Maywood

Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
Craig Bronaugh, Fire Chief 700 St. Charles Road Maywood, IL 60153 Telephone: 708-257-5794 Email Address: cbronaugh@maywoodfire-il.gov	Kendall Silas, Homeland Security Chief 200 south 5th ave Maywood, IL 60153 Telephone: 708-829-1111 Email Address: ksilas@maywood-il.gov

Jurisdiction Profile

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

Date of Incorporation: 1881

Current Population: The 2020 U.S. Census population was 23,512. The 2022 U.S. Census estimate indicated the population was 22,932.

Population Growth: The overall population has decreased by 1.87% between 2018 and 2022.

Location and Description: The Village of Maywood is located eleven miles west of the Chicago Loop. A planned community from the outset, Maywood lies on the west bank of the Des Plaines River, stretching from Roosevelt Road on the south to just beyond Augusta Street on the North. Maywood was originally part of a larger area known as Noyesville, named after one of Proviso Township's early settlers, who established the area's first post office in the mid-1830s.

Brief History: In the year 1869, a group of Vermont businessmen formed the Maywood Company and purchased the Village's original plat- a narrow, one-and-three-quarters-mile strip along the Des Plaines River. Company president William T. Nichols named the village after his daughter May, and immediately began subdividing the land and creating improvements necessary to "build up a neat, desirable suburb." In 1870, wide streets were laid out, 20,000 trees were planted, and building commenced on the north side of the Chicago and Northwestern railroad tracks (now known as the Union Pacific railroad tracks), which bisected the community. In the same year, an advertisement boasted easy access to the city with regular train service, as well as a school, churches, post office grocery store, hotel, and a beautiful park, as among Maywood's many amenities.

Climate: Maywood's weather is typical of the Great Lakes Region. The village experiences all four seasons. Although mostly typical of the seasons, there has been a tendency to be a bit of unusual weather patterns over the last five years. Even so, the weather has proven to be extreme during the

summer and winter seasons. The precipitation has been down for some time, although the area has experienced more snow than last year (even at this point).

Governing Body Format: The Village of Maywood is governed by a seven-member council. The Village consists of eight departments: Finance, Community Development, Public Works, Police, Fire, Water, and the Village Manager's Office. The Village has thirteen Committees, Commissions, and Task Forces, which report to the City Council. The Fire Department Chief and Captain will assume the responsibility for the adoption and implementation of this plan.

Development Trends: Development has been low, consisting primarily of residential development. Crime and the economy have been a factor in the low activity of development in the community. The Village established Tax Increment Finance Districts in an effort to spur development. Although crime has come down significantly over the past decade, effects of the economy, many residents not having much money, and a lack of small business owners, development has been at a standstill. In December 2017, Maywood Board of Trustees, William Paul, the president of Xsite Real Estate, presented a plan to the board that would entail redeveloping three parcels of land on First and Lake. Development prospects range from retailers and restaurants to apartments. In 2023, it underwent a "Reimagine Maywood" initiative to revitalize the Village with an emphasis on the downtown area.

Changes in Community Priorities: There have been no significant changes in priority regarding the hazards that could potentially impact the community or changes in priority regarding resilience.

Capability Assessment

The assessment of the jurisdiction's legal and regulatory capabilities is presented in the *Legal and Regulatory Capability Table* below. The assessment of the jurisdiction's fiscal capabilities is presented in the *Fiscal Capability Table* below. The assessment of the jurisdiction's administrative and technical capabilities is presented in *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	In accordance with Public Act 096-0704, Illinois has adopted the IBC as its state Building Code 2003 IBC
Zonings	Yes	No	No	Yes	Maywood Zoning

