

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

Elmwood Park Annex

FINAL

July 2019

Prepared for:



Cook County
Department of Homeland Security and Emergency Management
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Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
Mike Terzo, Fire Chief 7 Conti Parkway, Elmwood Park, IL. 60707 (708) 452-3933 mterzo@elmwoodpark.org	Kim Parrilli, Assistant Village Manager 11 Conti Parkway, Elmwood Park, IL. 60707 (708) 452-3914 kparrilli@elmwoodpark.org

Jurisdiction Profile

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

- **Date of Incorporation:** 1914
- **Current Population:** 24,263 based upon the 2018 US Census population estimates.
- **Population Growth:** Based on census data and Wolfram Mathematical calculations, the Village of Elmwood Park has experienced slight population growth, with population over the last 23 years between 23,000 and 25,000. Population increased 7.7% from 1990 to 2011, however, from 2010 to 2016, the population has decreased about 1 percent.
- **Location and Description:** The Village of Elmwood Park is location in the western Chicago metropolitan area, approximately 9 miles northwest of the Chicago city center. The Village is bordered by the City of Chicago to the north and east, the Village of River Forest to the south and the Village of River Grove to the west. The Village is 6 miles southeast of O'Hare International airport, and centered between three major interstates: I-90 to the northeast, I-294 to the west, and I-290 to the south. The Village elevation is 643 ft. Population density is 13,046 people per square mile. The Village is home to a high school, middle school, two elementary schools, and an early childhood center.
- **Brief History:** Historical maps of the area show Native American village sites located in area that is now the Elmwood Park/River Grove area. During the 1800s, this southeast corner of Leyden Township was called Ellsworth, and then Orson. The area was included in settlement area around Fort Dearborn and was used as farmland in the early 19th century. Several brooks crisscross the land, which during flooding in the spring would form a series of four "lakes." Further development of the area came from land grants given to local chiefs who befriended European settlers and other settlers in the mid -19th century. Around 1870, railroad rights granted by local landowners created urbanization leading to the development of the Grand and Harlem Area. A real estate boom occurred at the turn of the 20th century in the area, leading to the purchase and development of the Westwood subdivision in 1926. Another rapid building expansion occurred after the end of World War II. The community has long maintained a large Italian-American population, with a more recent influx of Polish-American and Hispanic residents.
- **Climate:** The nearest weather station for Elmwood Park is at O'Hare International Airport. Temperatures reach an average low of 22°F in January and an average high of 73°F in July. Average monthly rainfall is 3", with a peak of 4.6" average monthly rainfall in August. Average yearly total rainfall is 36.27". Weather is typical of the Ohio Valley weather region, with periods of drought and heavy rainfall. Prevailing winds are from the west at 12 mph from December through March, northeast at 11 mph April through June, southwest at 9 mph in July and August, and from the south at 10 mph September through November. Annually, average wind prevails from the west, with an average of 11 mph and a peak wind gust of 84 mph. The relative humidity typically ranges from 44% to 91% over the course of the year, rarely dropping below 25% and reaching as high as 100%. May is typically the month with the lowest humidity, and August is the most humid.

- **Governing Body Format:** The Village of Elmwood Park is governed by a 6 member board of trustees, with an elected Village President and Clerk. Administration also includes a Village Attorney, Village Manager, Village Collector (Village Clerk may act as the Collector), Finance Director, and Assistant to the Village President/Personnel Administrator. This body will assume the responsibility for the adoption and implementation of this plan. There are also provisions for a Village Engineer, Village Cable Officer, and an Ethics Advisor. There are 10 departments: Code Administration, Finance Department, Fire Department, Health Services, Parks and Recreation, Police Department, Public Works, Senior Programs Village Hall Services, and Water Department. Special committees, commissions, and task forces include: Board of Local Improvements; Parks and Recreation Board; Senior Citizen Advisory Council; Ethics Commission; Emergency Telephone System Board; Board of Fire and Police Commissioners; Arts, Humanities and Special Events Commission; Economic Development Commission; Plan, Zoning, and Development Commission; and Youth Commission. A Traffic and Safety Commission has also been proposed.
- **Development Trends:** Anticipated development levels for Elmwood Park are moderate, consisting of both residential and retail development. The majority of recent development has been infill. There has been a focus on attracting more retail to its corridors. The Village of Elmwood Park adopted a comprehensive plan in 2013. The plan focuses on issues of the greatest concern to the community. Village actions such as those relating to land use allocations, zoning, design review, redevelopment and capital improvements must be consistent with such a plan. Future growth and development in the Village will be managed as identified in the general plan. In 2018, approval was given to start 2 new residential developments and also to transform the old Sears Automotive site on Harlem Ave.

