective	Provide or improve flood protection on a watershed basis with flood control structures and drainage maintenance plans.
Potential Funding	MWRD
Source	
Estimated Cost	TBD
Benefits (loss avoided)	TBD
Projected Completion Date	TBD
Priority and Level of	
Importance (Low,	High
Medium, High)	
Benefit Analysis (Low,	High
Medium, High)	
Cost Analysis (Low, Medium, High)	High
Actual Completion Date	

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

Action/Implementation	ID: IDOT-17
Plan and Project	Contract: 14-065-5C Watershed: Lower Des Plaines
Description:	Location: Unincorporated Northfield, Maine Township, and Glenview, IL
	Analysis of new conveyance improvements along Central Road and possible
	detention facilities.

Mitigation Action and Project Maintenance		
Year	Status	Comments
2019	New	Ongoing coordination with the Illinois Department of
		Transportation.
2020		
2021		
2022		
2023		

Miti	gated Hazards
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
Х	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

Mitigation Action	Implement the East of Harms Road Drainage Improvements
Year Initiated	2019
Applicable Jurisdiction	Glenview
Lead	MWRD
Agency/Organization	
Supporting	Glenview
Agencies/Organizations	
Applicable Goal	Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events and potential damage from such activities.
Applicable Objective	Provide or improve flood protection on a watershed basis with flood control structures and drainage maintenance plans.
Potential Funding Source	MWRD
Estimated Cost	\$3,860,000; MWRD Contribution: \$500,000
Benefits (loss avoided)	TBD
Projected Completion Date	TBD
Priority and Level of Importance (Low, Medium, High)	High
Benefit Analysis (Low, Medium, High)	High
Cost Analysis (Low, Medium, High)	High
Actual Completion Date	

Recommended Mitigation Action/Implementation Plan and Project Description		
	ID: Glenview Contract: 18-IGA-27	
Action/Implementation	Watershed: North Branch Location: Glenview, IL	
Plan and Project	Upsize nearly 3,500 linear feet of storm sewers in the drainage area east of	
Description:	Harms Road to provide flood reduction benefits to 20 residential structures.	

Mitigation Action and Project Maintenance		
Year	Status	Comments
2019	New	Drafting intergovernmental agreement
2020		
2021		
2022		
2023		

tigated Hazards	
All Hazards	
Dam/Levee Failure	
Drought	
Earthquake	
Flood	
Extreme Heat	
Lightning	
Hail	
Fog	
High Wind	
Snow	
Blizzard	
Extreme Cold	
Ice Storms	
Tornado	
Epidemic or pandemic	
Nuclear Power Plant Incident	
Widespread Power Outage	
Coastal Erosion	
Secondary Impacts from Mass Influx of Evacuees	
Hazardous Materials Incident	

Mitigation Action	Implement the North Glen Oak Acres Drain and Sewer Improvement Project with the Army Corps of Engineers	
Year Initiated	2019	
Applicable Jurisdiction		
Lead	Army Corp of Engineers; MWRD	
Agency/Organization		
Supporting	Glenview	
Agencies/Organizations		
Applicable Goal	Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events and potential damage from such activities.	
Applicable Objective	Provide or improve flood protection on a watershed basis with flood control structures and drainage maintenance plans.	
Potential Funding Source	MWRD	
Estimated Cost	\$3,860,000; MWRD Contribution: \$500,000	
Benefits (loss avoided)	TBD	
Projected Completion	TBD	
Date		
Priority and Level of		
Importance (Low,	High	
Medium, High)		
Benefit Analysis (Low,	High	
Medium, High)		
Cost Analysis (Low,	High	
Medium, High)		
Actual Completion		
Date		

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

Mitigation Action and Project Maintenance		
Year	Status	Comments
2019	New	Drafting intergovernmental agreement
2020		
2021		
2022		
2023		

Miti	gated Hazards
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
х	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

