

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

Glencoe Annex

FINAL
July 2019

Prepared for:



Cook County
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Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
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Jurisdiction Profile

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

- **Date of Incorporation:** 1869
- **Current Population:** The 2018 US Census population estimate for Glencoe is 8,869.
- **Population Growth:** The population in the Village of Glencoe has remained fairly constant. Over the last 20 years, the population has increased and decreased slightly, but appears to be on a slightly upward trend.
- **Location and Description:** Glencoe is located in Cook County, 23 miles directly north of the Chicago Loop. According to the 2010 census, the Village has a total land area of 3.72 square miles. Glencoe is situated next to Lake Michigan. Its bluffs overlook the lake, cut by several ravines. It is separated from adjoining suburbs on the north and west by the Cook County Forest Preserve natural forest area. Three golf clubs also buffer it, with the private Lake Shore Country Club on the north, the public Glencoe Golf Club (operated by the Village of Glencoe) on the northwest, and the private Skokie Country Club on the west. The Village is surrounded on three sides by the communities of: Highland Park on the north, Northbrook on the west, and Winnetka to the south. The Skokie Lagoons are located in the forest preserves to the immediate west of the Village. The highest point of elevation in Glencoe is 690 feet above sea level along Green Bay Road in the northern part of the Village.
- **Brief History:** Glencoe was first incorporated in 1869 but was settled as early as 1839. It was originally inhabited by the Potawatomi Indians. When it was first settled the area was called Taylorsport after Anson Taylor, the first landowner. Early settlers followed Taylor to establish logging and charcoal businesses. In 1855, the rail line from Chicago to Waukegan made its first trip through what is now Glencoe. In 1867 real estate speculation began in earnest; a total of 26 houses existed in the Village when Glencoe was incorporated. From the 1880s through the 1920s, public improvements began as the Village started to take shape. Roads were graveled and a business district was formed. By 1919 storm sewers were installed and organized snow plowing began. The Village Hall opened in 1893 and a water pumping station was built in 1938. The Village was the first in the State to adopt the council-manager form of government in 1914. Glencoe's population grew steadily during the first half of the 20th century. In the 1950s, following WWII, the Village's population grew significantly from 7,000 to 10,000. Glencoe was originally developed as, and continues to be, a primarily residential community. Consequently there is limited commercial development within its boundaries, except for its downtown district, car dealerships on the west boundary, and a small shopping center at its southern boundary.
- **Climate:** Glencoe's average yearly high temperature is 82 degrees and the average low temperature is 13 degrees. Average yearly rainfall is 32 inches and average snowfall is 24 inches. The average number of days with any measurable precipitation is 110 and average days of sun exposure are 191.
- **Governing Body Format:** Glencoe has a Council-Manager form of government. The Village President and six other members of the Board of Trustees are elected for four years and serve without pay. The job of the Village Board is to levy taxes, appoint certain officials, establish policy, administer Village finances, oversee Village services, supervise Village planning, and handle legal matters. The Village Board will assume the responsibility for the adoption and implementation of this plan. There are five standing committees of the Board: Finance, Social Services, Law, Public Works and Golf. Each committee is chaired by a Trustee. Ad hoc

committees are established as needed. The function of these committees is to recommend policy to the Village Board. The village operates 4 departments including the Finance Department, Village Manager's Office, Public Safety Department, and the Public Works Department.

- **Development Trends:** Over the last 20 years the Village has experienced increasing redevelopment/reconstruction of existing residential properties. During this time the Village has focused on improvements to its infrastructure including: streets, sidewalks, curbs, and sewer & water systems. The business district has had brick sidewalks, natural stone planter boxes, and period street lights installed. Many public buildings have been or are being remodeled which include: the public schools, Village Hall, the Glencoe Library, Park District Community Center, and a refrigerated outdoor ice rink. The private golf clubs (Lake Shore Country Club and Skokie Country Club) have seen major remodeling, additions, and reconstruction. Future plans include a new clubhouse at the Glencoe Golf Club and renovation or construction of a new water treatment plant. Additionally there is a current strategic plan that goes through 2021, which focuses on six strategic priorities – financial sustainability, infrastructure replacement, community engagement, commercial vitality, operational effectiveness and organizational development. Glencoe also developed a Downtown Plan in 2016 and it was prepared over a three-year period of engagement between the Plan Commission and the community, a planning process referred to as the Downtown TuneUp. The name "TuneUp" was chosen deliberately in recognition that Downtown Glencoe isn't broken, but in need of updating to address current and future needs.