					Ordinance CO-2010-20 Amended: 11/16/2010
Subdivisions	Yes	No	No	No	§ 151.03 SUBDIVISION PLATS
Stormwater Management	Yes	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	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	No	No	No	No	
Site Plan Review	No	No	No	No	
Public Health and Safety	Yes	No	Yes	Yes	Cook County Board of Health.
Environmental Protection	No	No	No	No	
Planning Documents					
General or Comprehensive Plan	Yes	No	No	No	Maywood Comp. Plan, December 16 2014
Is the plan equipped to provide integration to this mitigation plan?					Yes- Land Use, Natural Resources, Redevelopment
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	MWRD	No	
Capital Improvement Plan	No	No	No	No	
What types of capital facilities does the plan address?					N/A
How often is the plan revised/updated?					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	Cook County EMRS
Threat and Hazard Identification and Risk Assessment	Yes	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	Yes	No	Yes	Yes	Cook County EMRS
Post-Disaster Recovery Plan	No	No	No	No	
Continuity of Operations Plan	Yes	No	Yes	No	Cook County EMRS
Public Health Plans	No	No	Yes	No	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	No
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	Yes
State Sponsored Grant Programs	No

Development Impact Fees for Homebuyers or Developers	No
Other	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	No	
Engineers or professionals trained in building or infrastructure construction practices	Yes	Contracted
Planners or engineers with an understanding of natural hazards	Yes	Contracted
Staff with training in benefit/cost analysis	Yes	Finance Department
Surveyors	Yes	Contracted
Personnel skilled or trained in GIS applications	No	
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Village Department
Grant writers	Yes	Fire Department

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE	
What department is responsible for floodplain management in your jurisdiction?	Code Department
Who is your jurisdiction's floodplain administrator? (department/position)	Community Development
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	8-19-2008/10-6-2009
When was the most recent Community Assistance Visit or Community Assistance Contact?	Have not received Community Assistance Visit
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, and yes, we are interested in joining.

NFIP Participation Activities

Maintaining compliance under the NFIP is an important component of flood risk reduction. All planning partners that participate in the NFIP have identified actions to maintain their compliance and good standing. Cook County entered the NFIP on April 15, 1981. Structures permitted or built in the County before then are called "pre-FIRM" structures and structures built afterward are called "post-FIRM." The insurance rate is different for the two types of structures. The effective date for the

current countywide FIRM is August 19, 2008. This map is a DFIRM (digital flood insurance rate map). The communities in Cook County that participate in the NFIP are shown in ***Table: NFIP Participating Communities in Cook County*** in **Volume I** of the Cook County MJ-HMP.

The NFIP makes federally-backed flood insurance available to homeowners, renters, and business owners in participating communities. The communities in Cook County that participate in the NFIP and their "Policies in Force," "Total Coverage," and "Total Written Premiums" are shown in ***Table: Cook County Flood Insurance Policies*** in **Volume I** of the Cook County MJ-HMP.

- Our community teaches property owners or other stakeholders about the importance of flood insurance through public outreach events, workshops, and/or seminars.
- Our community enforces local floodplain regulations and monitors compliance.
- Our floodplain development regulations meet or exceed Federal Emergency Management Agency (FEMA) or State minimum requirements.

Substantial Improvement Rule and the Substantial Damage Rule

The IDNR/OWR has developed a model ordinance for floodplain management, which has been adopted by most communities in Illinois. The ordinance includes the minimum requirements an NFIP participating jurisdiction must adopt and enforce, as well as additional higher regulatory requirements. The optional, higher regulatory standards include a minimum one foot of freeboard above the base flood elevation and cumulative tracking of damage repairs and improvements to establish substantial damage and substantial improvement compliance. Some jurisdictions have chosen to exceed the requirements of the model ordinance and have adopted more restrictive ordinances. This is most common in the communities in northeastern Illinois.

Existing Municipal Code:

https://codelibrary.amlegal.com/codes/maywood/latest/maywood_il/0-0-0-7299

151.02 Definitions

SUBSTANTIAL DAMAGE. Damage of any origin sustained by a structure whereby the cumulative percentage of damage subsequent to the adoption of this chapter equals or exceeds 50% of the market value of the structure before the damage occurred, regardless of the actual repair work performed. Volunteer labor and materials must be included in this determination. The term includes repetitive loss buildings. See ***REPETITIVE LOSS***.