### **Ongoing Mitigation Actions**

The following are ongoing actions with no definitive end or that are still in progress. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 2.1	Maintain Cost-Sharing Resident Programs		
Status Description: Yes		0	
Completion status legend:			
N = NewO = Action Ongoing toward CompletionC = Project CompletedR = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 2.2	Participate in Clean Water Program (National Pollutant Discharge Elimination System)		
Status Description: Yes		0	
Completion status legend:         N = New       O = Action Ongoing toward Completion			
<b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Numbe Action Taken Y/N	r Action Item Description	Status (X, O, C, R, N)	
# 2.7	West Fork of the North Branch of the Chicago River Floodplain		
Status Description: Yes	Coordination ongoing with MWRD and a feasibility study with ACE (Section 205).	0	
Completion status legend:			
N = NewO = Action Ongoing toward CompletionC = Project CompletedR = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 2.11	Continue to support the countywide actions identified in this plan.		
Status Description: Yes		0	
Completion status legend:			
N = NewO = Action Ongoing toward CompletionC = Project CompletedR = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
	Actively participate in the plan maintenance strategy identified in this plan.		
Status Description: Yes		0	
Completion status legend:			
N = NewO = Action Ongoing toward CompletionC = Project CompletedR = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 2.14	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.		
Status Description: Yes		0	
Completion status legend:			
N = New O = Action Ongoing toward Completion			
<b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N		Status (X, O, C, R, N)	
	Where feasible, implement a program to record high water marks following high-water events.		
Status Description: Yes		0	
Completion status legend:			
N = NewO = Action Ongoing toward CompletionC = Project CompletedR = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 2.18	Develop "quick-win" projects for areas impacted by July 23, 2016 storm including (potentially) Golfview, north of Cole Park, Woodlawn and Longvalley/Culver.		
Status Description: Yes	In development, with some projects included in 10-yr CIP.	0	
Completion status legend:         N = New       O = Action Ongoing toward Completion         C = Project Completed       R = Want Removed from Annex X = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 2.19	Comply with MWRD's countywide sanitary sewer backup initiatives including 2017 smoke testing in high-priority areas.		
	Smoke testing has been completed and the Village continues to monitor and implement the infiltration and inflow program through sewer lining.		
Completion status legend:			
N = New	<b>O</b> = Action Ongoing toward Completion		
<b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken			

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 2.20	East of Harms Phase II project to install stormwater improvements benefiting 20 properties in the neighborhood.		
Status Description: Yes	Currently programed for 2019.	0	
Completion status legend:			
N = NewO = Action Ongoing toward CompletionC = Project CompletedR = Want Removed from Annex X = No Action Taken			

# Completed Mitigation Actions

The following section represents completed mitigation actions, and serves as an archive of identified and completed projects.

TABLE: ACTION PLAN MATRIX			
Action Number Action Taken Y/N	Action Item Description		Status (X, O, C, R, N)
# 2.3	East of Harms Regional Stormwater Project		
Status Description: Yes	Project completed benefitting 1,100 homes.		С
Completion status legend:			
<b>N</b> = New <b>C</b> = Project Cor	<b>O</b> = Action Ongoing toward Completion npleted <b>R</b> = Want Removed from Annex	<b>X</b> = No Action Taken	

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# 2.4	Dewes/Henley/Harlem Stormwater Conveyance and Detention	
Status Description: Yes	Project completed benefitting 200 homes.	С
Completion status legend:		
<b>N</b> = New <b>C</b> = Project Cor	<b>O</b> = Action Ongoing toward Completionmpleted <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken	

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 2.5	Glenview Park Golf Club Stormwater Detention				
Status Description: Yes	Project complete benefitting 130 homes.	С			
Completion sta	atus legend:				
N = NewO = Action Ongoing toward CompletionC = Project Completed R = Want Removed from AnnexX = No Action Taken					

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description		Status (X, O, C, R, N)	
# 2.6	Navy Bypass Sewer			
Status Description: Yes	Project complete.		С	
Completion st	atus legend:			
<b>N</b> = New <b>C</b> = Project Cor	<b>O</b> = Action Ongoing toward Completion mpleted <b>R</b> = Want Removed from Annex	<b>X</b> = No Action Taken		