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 & Requirements					
Building Code	Yes	No	No	Yes	Adopted the International Residential Code (latest edition)
Zonings	Yes	No	No	Yes	Village of Elmwood Park Zoning Ordinance last updated 7/18/11
Subdivisions	No	No	No	No	
Stormwater Management	No	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA.
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	Yes	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act. Chapter 41A of the Code of the Village of

					Elmwood Park June 2000
Growth Management	No	No	No	No	
Site Plan Review	No	No	No	No	
Public Health and Safety	Yes	No	No	No	Chapter 25 "Health & Sanitation" of the Code of the Village of Elmwood Park, May 2002
Environmental Protection	No	No	No	No	
Planning Documents					
General or Comprehensive Plan	Yes	No	No	No	Comp Plan adopted April 1, 2013
<i>Is the plan equipped to provide linkage to this mitigation plan?</i>					Yes
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	No	No	
Capital Improvement Plan	No	No	No	No	
<i>What types of capital facilities does the plan address?</i>					N/A
<i>How often is the plan revised/updated?</i>					N/A
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	No	No	Yes	Yes	The Economic Development Commission is charged with reviewing all economic development related programs and incentives including tax incentives offered through the Cook

					County 6b program.
Shoreline Management Plan	No	No	No	No	
Response/Recovery Planning					
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	Elmwood Park Emergency Operations Plan
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	Yes	No	Yes	No	Tripcom Pharmaceutical Distribution & Cook County DPH

TABLE: FISCAL CAPABILITY	
Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	No
State Sponsored Grant Programs	Yes

Development Impact Fees for Homebuyers or Developers	No
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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	Christopher B. Burke Engineering (CBBEL), Village Engineer
Engineers or professionals trained in building or infrastructure construction practices	Yes	Building Commissioner, Village of Elmwood Park
Planners or engineers with an understanding of natural hazards	Yes	CBBEL
Staff with training in benefit/cost analysis	Yes	Finance Director, Village of Elmwood Park
Surveyors	Yes	CBBEL
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Fire Chief
Grant writers	Yes	CBBEL

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)	Director of Public Works - Village Engineer
Are any certified floodplain managers on staff in your jurisdiction?	Yes, through CBBEL
What is the date of adoption of your flood damage prevention ordinance?	
When was the most recent Community Assistance Visit or Community Assistance Contact?	02/13/1996
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; Undecided

TABLE: COMMUNITY CLASSIFICATIONS

	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	Unknown	Unknown
Public Protection/ISO	Yes	ISO 3	July 26, 2011
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	No	N/A	N/A

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: 10
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties: 0

TABLE: NATURAL HAZARD EVENTS			
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment
Severe Weather	-	9/25/2018	-
Severe Weather-Overland Flooding	DR-1960	1/2011	\$41,444.97
Severe Weather-Overland Flooding	DR-1800	9/2008	\$52,161.28
Severe Weather-Overland Flooding	DR-1729	8/2007	\$113,684.00

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: Previously, during heavy (100 yr.) rain events the community has experienced street flooding on 73rd Ave and Bloomingdale and various streets where sewers are covered with debris. In 2011, Thunderstorms produced torrential rainfall across central and southeast Cook County with rainfall rates between 2 and 4 inches per hour which caused widespread flash flooding. In Elmwood Park, several feet of water covered Oak Leaf Avenue with numerous cars stranded in the flood waters. About eight cars were stalled out along 80th Avenue. In 2014, An isolated thunderstorm dropped south across Cook County producing heavy rains that resulted in isolated flooding. A CoCoRaHS observer measured 1.18 inches in 35 minutes.

Extreme Heat: The Village's elderly population is susceptible to the impacts of extreme heat-induced power outages. In 1996, three days of heat indices above 100 degrees, contributed to a death in Elmwood Park.

Lightning: Previously, the Village's power lines were affected by lightning strikes.

High Winds: The Village of Elmwood Park has experienced loss of power as a result of downed trees and power lines from high winds. In 2018, a tree was blown down through a fence.