SUBSTANTIAL IMPROVEMENT.

(1) Any reconstruction, rehabilitation, addition, or improvement of a structure, taking place subsequent to the adoption of this chapter in which the cumulative percentage of improvements equals or exceeds 50% of the market value of the structure before the start of construction of the improvement.

(2) For the purposes of this definition ***SUBSTANTIAL IMPROVEMENT*** is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the building.

(3) The term does not, however, include either:

(a) Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions; or

(b) Any alteration of a historic structure listed on the National Register of Historic Places or the Illinois Register of Historic Places, provided that the alteration will not preclude the structure's continued designation as a historic structure.

152.04 Duties of Enforcement Official

The Community Development Director shall be responsible for the general administration and enforcement of this chapter which shall include the following:

(A) *Determining the floodplain designation*. Check all new development sites to determine whether they are in a Special Flood Hazard Area (SFHA). If they are in an SFHA, determine whether they are in a floodway, flood fringe, or floodplain for which a detailed study has not been conducted and which drains more than 1 square mile. Check whether the development is potentially within an extended SFHA (with a drainage area of less than 1 square mile), indicating that the development would have adverse impacts regarding storage, conveyance, or inundation which would be the basis for the applicant being required to delineate the floodplain and floodway and be subject to the remaining sections of this chapter.

(B) *Professional engineer review*. If the development site is within a floodway or in a floodplain for which a detailed study has not been conducted and which drains more than 1 square mile, the permit shall be referred to a registered professional engineer under the employ or contract of the Village for review to ensure that the development meets § 152.07 or 152.08. In the case of an appropriate use, the P.E. shall state in writing that the development meets the requirements of § 152.07.

(G) *Damage determinations*. Make damage determinations of all damaged buildings in the SFHA after a flood to determine substantially damaged structures which must comply with § 152.09(C)(3).

152.09 Permitting Requirements Applicable to all Floodplain Areas; Protection of Building

In addition to the requirements found in §§ 152.06, 152.07, and 152.08 for development in flood fringes, designated floodways, and SFHA or floodplains where no floodways have been identified (Zones A, AO, AH, AE, A1-A30, A99, VO, V1-30, VE, V, M, E, or D), the following requirements shall be met:

(C) *Protecting buildings*. All buildings located within a 100-year floodplain also known as an SFHA, and all buildings located outside the 100-year floodplain but within the 500-year floodplain, shall be protected from flood damage below the flood protection elevation. This building protection criteria applies to the following situations:

(1) Construction or placement of a new building valued at more than $1,000 or 70 square feet;

(2) Substantial improvement to an existing building as defined in § 152.02, including an increase to the first floor area by more than 20%. This alteration shall be figured cumulatively beginning with any alteration that has taken place subsequent to April 1, 1990;
(3) Substantial damage to an existing building as defined in § 152.02. This alteration shall be figured cumulatively beginning with any alteration that has taken place subsequent to April 1, 1990;
(4) Repetitive loss to an existing building as defined in § 152.02;
(5) Installing a manufactured home on a new site or a new manufactured home on an existing site. This building protection requirement does not apply to returning a mobile home to the same site it lawfully occupied before it was removed to avoid flood damage; and
(6) Installing a travel trailer on a site for more than 180 days per year. This building protection requirement may be met by 1 of the following methods.