TABLE: ACTION PLAN MATRIX				
Action	Action Item Description	Status		
Number		(X, O, C, R, N)		
Action Taken Y/N				
# 2.8	.Local Stormwater Implementation Plan 2014-2018 (\$2.5 million per year)			
Status	Awarded all projects briefed with funding.	С		
Description:				
Yes				
<b>Completion st</b>	atus legend:			
N = New	<b>O</b> = Action Ongoing toward Completion			
C = Project Co	mpleted <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken			

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 2.9	Update building and fire codes including expanded fire sprinklering				
Status Description: Yes	Updated all local building and fire codes.	С			
<b>Completion st</b>	atus legend:				
<b>N</b> = New <b>C</b> = Project Cor	<b>O</b> = Action Ongoing toward Completionmpleted <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken				

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# 2.10	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			
Status Description: Yes	Purchased/razed 17 floodway homes.	С		
Completion st N = New C = Project Col	atus legend: <b>O</b> = Action Ongoing toward Completion mpleted <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken			

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 2.13	Maintain or enhance the Village's status under the Community Rating System (CRS) program.				
Status Description: Yes	Just had last CRS coordination with FEMA/ISO and out rating was upgrading to a 5.	С			
Completion st N = New	<b>O</b> = Action Ongoing toward Completion				
<b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken					

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# 2.16	Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.			
Status Description: Yes	Included coordination with Village's Comp Plan update.	С		
Completion st	atus legend:			
<b>N</b> = New <b>C</b> = Project Cor	<b>O</b> = Action Ongoing toward Completionmpleted <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken			

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 2.17	Coordinate with School District 34 to construct regional detention at Lyon School site to benefit Bonnie Glen-area residents (340 homes).				
Status Description: Yes	An additional 4 acre feet of storage was constructed.	С			
Completion st N = New C = Project Col	atus legend: <b>O</b> = Action Ongoing toward Completionmpleted <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken				

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# 2.21	Wagner Farm neighborhood stormwater improvements benefiting 30 adjacent properties.			
Status Description: Yes	This quick win project was constructed in 2018.	С		
<b>Completion st</b> <b>N</b> = New <b>C</b> = Project Col	atus legend:O = Action Ongoing toward Completionmpleted R = Want Removed from AnnexX = No Action Taken			

Future Needs to Better Understand Risk/Vulnerability

None at this time.

# Additional Comments

None at this time.

# HAZUS-MH Risk Assessment Results

GLENVIEW EXISTING CONDITIONS				
2010 Population	44,692			
Total Assessed Value of Structures and Contents	\$10,153,576,431			
Area in 100-Year Floodplain	375.51 acres			
Area in 500-Year Floodplain	576.15 acres			
Number of Critical Facilities	85			

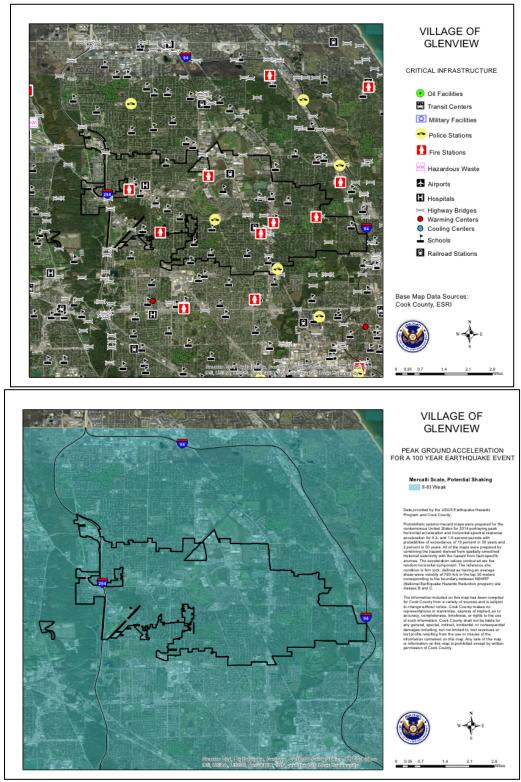
HAZARD EXPO	OSURE IN GL	ENVIEW				
	Number Exposed		Value Exposed	Value Exposed to Hazard		% of Total
	Population	Buildings	Structure	Contents	Total	Assessed Value Exposed
Dam Failure						
Buffalo Creek	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #2	0	0	\$0	\$0	\$0	0.00%
Touhy	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #4	0	0	\$0	\$0	\$0	0.00%
Flood	•	•		•		•
100-Year	319	98	\$45,272,775	\$29,278,170	\$74,550,945	0.73%
500-Year	1,099	338	\$182,309,721	\$124,490,698	\$306,800,419	3.02%
Tornado						
100-Year	-	<u> </u>	\$395,393,817	\$227,349,810	\$622,743,626	6.13%
500-Year	<b> </b>	<b> </b>	\$1,241,824,895	\$743,525,420	\$1,985,350,315	19.55%