Snow: The community experiences difficulty maintaining the safety of the streets following heavy snow events.

Blizzards: The community struggles to remove snow following blizzards.

Extreme Cold: Previously, the Village has experienced frozen pipes during extreme cold events. In 2011, an 82-year-old male died from cold exposure in Elmwood Park in Cook County on January 16th. Low temperatures were in the single digits.

Ice Storms: The community has experienced downed power lines and fallen tree limbs after ice storms.

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	Tornado	54
4	Earthquake	36
5	Flood	18
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	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
Action E6.1 —Flood Mitigation Project to reduce sewer backups.						
Completed	Flooding, Severe Weather	2, 9	Village Administration	\$39 million; Low	Loans and Grants	Completed
Action E6.2 —Perform community outreach/ public education through the use of Blackboard Connect (Mass Notification).						
Completed	All	5, 6	Village Administration, Fire, Police and Public Works Departments	\$15,000; Low	General Fund	Completed
Action E6.3 —Assist residents in flood prone areas with financial assistance for retro-fitting homes with approved flood control systems.						
Completed	Flooding, Severe Weather	7, 13	Village Administration and Code Enforcement	\$150,000; Medium	Elmwood Park Water Fund	Completed

Action E6.4 —Update existing outdoor warning sirens.						
Completed	All	5, 6	Village Administration and Fire Department	\$25,000; Low	Grants	Completed
Action E6.5 —Continue to support the countywide actions identified in this plan.						
Ongoing	All	All	Village Administration	Low	General Fund	Short- and Long-term
Action E6.6 —Actively participate in the plan maintenance strategy identified in this plan.						
Completed	All	3, 4, 6	DHSEM, Village Administration	Low	General Fund	Completed
Action E6.7 —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 Administration	Low	General Fund	Long-term
Action E6.8 —Maintain good standing under the National Flood Insurance Program.						
Completed	Flooding	4, 6, 9	Village Administration	Low	General Fund	Completed
Action E6.9 —Where feasible, implement a program to record high water marks following high-water events.						
Ongoing	Flooding, Severe Weather	3, 6, 9	Village Administration	Medium	General Fund; FEMA Grand Funds (Public Assistance)	Long-term
Action E6.10 —Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.						
Completed	All	3, 4, 6, 10, 13	Burke Engineering	Low	General Fund	Completed
Action E6.11 —Consider the development and implementation of a Capital Improvements Program (CIP) to increase the Village’s regulatory, financial and technical capability to implement mitigation actions.						
Ongoing	All	1, 2, 7	Public Works	High	CIP component of General Fund (if implemented)	Long-term

Action E6.12—Purchase property on the SW corner of 73rd Ave and Bloomingdale. It's the only property that is affected by a significant amount of rainfall at one time and is the most cost efficient measure to reduce property loss.

New	Flood	7,9	Village of Elmwood Park	\$600,000	Own Funds	2021
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(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?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)
1	2	High	High	Yes	Yes	Yes	High
2	2	High	Low	Yes	No	Yes	High
3	2	Medium	Low	Yes	No	Yes	High
4	2	High	Low	Yes	Yes	No	High
5	13	Medium	Low	Yes	No	Yes	High
6	3	Medium	Low	Yes	Yes	Yes	High
7	9	Medium	Low	Yes	No	Yes	Medium
8	3	Medium	Low	Yes	No	Yes	High
9	3	Medium	Medium	Yes	Yes	No	Medium
10	5	Medium	Low	Yes	No	Yes	High
11	3	High	High	Yes	No	No	Medium
12	2	Unknown	Unknown	Unknown	Unknown	Unknown	Medium

(a) See Chapter 1 for explanation of priorities.

New Mitigation Actions

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

Action E-6.12

Mitigation Action	Purchase property on the SW corner of 73rd Ave and Bloomingdale. It's the only property that is affected by a significant amount of rainfall at one time and is the most cost efficient measure to reduce property loss.
Year Initiated	2019
Applicable Jurisdiction	
Lead Agency/Organization	Village of Elmwood Park
Supporting Agencies/Organizations	
Applicable Goal	<ul style="list-style-type: none"> Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.
Applicable Objective	<ul style="list-style-type: none"> Retrofit, purchase, or relocate structures in high hazard areas, including those known to be repetitively damaged. Provide or improve flood protection on a watershed basis with flood control structures and drainage maintenance plans.
Potential Funding Source	Own funds
Estimated Cost	\$600,000
Benefits (loss avoided)	Purchase property and alleviate flooding when a significant amount of rain falls, plan to add a flood mitigation project (box culvert)
Projected Completion Date	2021
Priority and Level of Importance (Low, Medium, High)	Medium priority
Benefit Analysis (Low, Medium, High)	Unknown
Cost Analysis (Low, Medium, High)	Unknown
Actual Completion Date	Unknown

