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

Homewood Annex

FINAL

July 2019

Prepared for:



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

Toni Preckwinkle President Cook County Board of Commissioners William Barnes Executive Director Cook County Department of Homeland Security & Emergency Management

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Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
John D. Schaefer	Napoleon Haney
Director of Public Works	Asst. Village Manager
17755 Ashland Avenue	2020 Chestnut Road
Homewood, IL. 60430	Homewood, IL 60430
Telephone: 708-417-0861	Telephone: 708-206-3376
Email Address:	Email Address:
jschaefer@village.homewood.il.us	<u>nhaney@homewoodil.gov</u>

Jurisdiction Profile

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

- Date of Incorporation: 1893
- Current Population: The 2018 US Census population estimate was 18,885.
- **Population Growth:** Based on the data tracked by the U.S. Census Bureau, Homewood has experienced a relatively flat rate of growth. The overall population has decreased around 1 percent from 2010 to 2016.
- Location and Description: The village is located just 22 miles away from Downtown Chicago and about a mile from three major interstate highways (I-57, I-80 and I-294). Homewood is bordered by East Hazel Crest to the north, Flossmoor to the south, Thornton to the east, and Country Club Hills and Hazel Crest to the west. According to the 2010 census, the village has a total area of 5.26 square miles.
- Brief History: Homewood sits on the edge of prehistoric Lake Chicago, which was formed by retreating glaciers long before Lake Michigan. One of the main east-west roads through the town, Ridge Road, runs along the old sandy shoreline of that lake. The area is rich in limestone deposits, and neighbors Thornton Quarry. In its beginning, the area featured excellent topsoil, making it an appealing place for farmers to settle. In the 1920s, Homewood became an important railroad depot, and many IC workers and their families moved to the area. Automobiles became a common sight on the streets of downtown. Homewood Flossmoor High School opened its doors in 1959. Almost immediately afterward, in 1962 and 1966, large additions were made to the school. In 1993, Homewood celebrated its centennial. Summer saw scores of festivals, parades, and a play celebrating the history of Homewood.
- Climate: The climate of the Village of Homewood and the Chicago area is classified as humid continental, with all four seasons distinctly represented: wet springs; hot and humid summers; pleasant autumns; and cold winters. Annual precipitation is average, and reaches its lowest points in the months of January and February, and peaks in the months of May and June. Winter proves quite variable. Seasonal snowfall in the city has ranged from 9 – 90 inches. The daily average temperature in January at Midway Airport is 24.8 °F (-4.0 °C), and temperatures often stay below freezing for several consecutive days or even weeks in January and February. Temperatures drop to or below 0 °F (-18 °C) on 5.5 nights annually at Midway and 8.2 nights at O'Hare. Spring in the Chicago area is perhaps the city's wettest and unpredictable season. Winter like conditions can persist well into April and even occasionally into May. Thunderstorms are especially prevalent in the spring time as the city's lakeside location makes it a center of conflicts between large volumes of warmer and colder air, triggering many kinds of severe weather. Temperatures vary tremendously in the springtime; March is the month with the greatest span between the record highs and lows. On a typical summer day, humidity is usually moderately high and temperatures ordinarily reach anywhere between 78 and 92 °F (26 and 33 °C). The extreme heat that the Chicago area is capable of experiencing during the height of the summer season can persist into the autumn season. Temperatures have reached 100 degrees high and subzero lows below –18 °C. Fall can bring heavy thunderstorms, many of which are capable of producing flooding. The average first accumulating snow occurs around Nov 19.