ESTIMATED PRO	PERTY DAMAGE	VALUES IN GLENVIEW	V		
	Estimated Dan	nage Associated with	% of Total Assessed		
	Building	Contents	Total	Value Damaged	
Dam Failure					
Buffalo Creek	\$0	\$0	\$0	0.00%	
U. Salt Cr. #2	\$0	\$0	\$0	0.00%	
Touhy	\$0	\$0	\$0	0.00%	
U. Salt Cr. #3	\$0	\$0	\$0	0.00%	
U. Salt Cr. #4	\$0	\$0	\$0	0.00%	
Earthquake					

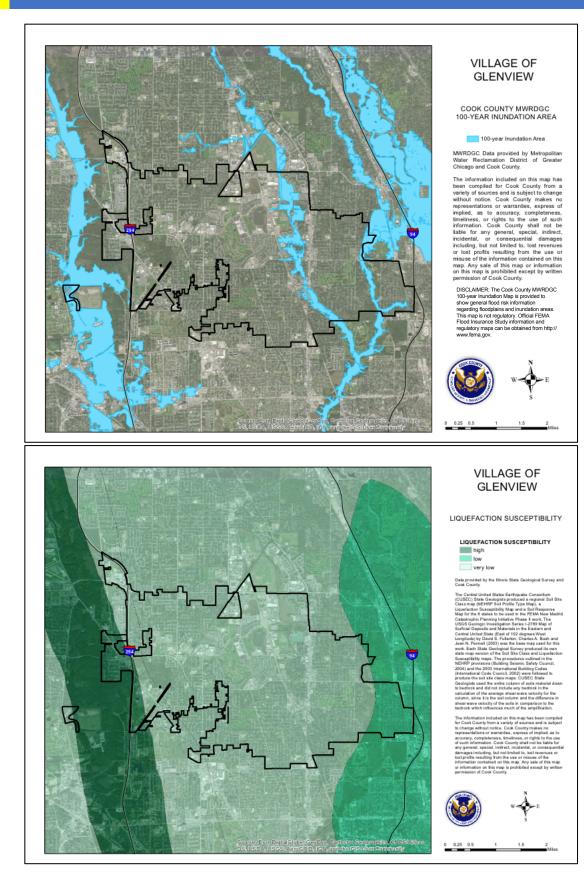
### VOLUME 2: COOK COUNTY HAZARD MITIGATION PLAN – GLENVIEW ANNEX

1909 Historical Event	\$19,554,220	\$3,697,244	\$23,251,464	0.23%
Flood				
10-Year	\$127,638	\$172,543	\$300,181	0.00%
100-Year	\$6,794,585	\$11,196,938	\$17,991,523	0.18%
500-Year	\$17,247,018	\$17,875,069	\$35,122,088	0.35%
Tornado		·	·	
100-Year	\$39,539,382	\$22,734,981	\$62,274,363	0.61%
500-Year	\$181,306,435	\$108,554,711	\$289,861,146	2.85%

# Hazard Mapping



#### VOLUME 2: COOK COUNTY HAZARD MITIGATION PLAN - GLENVIEW ANNEX



#### VOLUME 2: COOK COUNTY HAZARD MITIGATION PLAN - GLENVIEW ANNEX