(E) A residential or non-residential building may be elevated in accordance with the following:
(1) The building or improvements shall be elevated on crawl space, stilts, piles, walls, or other foundations that are permanently open to flood waters and not subject to damage by hydrostatic pressures of the base flood or 100-year frequency flood. Designs must either be certified by a registered professional engineer or architect or the permanent openings, 1 on each wall, shall be no more than 1 foot above existing grade, and consist of a minimum of 2 openings. The openings must have a total net area of not less than 1 square inch for every 1 square foot of enclosed area subject to flooding below the base flood elevation.
(2) The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures to minimize exposure to known hydrodynamic forces such as currents, waves, ice, and floating debris.
(3) All areas below the flood protection elevation shall be constructed of materials resistant to flood damage. The lowest floor (including the basement) and all electrical, heating, ventilating, plumbing, and air conditioning equipment and utility meters shall be located at or above the flood protection elevation. Water and sewer pipes, electrical and telephone lines, submersible pumps, and other waterproofed service facilities may be located below the flood protection elevation provided they are waterproofed.
(4) The areas below the flood protection elevation may only be used for the parking of vehicles, building access or storage in an area other than a basement and not later modified or occupied as habitable space.
(5) Manufactured homes, and travel trailers to be installed on a site for more than 180 days, shall be elevated to or above the flood protection elevation; and shall be anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the Rules and Regulations for the Illinois Mobile Home Tie-Down Act issued pursuant to 77 Ill. Adm. Code Part 870. In addition, all manufactured homes shall meet the following elevation requirements:
(a) In the case of manufactured homes placed or substantially improved outside of a manufactured home park or subdivision, in a new manufactured home park or subdivision, in an expansion to an existing manufactured home park or subdivision, or in an existing manufactured home park or subdivision on which a manufactured home has incurred substantial damage from a flood, the top of the lowest floor shall be elevated to or above the flood protection elevation.

(b) In the case of manufactured homes placed or substantially improved in an existing manufactured home park or subdivision, the manufactured home shall be elevated so that either the top of the lowest floor is above the base flood elevation, or the chassis is at least 36 inches in height above grade and supported by reinforced piers or other foundations of equivalent strength, whichever is less.

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	**Classification**	**Date Classified**
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	9/9	10-2012
Public Protection/ISO	Yes	4	08/2012
StormReady	Yes (County)	Gold (Countywide)	2014
Tree City USA	No	N/A	N/A

Opportunities to Expand and Improve Capabilities

Opportunities to expand and improve capabilities include;

- Enhancing GIS capabilities to better understand the risks and impacts of hazards on the community's key assets.
- The Village will also explore opportunities to participate in the Community Rating System (CRS) program.

Plan Integration

The capability assessment describes opportunities to "link" or integrate the mitigation plan into other planning mechanisms. The process and mechanism to identify opportunities to integrate the Cook County MJ-HMP into other planning mechanisms will occur during the Annual Update Process and be reflected in the Jurisdictional Annual Report each year. Specific plan integration opportunities will include:

- The hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the Comprehensive Plan.
- The hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the jurisdiction’s land use plans, zoning, and subdivision codes.

Emergency Plan Integration:

Cook County EMRS is supporting communities to develop and update their respective Emergency Operations Plans, Continuity of Operations Plans/Continuity of Government Plans, and Recovery Plans in 2024. This is an ongoing countywide initiative and is being implemented in all municipalities.

Emergency Operations Plan (EOP)

An EOP template was created for all municipalities. The 2019 Cook County MJ-HMP and the hazards in the mitigation plan have been integrated into the Situation and Assumptions section of the EOP. Within that section, the natural hazards based on the 2019 MJ-HMP were added in the Initial Analysis and Assessment and Identification of Hazards section of the EOP. The hazards in the 2019 plan and the 2024 MJ-HMP did not change apart from adding wildfires for the Forest Preserve and

unincorporated areas of the County. Future updates of the EOP will take into consideration any additional new natural hazards that are added to subsequent updates to the MJ-HMP.

Continuity of Operations Plan (COOP)

The Continuity of Operations Plan (COOP) for the municipality includes a Situation section that is based on the 2019 Cook County MJ-HMP jurisdictional annex, and specifically the hazards identified in the annex. The COOP-specific risk assessment is hazard-specific and based on the likelihood of occurrence and severity of impact.

Recovery Plan

The goals of the Recovery Plan were developed to align with the 2019 Cook County MJ-HMP, and specifically prioritize the responsibility of officials under this plan to save lives, protect property, relieve human suffering, sustain survivors, repair essential facilities, restore services, and protect the environment. The plan acknowledges that hazard mitigation is an important priority and consideration during the rebuilding process.