- Governing Body Format: Homewood operates under the council-manager form of government. The Board of Trustees consists of six Trustees, a Village President, and a Village Clerk, all elected to four year terms. In this form of government, the Board has only legislative power, except that it is empowered to approve all expenses and liabilities of the municipality. For certain purposes, the Village Manager is both the administrative and executive head of the government. The elected officials are the community leaders and policy makers who establish a vision for the Village, and who hire a Village Manager to carry out policy and ensure that all residents are being equitably served. This body of Government will assume the responsibility for the adoption and implementation of this plan. The Village Manager coordinates the work of department heads and other employees who help ensure the smooth and efficient delivery of services. The Village of Homewood operates 6 departments including the Community Development Department, Finance Department, Fire Department, Manager's Office, Police Department, and Public Works Department.
- Development Trends: Homewood has a positive and working diversity of residential, retail, business and industrial uses. Even with all this development the village has sustained a great natural feeling to it and is aesthetically pleasing because of the plethora of open space, parks, trees, flowers and other vegetation. The population surrounding Homewood is large and well educated, which is an asset to any business' labor force or consumer base. There are some great development opportunities in Homewood including the developing Prairie Lakes Business Park. The Village has adopted a comprehensive plan that will guide all future development and redevelopment. In May 2018, the Triumph building at 2033 Ridge Road was purchased by the village, which hopes to attract a developer to construct a transit-oriented mixed-use project on the site.

Capability Assessment

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

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinances	& Requireme	ents			
Building Code	Yes	No	Yes	Yes	HMC Chapter 22/10-23- 12
Zonings	Yes	No	No	Yes	HZO/4-19-02
Subdivisions	Yes	No	No	No	HMC Chapter 98/8-26- 97
Stormwater Management	Yes	No	Yes	Yes	HMC Chapter 46, 7-22- 08
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	No	No	No	No	
Site Plan Review	Yes	No	No	No	HZO/4-19-02
Public Health and Safety	Yes	No	Yes	Yes	HMC Chapters 22,42,50,90,110,114/8- 26-97
Environmental Protection	Yes	No	No	No	HMC Chapter 46,1965
Planning Documents					

General or Comprehensive Plan	Yes	No	No	No	M-1383/5-25-99
Is the	Yes				
Floodplain or Basin Plan	Yes	No	Yes	No	
Stormwater Plan	Yes	No	Yes	No	MWRD Detailed Watershed Plan
Capital Improvement Plan	Yes	No	No	No	M-1383/5-25-99
	What typ	pes of capital fa	cilities does the pl	lan address?	All Infrastructure
		How ofter	n is the plan revise	ed/updated?	Annually
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	No	No	No	Yes	The Economic Development Commission is charged with reviewing all economic development related programs and incentives including tax incentives offered through the Cook County 6b program.
Shoreline Management Plan	No	No	No	No	
Response/Recovery	Planning				
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	2018
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County DHSEM Preparing THIRA
Terrorism Plan	No	No	Yes	Yes	Cook County DHSEM
Post-Disaster Recovery Plan	No	No	No	No	
Continuity of Operations Plan	No	No	Yes	No	Cook County DHSEM
Public Health Plans	No	No	Yes	No	Cook County DPH

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	Yes
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	No
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	Community Development/ Village of Homewood/ Director of Community Development			
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works/ Village of Homewood/ Village Engineer			
Planners or engineers with an understanding of natural hazards	Yes	Public Works/ Village of Homewood/ Village Engineer			
Staff with training in benefit/cost analysis	Yes				
Surveyors	Yes				
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium			
Scientist familiar with natural hazards in local area	Yes				

Emergency manager	Yes	Cook County DHSEM
Grant writers	Yes	

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?	MC-805, Amended 7-22-08			
When was the most recent Community Assistance Visit or Community Assistance Contact?	03/31/1999			
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	No			
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	Yes			
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	Yes, Training			
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			

TABLE: COMMUNITY CLASSIFICATIONS					
	Participating?	Classification	Date Classified		
Community Rating System	No	N/A	N/A		
Building Code Effectiveness Grading Schedule	Yes	PL5 CL4	2013		
Public Protection/ISO	Yes	4	2011		
StormReady	Yes	Gold (Countywide)	2014		
Tree City USA	Yes	N/A	Ongoing		

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: 5
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

TABLE: NATURAL HAZARD EVENTS					
Type of Event FEMA Disaster Number (if applicable) Date		Date	Preliminary Damage Assessment		
Severe Weather	-	7/2/2017	-		
Severe Weather	-	2/28/2017	-		
Severe Weather	-	6/30/2014	-		
Hail	-	5/20/2014	-		
Severe Storm & Flooding	DR-4116	4/18/2013	Village incurred \$20,000 in costs due to flooding		
Severe Winter Storm	DR-1960	1/31/2011	-		
Severe Storm & Flooding	DR-1935	7/19/2010	Village incurred \$35,000 in costs due to flooding		
Severe Storm & Flooding	DR-1800	9/13/2008	-		
Severe Storm & Flooding	DR-1729	8/20/2007	-		
Flooding	DR-1188	8/16/1997	-		
Flooding	DR-1129	7/17/1996	-		
Severe Storm & Flooding	DR-997	4/13/1993	-		
Severe Storm & Flooding	DR-798	8/13/1987	-		