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.

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinances & Requirements					
Building Code	Yes	No	No	Yes	2009 International Building and 2009 International Residential Code Municipal Code 2013-21-3351 Adopted: 2013
Zonings	Yes	No	No	Yes	65 ILCS 5/) Illinois Municipal Code. Municipal Code 2013-10-3340 Adopted: 2013
Subdivisions	Yes	No	No	No	Municipal Code 2005-08-3128 Adopted: 2005
Stormwater Management	Yes	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Municipal Code 9-87 adopted: 2008
Post Disaster Recovery	Yes	No	No	No	Glencoe Public Safety All Hazards Plan Draft 2012
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	Yes	No	No	No	Comprehensive Plan
Site Plan Review	Yes	No	No	No	Municipal Code 7-504 adopted: 2000
Public Health and Safety	Yes	No	Yes	Yes	Cook County Board of Health. Municipal Code 89-11-1804 adopted: 1989
Environmental Protection	Yes	No	No	No	NPDES Adopted 2002
Planning Documents					
General or Comprehensive Plan	Yes	No	No	No	Village of Glencoe 1996

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<i>Is the plan equipped to provide linkage to this mitigation plan?</i>					No
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	Yes	No	Regional stormwater impacts are managed by MWRD. The Village lies within the North Branch Chicago River watershed planning area of MWRD's comprehensive Stormwater Master Planning Program
Capital Improvement Plan	Yes	No	No	No	
<i>Do not have stormwater management plan but do have CIP that is updated on an annual basis.</i>					
Habitat Conservation Plan	Yes	No	No	No	Audubon International
Economic Development Plan	No	No	Yes	Yes	
Shoreline Management Plan	Yes	No	No	No	Comprehensive Plan
Response/Recovery Planning					
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	Glencoe Public Safety All Hazards Plan Draft, Annex A2, 2012

Threat and Hazard Identification and Risk Assessment	Yes	No	Yes	No	Glencoe Public Safety 2004
Terrorism Plan	Yes	No	Yes	Yes	Glencoe Public Safety All Hazards Plan Draft, Annex L, 2012
Post-Disaster Recovery Plan	Yes	No	Yes	Yes	Glencoe Public Safety All Hazards Plan Draft: Annex E, D, F
Continuity of Operations Plan	Yes	No	Yes	No	Glencoe Public Safety All Hazards Plan Draft, IEMA 301.230b4, P. 33
Public Health Plans	Yes	No	Yes	No	Glencoe Public Safety All Hazards Plan Draft: Annex H, 2012

TABLE: FISCAL CAPABILITY	
Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	Yes

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Authority to Levy Taxes for Specific Purposes	No
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

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	Public Works/ Engineering/ Village Engineer
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works/ Building & Zoning/ Building & Zoning Administrator
Planners or engineers with an understanding of natural hazards	Yes	Public Works/ Engineering/ Village Engineer
Staff with training in benefit/cost analysis	Yes	Manager's Office/ Administration/ Village Manager
Surveyors	Yes	Public Works/ Engineering/ Sub Contractor
Personnel skilled or trained in GIS applications	Yes	Public Works/ MGP Inc./ GIS Coordinator
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Public Safety/ Emergency Coordinator
Grant writers	Yes	Public Safety

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE	
What department is responsible for floodplain management in your jurisdiction?	Public works
Who is your jurisdiction's floodplain administrator? (department/position)	Public works/Director
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	2008
When was the most recent Community Assistance Visit or Community Assistance Contact?	07/25/2007
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	No
Does your jurisdiction participate in the Community Rating System (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program?	No

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	Class 7 residential; Class 6 Commercial	06/2011
Public Protection (ISO Rating)	Yes	3	2012
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	Yes	Recognized	2012

Jurisdiction-Specific Natural Hazard Event History

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

The Natural Hazard Events Table lists all past occurrences of natural hazards within the jurisdiction.