Recommended Mitigation Action/Implementation Plan and Project Description

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

Year	Status	Comments
2019	New	
2020		

2021		
2022		
2023		

Mitigated Hazards	
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
X	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 E-6.5

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.5	Continue to support the countywide actions identified in this plan.	
Status Description: Yes		O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.7

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.7	Consider participation in incentive based programs such as Community Rating System, Tree City and Storm Ready.	
Status Description: Yes		O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.9

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.9	Where feasible, implement a program to record high water marks following high water events.	
Status Description: Yes		O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.11

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.11	Consider the development and implementation of a Capital Improvements Program to increase the Village's regulatory, financial, and technical capability to implement mitigation actions.	
Status Description: Yes		O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Completed Mitigation Actions

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

Action E-6.1

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.1	Flood Mitigation Project to reduce sewer backups	
Status Description: Yes	39 million dollar flood mitigation project was completed in 2015	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.2

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.2	Perform community outreach/public education through the use of Blackboard Connect (mass notification system).	
Status Description: Yes	Alerts residents of potential natural hazards such as heavy snow, thunderstorms, flooding, as well as steps to reduce loss of property through pre-event planning.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.3

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.3	Assist residents in flood prone areas with financial assistance for retro-fitting homes with approved home flood control systems.	
Status Description: Yes	Assist with approved flood control systems	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.4

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.4	Update existing outdoor warning sirens.	
Status Description: Yes	Outdoor warning system updated and testing the first Tuesday of every month.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.6

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.6	Actively participate in the plan maintenance strategy identified in this plan.	
Status Description: Yes		C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.8

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.8	Maintain good standing under the National Flood Insurance Program.	
Status Description: Yes	Elmwood Park remains in good standing as of 7/27/18 with the National Flood Insurance Program.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action E-6.10

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# E-6.10	Integrate the hazard mitigation plan into other plans, programs or resources that dictate land use or redevelopment.	
Status Description: Yes	Land beautification program for certain areas prone to flooding. (Decorative flood wall & plants implemented with Flood Mitigation Project)	C
<p style="text-align: center;">Completion status legend:</p> <p style="text-align: center;"> N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken </p>		

Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

Additional Comments

The Village will complete a flood mitigation project this fall. It is anticipated that this should significantly reduce sewer backup issues in the future.

HAZUS-MH Risk Assessment Results

ELMWOOD PARK EXISTING CONDITIONS	
2010 Population	24,883
Total Assessed Value of Structures and Contents	\$4,851,773,445
Area in 100-Year Floodplain	63.25 acres
Area in 500-Year Floodplain	134.23 acres
Number of Critical Facilities	17

HAZARD EXPOSURE IN ELMWOOD PARK						
	Number Exposed		Value Exposed to Hazard		Total	% of Total Assessed Value Exposed
	Population	Buildings	Structure	Contents		
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	185	57	\$20,535,045	\$10,267,522	\$30,802,567	0.63%

500-Year	715	220	\$72,150,841	\$36,625,045	\$108,775,886	2.24%
Tornado						
100-Year	—	—	\$599,944,881	\$435,297,514	\$1,035,242,395	21.34%
500-Year	—	—	\$1,331,630,323	\$976,405,756	\$2,308,036,079	47.57%

ESTIMATED PROPERTY DAMAGE VALUES IN ELMWOOD PARK				
	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%
Earthquake				
1909 Historical Event	\$23,687,030	\$5,321,437	\$29,008,467	0.60%
Flood				
10-Year	\$53,839	\$25,435	\$79,274	0.00%
100-Year	\$4,642,514	\$2,047,102	\$6,689,615	0.14%
500-Year	\$12,243,508	\$05,693,756	\$17,937,264	0.37%

Tornado				
100-Year	\$59,994,488	\$43,529,751	\$103,524,240	2.13%
500-Year	\$194,418,027	\$142,555,240	\$336,973,267	6.95%

Hazard Mapping