Severe Storm & Flooding	DR-776	9/21/1986	-
Severe Storm & Flooding	DR-643	6/30/1981	-
Severe Storm & Flooding	DR-509	6/18/1976	-
Severe Storm & Flooding	DR-373	4/26/1973	-
Severe Storm & Flooding	DR-351	9/4/1972	-
Blizzard	EM-3068	1/16/1979	-

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: The Village is vulnerable to flooding along Ridge Road (homes and road) and Chayes Park Drive (road closed and culvert collapsed).

Widespread Power Outage: The village is at risk of life and property in the event of a power outage. When power is lost 7 sanitary sewer lift stations and 1 potable water pump station will not be functional if emergency power is not provided

Severe Weather: The late afternoon into the evening of Tuesday, February 28, 2017 brought a favorable setup for severe weather, including strong tornadoes across much of the Mid-Mississippi Valley and Lower Great Lakes regions. There were seven tornadoes confirmed in the NWS Chicago county warning area. Large hail was reported in numerous areas.

High Winds: The Village is vulnerable to mass power outages as a result of high wind, causing the following potential impacts: lift stations without power (basement back-ups), water pump station without power (loss of potable water difficulty fire fighting).

Ice Storms: Ice storms pose potential power outages at pump stations throughout the Village.

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	26			
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: HAZARD MITIGATION ACTION PLAN MATRIX					
Status	Hazards Mitigated	Objective s Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projecte d Completion Date (a)
hazard-pro	Action H12.1—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 Homewood	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action H12	.2—Continue to sup	port the co	untywide actio	ons identified	in this plan.	
Ongoing	All	All	Village of Homewood	Low	General Fund	Short- and long- term
Action H12	Action H12.3—Actively participate in the plan maintenance strategy identified in this plan.					
Ongoing	All	3 ,4, 6	DHSEM, Village of Homewood	Low	General Fund	Short-term
Action H12.4—Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.						

Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Homewood	Low	General Fund	Long-term
Action H12.5—Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.						
Ongoing	Flooding	4, 6, 9	Village of Homewood	Low	General Fund	Short-term and ongoing
Action H12 events.	.6—Where feasible,	, implement	a program to	record high w	vater marks fo	llowing high-water
Ongoing	Flooding, Severe Weather	3, 6, 9	Village of Homewood	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
	.7—Integrate the had use or redevelopm	-	tion plan into o	other plans, p	programs, or r	esources that
Ongoing	All	3, 4, 6, 10, 13	Community Developmen t	Low	General Fund	Short-term
	2.8 —Continue to pa s with adjoining juri:	•			-	
Complete d	All	1, 8	Public Works, Fire, Police	Low	General Fund	Completed
Action H12	.9—Revise Homewo	ood Emerge	ncy Operation	Plan to coinc	ide with Haza	rd Mitigation Plan.
Complete d	All	1, 4	Public Works	\$3,500; Low	General Fund	Completed
Action H12	Action H12.10—Replace two -42" steel culverts.					
New	Flood	2, 7	VIIIage of Homewood	\$250,000; High	Grant	2022
Action H12	Action H12.11—Emergency Power.					
New	Flood, Widesprea d Power Outage	1, 2, 12, 13	Village of Homewood	\$1,600,000 ; High	Grants/Loc al	2021
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: MITIGATION STRATEGY PRIORITY SCHEDULE						
Action Number	Number of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	ls Project Grant- Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)
1	2	High	High	Yes	Yes	No	Medium
2	13	Medium	Low	Yes	No	Yes	High
3	3	Medium	Low	Yes	Yes	Yes	High
4	9	Medium	Low	Yes	No	Yes	Medium
5	3	Medium	Low	Yes	No	Yes	High
6	3	Medium	Medium	Yes	Yes	No	Medium
7	5	Medium	Low	Yes	No	Yes	High
8	2	High	Low	Yes	No	Yes	Medium
9	2	High	Low	Yes	No	Yes	High
10	2	High	High	Yes	Yes	Yes	High
11	4	High	High	Yes	Yes	Yes	High
a. See Cha	a. See Chapter 1 for explanation of priorities.						