- Repetitive flood loss records are as follows: Number of FEMA-Identified Repetitive Loss Properties: 0
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment
Flooding	-	7/23/2011	-
Severe Storm/ Thunder Storm- Wind	-	7/22/2011	-
Winter Weather	DR-1960	2/1/2011	\$26,432 (cost related to snow removal operations)
Wind	-	3/10/2009	-
Flooding	-	12/29/2008	-
Flooding	DR-1800	9/13/2008	-
Severe Storm/ Thunder Storm- Wind	DR-1729	8/20/2007	-
Severe Storm/ Thunder Storm- Wind	-	10/2/2006	-
Wind	-	5/11/2003	-
Flooding	DR-798	8/14/1987	-
Flooding	DR-776	9/26/1986	-
Winter Weather	-	1/1/1979	-

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: We have experienced flooding at Hazel Ave, the underpass, Skokie Heights, and parts of Sheridan Road.

Extreme Heat: Elderly residents and patrons at Glencoe Beach are vulnerable to extreme heat.

Extreme Cold: Similar to extreme heat, elderly residents are vulnerable to extreme cold.

Wind/Tornado: While no tornados have touched down, severe wind events have impacted the area.

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
1	Severe Winter Weather	54
2	Tornado	33
3	Earthquake	32
4	Flood	18
4	Drought	6
5	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: HAZARD MITIGATION ACTION PLAN MATRIX						
Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
Actions G1.1 —Forestry Department routine tree trimming/removal operations.						
Ongoing	Severe Weather, Severe Winter Weather, Tornado	1, 2	Public Works	\$150,000	General Fund	Annual
Actions G1.2 —Develop/Maintain Stormwater CIP.						
Ongoing	Flooding	1, 2, 3, 9	Public Works	\$4.8 million	Bonds	Ongoing, Short-term
Actions G1.3 —Continue Street Department routine street sweeping operations.						
Ongoing	Flooding	1, 2, 9	Public Works	\$80,000	General Fund	Annual
Actions G1.4 —Stormwater retention on new residential development.						
Ongoing	Flooding	1, 2, 3, 4, 9, 10	Public Works	\$10,000	Impact Fees	Ongoing
Actions G1.5 —Residential Guide to Stormwater Management.						
Ongoing	Flooding	1, 2, 3, 4, 6, 8, 9, 13	Public Works	\$1,000	General Fund	Ongoing, Short-term
Actions G1.6 —Erosion control on natural land stormwater passages (ravines & streams).						
Ongoing	Flooding	1, 2, 3, 9	Public Works	\$20,000	General Fund	Ongoing, Short-term
Actions G1.7 —Village Website as notification and information tool.						
Ongoing	All Hazards	5, 6	Admin	\$2,500	General Fund	Ongoing

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Actions G1.8 —Tornado Warning Siren.						
Ongoing	Tornado, Severe Weather	5, 6	PS	\$2,500	General Fund	Annual
Actions G1.9 —Annual All Hazard Plan exercise.						
Completed	All Hazard	1, 2, 3, 5, 6, 8	PS	\$500	General Fund	Completed
Actions G1.10 —Mass Notification Systems (Code Red and Everbridge).						
Completed	All Hazards	5, 6	PS	\$7,500	General Fund	Completed
Actions G1.11 —Public Asset vulnerability assessments.						
Completed	All Hazards	1, 2, 3, 4, 5, 6	PS	\$2,500	General Fund	Completed
Actions G1.12 —Com Ed System Hardening Actions.						
Ongoing	All	1, 2, 5, 6	Com Ed	\$0	N/A	Ongoing
Action G1.13 —Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.						
Ongoing	All	7, 13	Village of Glencoe	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action G1.14 —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.						
Ongoing	Flooding	4, 6, 9	Village of Glencoe	Low	General Fund	Short-term and ongoing
Action G1.15 —Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.						
Ongoing	All	3, 4, 6, 10, 13	Village of Glencoe	Low	General Fund	Short-term
Action G1.16 —Continue to support the countywide actions identified in this plan.						
Ongoing	All	All	Village of Glencoe	Low	General Fund	Short- and Long-term
Action G1.17 —Actively participate in the plan maintenance strategy identified in this plan.						
Ongoing	All	3, 4, 6	DHSEM, Village of Glencoe	Low	General Fund	Short-term
Action G1.18 —Target hardening of the Village Water Plant.						
Ongoing	Flood	9	TBD	TBD	TBD	Ongoing
Action G1.19 —Add security cameras to Glencoe Train Station.						
Ongoing	TBD	2	TBD	TBD	TBD	Ongoing
Action G1.20 —Add security cameras to strategic locations throughout the Glencoe Business District.						
Ongoing	TBD	2	TBD	TBD	TBD	Ongoing
Action G1.21 —Transition the Village of Glencoe's Emergency Mass Notification System from Everbridge to Rave Alert.						