Jurisdiction-Specific Natural Hazard Event History

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

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

- Number of FEMA-Identified Repetitive Loss Properties: 3
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

Federal Disasters Declared

Disaster Declaration Number	Date Declared	Event
DR-227	4/25/1967	Tornado
DR-351	9/4/1972	Flood
DR-373	4/26/1973	Flood
DR-509	6/18/1976	Severe Storm(s)
DR-643	6/30/1981	Severe Storm(s)
DR-776	10/7/1986	Flood
DR-798	8/21/1987	Flood
DR-997	7/9/1993	Flood
DR-1129	7/25/1996	Severe Storm(s)
DR-1188	9/17/1997	Severe Storm(s)
DR-1729	9/25/2007	Severe Storm(s)
DR-1800	10/3/2008	Severe Storm(s)
DR-1935	8/19/2010	Severe Storm(s)
DR-1960	3/17/2011	Snow
EM-3068	1/16/1979	Snow

EM-3134	1/8/1999	Snow
EM-3161	1/17/2001	Snow
EM-3230	9/7/2005	Hurricane – Katrina Evacuation
EM-3435	3/13/2020	Biological
DR-4116	5/10/2013	Flood
DR-4489	3/26/2020	Biological
DR-4728	8/15/2023	Severe Storm(s)
DR-4749	11/20/2023	Flood

State Disaster Declarations

Date Declared	Event
7/26/2010	Severe Storms, High Winds, Torrential Rain
1/31/2011	Winter Weather
4/25/2011 5/25/2011	High Wind, Tornadoes, Torrential Rain
4/18/2013 4/20/2013 4/21/2013 4/25/2013 4/30/2013	Severe Storms, Heavy Rainfall, Flooding, Straight-line Winds
1/6/2014	Heavy Snowfall, Frigid Temperatures
7/12/2017 7/14/2017	Thunderstorms, Heavy Rainfall, Flooding
1/29/2019	Winter Storm
2/6/2020	Severe Storms
3/12/2020 – present (reissued monthly)	COVID-19
2/16/2021	Winter Storms
2/1/2022	Winter Storms
8/1/2022 (reissued monthly through 10/28/2022)	Monkeypox

TABLE: NATURAL HAZARD EVENTS			
Type of Event	**FEMA Disaster Number (if applicable)**	**Date**	**Preliminary Damage Assessment/ Event Narrative**
Flash Flood	-	8/17/2015	-
Lightning	-	8/17/2015	$2,000 in property damage.
Flash Flood	-	6/15/2015	-
Flash Flood	-	8/22/2014	-
Flash Flood	-	8/4/2014	$150,000 in property damage.
Flash Flood	-	6/24/2014	-
Severe Storms	DR-4116	2013	-
Severe Winter Storms	DR-1960	2011	-

Severe Storms/Flooding	DR-1935	2010	-
Severe Storms/Flooding	DR-1800	2008	-
Severe Storms/Flooding	DR-1729	2007	-
Severe Winter Storm	EM-3161	2000	-
Winter Snow Storm	EM-3134	1999	-
Flooding	DR-1188	1997	-
Flooding	DR-1129	1996	-
Severe Storms/Flooding	DR-997	1993	-
Severe Storms/Flooding	DR-798	1987	-
Severe Storms/Flooding	DR-776	1986	-

Jurisdiction-Specific Hazards: Vulnerabilities and Impacts

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2024 Cook County Multi-Jurisdictional Hazard Mitigation Plan Update. This section only addresses the hazards and their associated impacts that are **relevant** and **unique** to the municipality.

Flood: Previously, the Village has experienced flooding in the following areas: Hugh Muir Lane (1st-5th), 17th Avenue Railroad, 9th and Warren (entire intersection), 2nd Avenue Pine, and 13th Ave (N. Maywood Dr. to Harrison). In addition, many impacted areas are dependent on MWRD closing the deep tunnel. In 2014, Flash/Urban flooding occurred leading Interstate 290 to be closed between 17th Avenue and 25th Avenue.