New Mitigation Actions

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

Mitigation Action	Replace two -42" steel culverts
Year Initiated	2019
Applicable Jurisdiction	Village of Homewood/Public Works
Lead Agency/Organization	VIIIage of Homewood
Supporting 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. Promote public understanding of and support for hazard mitigation.
Applicable Objective	 Increase the resilience of (or protect and maintain) infrastructure and critical facilities. Retrofit, purchase, or relocate structures in high hazard areas, including those known to be repetitively damaged.
Potential Funding Source	Grant
Estimated Cost	250,000
Benefits (loss avoided)	Prevent road from collapse and vehicles being swept away
Projected Completion Date	2022
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefit Analysis (Low, Medium, High)	High—Project will provide an immediate reduction of risk exposure for life and property.
Cost Analysis (Low, Medium, High)	High—Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases).
Actual Completion Date	

Recommended Mitigation Action/Implementation Plan and Project Description

Action /Implementation	Current 42" steel pipe is failing under the road way which is blocking the flow of storm water and causes water to flow over the roadway at a high rate of
Plan and Project	of storm water and causes water to flow over the roadway at a high rate of
Description:	current and is causing the road to fail. Need to replace steel pie with concrete
Description.	box culvert large enough to except the flow from upstream.

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

	Mitigated 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	Emergency Power
Year Initiated	2019
Applicable Jurisdiction	Village of Homewood/Public Works
Lead Agency/Organization	Village of Homewood
Supporting 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. Develop, promote, and integrate mitigation action plans.
Applicable Objective	 Eliminate or minimize disruption of local government operations caused by natural hazards through all phases of emergency management. Increase the resilience of (or protect and maintain) infrastructure and critical facilities. Reduce natural hazard-related risks and vulnerability to potentially isolated populations within the planning area. Encourage hazard mitigation measures that result in the least adverse effect on the natural environment and that use natural processes.
Potential Funding Source	Grants/Local
Estimated Cost	1,600,00
Benefits (loss avoided)	Maintain water supply/ prevent sewer backups
Projected Completion Date	2021
Priority and Level of Importance (Low, Medium, High)	High Priority
Benefit Analysis (Low, Medium, High)	High—Project will provide an immediate reduction of risk exposure for life and property.
Cost Analysis (Low, Medium, High)	High—Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases).

Actual Completion Date	

	Recommended Mitigation Action/Implementation Plan and Project Description				
Action/Implementation Plan and Project Description:	When power is lost these 7 sanitary sewer lift stations and 1 potable water pump station will still be functional if emergency power is provided				

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

	Mitigated 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			
Х	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			
# H—12.1	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.			
StatusIn recent years there has not been major flooding in the prone area effected, so there is a unwillingness to for residents to sell property, and along with funding criteria makes this difficult a difficult program				
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				
# H—12.2	Continue to support the countywide actions identified in this plan.				
Status Description: Yes	Description: Continue to update building codes, zoning code, and emergency plans. Village building code update will be done 2019.				
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				
# H—12.3	Actively participate in the plan maintenance strategy identified in this plan.				
Status Description: Yes	Homewood will continue to be a active partner with Cook County with the opportunity to review and expand on polices contained in the HMP				
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			
# H—12.4	Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.			
Status Description: Yes	n: Homewood is a Tree City, and is currently looking at becoming a Rain Ready/Storm Ready community			
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	umber Action Item Description				
# H—12.5	Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.				
StatusThe village participates in floodplain mapping update and provides assistanceDescription:to residents regarding floodplain impacts. We have not started the reviewYesprocess to update any new NFIP requirments					
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				
# H—12.6	Where feasible, implement a program to record high water marks following high-water events.				
Status Description: No	We have not set-up a process to record this information, but hope to in the next few years				
C = Pro	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			
# H—12.7	Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.			
Status Description: Yes	scription: is done to determine if language needs to be changed or added to meet the			
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.