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New	All	5, 6	Glencoe Public Safety	\$1,800; Low	Local Funds	09/2019
<p>(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.</p>						

TABLE: MITIGATION STRATEGY PRIORITY SCHEDULE

Action Number	Number of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)
1	2	Medium	Low	Yes	No	Yes	Medium
2	4	High	Low	Yes	No	Yes	Medium
3	3	Medium	Low	Yes	No	Yes	Medium
4	6	High	Low	Yes	No	Yes	High
5	8	High	Low	Yes	No	Yes	High
6	4	High	Low	Yes	No	Yes	High
7	4	Medium	Low	Yes	No	Yes	High
8	2	High	Low	Yes	No	Yes	High
9	6	High	Low	Yes	No	Yes	High
10	2	High	Low	Yes	No	Yes	High
11	6	High	Low	Yes	No	Yes	High
12	4	Medium	Low	Yes	No	N/A	High
13	2	High	High	Yes	Yes	No	Medium
14	3	Medium	Low	Yes	No	Yes	High
15	5	Medium	Low	Yes	No	Yes	High
16	13	Medium	Low	Yes	No	Yes	High
17	3	Low	Low	Yes	Yes	Yes	High
18	1	TBD	TBD	TBD	TBD	TBD	TBD
19	TBD	TBD	TBD	TBD	TBD	TBD	TBD
20	TBD	TBD	TBD	TBD	TBD	TBD	TBD
21	2	Medium	Low	Yes	No	Yes	High

(a) See Chapter 1 for explanation of priorities.

New Mitigation Actions

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

Action G-1.21

Mitigation Action	Transition the Village of Glencoe's Emergency Mass Notification System from Everbridge to Rave Alert
Year Initiated	2019
Applicable Jurisdiction	Glencoe Public Safety
Lead Agency/Organization	Glencoe Public Safety
Supporting Agencies/Organizations	Glencoe Public Safety
Applicable Goal	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. Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to impacts of natural hazards
Applicable Objective	Develop, improve, and protect systems that provide early warnings, emergency response communications, and evacuation procedures. Use the best available data, science and technologies to educate the public and 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 Source	Local Funds
Estimated Cost	\$1800
Benefits (loss avoided)	With the new system we will be able to alert our residents of before, during, or after an emergency situation.
Projected Completion Date	09/2019
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefit Analysis (Low, Medium, High)	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.
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.
Actual Completion Date	

Recommended Mitigation Action/Implementation Plan and Project Description	
Action/Implementation Plan and Project Description:	With the new system we will be able to alert our residents before, during, or after an emergency situation for both natural disasters and man made incidents. Our dispatch center will have IPAWS capabilities to reach additional citizens living or traveling through our community.

Mitigation Action and Project Maintenance

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Year	Status	Comments
2019	New	
2020		
2021		
2022		
2023		

Mitigated Hazards	
X	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

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.