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description				
# H—12.8	Continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions for cooperative response to all hazards and disasters.				
Status Description: Yes	Description: Currently have agreements with 73 communities and 7 state and/or regional agencies. These agreements include Police. Fire, and Public Works				
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			
# H - 12.9	Revise Homewood Emergency Operation Plan to coincide with Hazard Mitigation Plan			
Status Description: Yes	The Homewood Emergency Operation Plan was updated and approve by Homewood Village Board and Cook County in 2018			
Completion status legend:N = NewO = Action Ongoing toward CompletionC = Project CompletedR = Want Removed from AnnexX = No Action Taken				

Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

Additional Comments

No additional comments at this time

HAZUS-MH Risk Assessment Results

HOMEWOOD EXISTING CONDITIONS				
2010 Population	19,323			
Total Assessed Value of Structures and Contents	\$4,858,940,861			
Area in 100-Year Floodplain	115.90 acres			
Area in 500-Year Floodplain	144.78 acres			
Number of Critical Facilities	57			

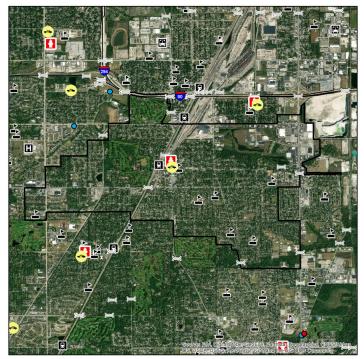
HAZARD EXPOSURE IN HOMEWOOD							
r	Number	Exposed	Value Expos	ed to Hazard		% of Total	
	Population	Buildings	Structure	Contents	Total	Assessed Value Exposed	
Dam Failure							
Buffalo Creek	0	0	\$0	\$0	\$0	0.00%	
U. Salt Cr. #2	0	0	\$0	\$0	\$0	0.00%	
Touhy	0	0	\$0	\$0	\$0	0.00%	
U. Salt Cr. #3	0	0	\$0	\$0	\$0	0.00%	
U. Salt Cr. #4	0	0	\$0	\$0	\$0	0.00%	
Flood							
100-Year	91	28	\$5,950,399	\$2,975,200	\$8,925,599	0.18%	

500-Year	195	60	\$12,462,669	\$6,231,334	\$18,694,003	0.38%
Tornado						
100-Year	_	_	\$197,158,597	\$118,533,880	\$315,692,477	6.50%
500-Year	—	_	\$593,653,174	\$383,846,065	\$977,499,238	20.12%

ESTIMATED PROPERTY DAMAGE VALUES IN HOMEWOOD								
	Estima	% of Total Assessed Value						
	Building	Contents	Total	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								
1909 Historical Event	\$16,973,042	\$4,295,802	\$21,268,845	0.44%				
Flood								
10-Year	\$5,916	\$2,151	\$8,067	0.00%				
100-Year	\$483,668	\$203,483	\$687,151	0.01%				
500-Year	\$1,043,501	\$563,290	\$1,606,790	0.00%				

Tornado								
100-Year	\$19,715,860	\$11,853,388	\$31,569,248	0.65%				
500-Year	\$86,673,363	\$56,041,525	\$142,714,889	2.94%				

Hazard Mapping





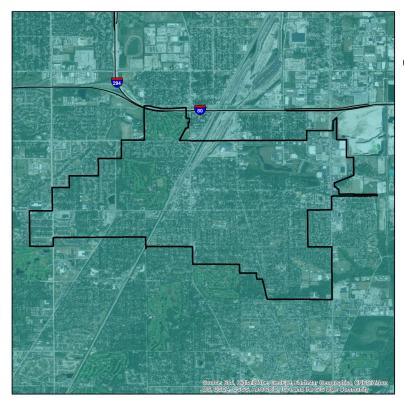


Airports Hospitals Highway Bridges
 Warming Centers
 Cooling Centers
 Schools

Railroad Stations

Base Map Data Sources: Cook County, ESRI





VILLAGE OF HOMEWOOD

PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

Mercalli Scale, Potential Shaking II-III Weak

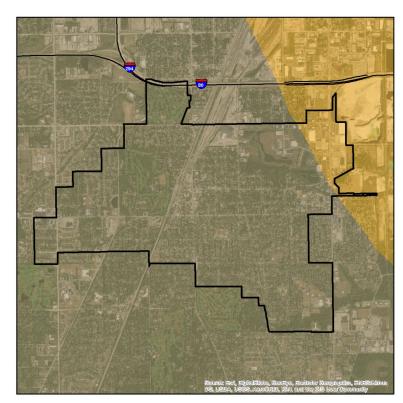
Data provided by the USGS Earthq Program and Cook County.

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0 0.175 0.35



VILLAGE OF HOMEWOOD

NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

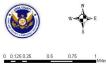
TYPE

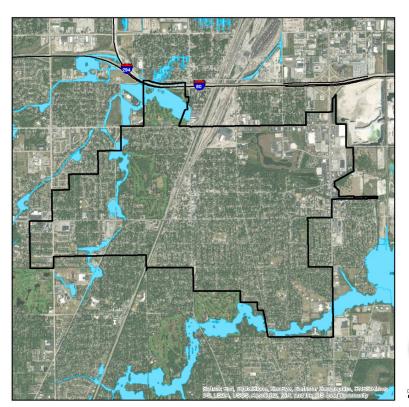
C - Very Dense Soil, Soft Rock D - Stiff Soil

F- Site Specific Evaluation

Data provided by the Illinois State Geological Survey and Cook. Courty. The Control United States Exhiputate Consortium (CUUSC) State Coopings produces a regional Sol State Class may NEHRP Sol Profer Type May, a United States and States and States cast properties and Marking in the Eastern and Cooping States and States a

bedrock which influences much of the amplification. The arformation included on them angle base encomplied for Cook county from a variety of bources and is abject representations of the county from a variety of bources and is abject to the second of the second of the second of the accuracy, completeness, more ables, or rights to the use of protein residue. Our county during the stable for damages including, but not limited to, bot revenues of the damages including, but not limited to, bot revenues of the or information on this may is prohibited except by written permission of County.





VILLAGE OF HOMEWOOD

COOK COUNTY MWRDGC 100-YEAR INUNDATION AREA

100-year Inundation Area

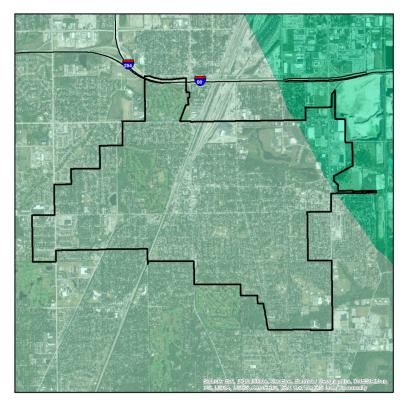
MWRDGC Data provided by Metropolitan Water Reclamation District of Greater Chicago and Cook County.

Chicago and Cook County. The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notices. Cook County makes of implied, so to accuracy, completeness, timelines, or orghts to the use of such information. Cook County shall not be liable for any general, special, indirect, including, but not timited to lost revenues or to 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.

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



0 0.125 0.25 0.5 0.75 1 Miles



VILLAGE OF HOMEWOOD

LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY

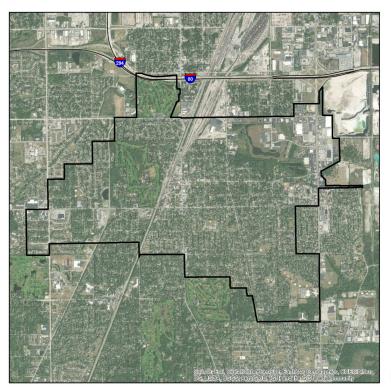
high low very low

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

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bedrock which influences much of the amplification. The information included on this map be been complied to Cook County from a variety of sources and is subject to change without chance. Cook County makes no representations or warrantes, express of mpilet, as to or sharpe without chances. Interesters, or more than the distance of the control of the label for distances. Cook County frain not be label for distances information. Cook County frain the label for distances information. Cook County and the label for distances information. Cook County and the label for distances information. Cook County and the label for distances information on the origin part of the maps of profiles of the map is prohibited except by written permission of County.





VILLAGE OF HOMEWOOD

100- AND 500- YEAR TORNADO EVENTS

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

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



0.75