Action G-1.1

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.1	Forestry Department routine tree trimming/removal operations	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.2

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.2	Develop/maintain Stormwater CIP	
Status Description: Yes	In 2017 the village completed improvements to the basins at Park Ave and Madison Ave.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.3

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.3	Continue Street Department routine street sweeping operations	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.4

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.4	Storm water retention on new residential development	
Status Description: Yes	Requirements are enforced with all single family development.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.5

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.5	Residential Guide to Storm water Management	
Status Description: Yes	Information provided to residents via Village website.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.6

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.6	Erosion control on natural land storm water passages (ravines & streams)	
Status Description: Yes	In 2017 the village completed Rockgate and Brentwood storm outfall and ravine restoration.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.7

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.7	Village Website as notification and information tool	
Status Description: Yes	Village website was redesigned and launched in February 2017.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.8

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.8	Tornado Warning Siren	
Status Description: Yes	In 2017 the tornado siren at Glencoe Golf Course was repaired. In 2018 the siren will be moved from its current location to the new West School site and converted from battery powered to hard-wired electrical.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.12

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.12	Com Ed System Hardening Actions	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.13

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.13	Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.14

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.14	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	The village is minimally impacted and only has a few properties in the flood plain.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.15

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.15	Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.16

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.16	Continue to support the county-wide actions identified in this plan	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.17

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.17	Actively participate in the plan maintenance strategy identified in this plan	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.18

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.18	Target hardening of the Village Water Plant	
Status Description: Yes	Preliminary meetings have been conducted with Forest Security.	O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.19

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.19	Add security cameras to Glencoe Train Station	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.20

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.20	Add security cameras to strategic locations throughout the Glencoe Business District.	
Status Description: Yes		O
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = 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.

Action G-1.9

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.9	Annual All Hazard Plan exercise	
Status Description: Yes	Active Shooter Table Top was completed with Glencoe Public Safety, Village of Glencoe, Glenview Public Safety Dispatch, and Glencoe School District 35.	C
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.10

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.10	Mass Notification Systems (Code Red & Everbridge)	
Status Description: Yes	Mass Notification system was given an overhaul. Code Red was dropped from Glencoe Public Safety and Everbridge is being used exclusively. Integrated Public Alert and Warning System (IPAWS) setup was completed with FEMA DHS and can be used through Everbridge.	C
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Action G-1.9

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# G-1.11	Public Asset vulnerability assessments	
Status Description: Yes	Charles DuShane from CCDHS came and completed a vulnerability assessment.	C
Completion status legend:		
N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken		

Future Needs to Understand Risk and Vulnerability

None at this time.

Additional Comments

None at this time.

HAZUS-MH Risk Assessment Results

GLENCOE EXISTING CONDITIONS	
2010 Population	8,723
Total Assessed Value of Structures and Contents	\$2,513,659,635
Area in 100-Year Floodplain	185.29 acres
Area in 500-Year Floodplain	191.49 acres
Number of Critical Facilities	26

HAZARD EXPOSURE IN GLENCOE						
	Number Exposed		Value Exposed to Hazard			% of Total Assessed Value Exposed
	Population	Buildings	Structure	Contents	Total	
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	3	1	\$985,513	\$492,756	\$1,478,269	0.06%
500-Year	0	0	\$985,513	\$492,756	\$1,478,269	0.06%
Tornado						
100-Year	—	—	\$291,273,454	\$167,252,597	\$458,526,051	18.24%
500-Year	—	—	\$577,378,063	\$291,976,559	\$869,354,621	34.59%

ESTIMATED PROPERTY DAMAGE VALUES IN GLENCOE				
	Estimated Damage Associated with Hazard			% of Total Assessed Value Damaged
	Building	Contents	Total	
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%

2019 COOK COUNTY HAZARD MITIGATION PLAN – GLENCOE ANNEX

Earthquake				
1909 Historical Event	\$4,677,288	\$726,729	\$5,404,016	0.21%
Flood				
10-Year	\$0	\$0	\$0	0.00%
100-Year	\$0	\$0	\$0	0.00%
500-Year	\$0	\$0	\$0	0.00%
Tornado				
100-Year	\$29,127,345	\$16,725,260	\$45,852,605	1.82%
500-Year	\$84,297,197	\$42,628,578	\$126,925,775	5.05%

Hazard Mapping