High Winds: High winds have caused large outages throughout the Village. Moreover, in the case that high winds and rainstorms occur simultaneously, properties become flooded.

Tornado: Similar to the impacts of high winds, tornadoes affect power, preventing many flood control measures.

Severe Weather: On June 14, 2022, severe weather hit the south area of the village, causing power outages and damage to houses and trees due to high winds.

Indicator	Number	Percent
Families in poverty	486	9.6%
People with disabilities	3,043	13%
People over 65 years	3,257	13.9%
People under 5 years	1,130	4.8%
People of color	22,127	94.8%
Black	14,781	63.3%
Native American	79	0.3%
Hispanic	7,222	30.9%
Difficulty with English	1,747	7.9%
Households with no car	811	10.6%
Mobile homes	11	0.1%

Data are from the U.S. Census Bureau, American Community Survey. See methods for more information.

The community evaluated whether vulnerability, and subsequently the potential impacts, in hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics were taken into consideration when assessing development trends.

Jurisdiction-Specific Climate Change Vulnerability and Impacts

The table below outlines if climate change, as assessed by the local planning team, has increased or decreased the municipality's vulnerability/exposure, and thereby the potential impacts, to each natural hazard over the past five (5) years (**Current Vulnerability**), and the effect of climate change in the future probability of occurrence and impacts (**Future Vulnerability**) from each natural hazard.

Hazard	Vulnerability
Current Vulnerability	
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Remained the Same
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Wings)	Remained the Same
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Remained the Same
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	No Change is Anticipated
Drought	No Change is Anticipated
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Wings)	No Change is Anticipated
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	No Change is Anticipated
Tornado	No Change is Anticipated
Wildfire (Wildfire Smoke)	No Change is Anticipated

Jurisdiction-Specific Changes (or Expected Changes) in Development Trends in Hazard-Prone Areas

The table below outlines if development, as assessed by the local planning team, over the past five (5) years (**Current Vulnerability**) has increased or decreased the jurisdiction's vulnerability/exposure, and thereby the potential impacts, to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts (**Future Vulnerability**) from these natural hazards.

Hazard	Vulnerability
Current Vulnerability	
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Remained the Same
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Wings)	Remained the Same
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Remained the Same
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	No Change is Anticipated
Drought	No Change is Anticipated
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Wings)	No Change is Anticipated
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	No Change is Anticipated
Tornado	No Change is Anticipated
Wildfire (Wildfire Smoke)	No Change is Anticipated

Our community anticipates that the following future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan:

- The police department located at 125 South 5th Avenue is exposed to excessive flooding during heavy periods of rain.

Hazard Risk Ranking

The *Hazard Risk Ranking Table* below presents the ranking of the hazards of concern. Hazard area extent and location maps are included at the end of this chapter. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes.

TABLE: HAZARD RISK RANKING	
Rank	**Hazard Type**
1	Severe Weather
2	Flooding
3	Severe Winter Weather
4	Tornado
5	Earthquake
6	Drought
7	Dam Failure

Note: The ranking of hazards was subjectively changed based on past experience.

New Mitigation Actions

The following are new mitigation actions created during the 2024 update.

Action M-3.12

Mitigation Action #12: I-290 Corridor Storm Sewer Separation Project					
Lead Agency/Department Organization: Public Works / Engineering Dept.	**Supporting Agencies/ Organizations:**	**Estimated Cost:** High	**Potential Funding Source:** MWRD Grant BRIC General Fund	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Flooding
Year Initiated		2024			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 3			
Applicable Objective		2, 3 ,12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		High			
Action/Implementation Plan and Project Description		I-290 Corridor Storm Sewer Separation Improvements $30,000,000 Area bounded by 9th Ave., 21st Ave., Harrison St., Van Buren St. Flooding Mitigation - Installing separate storm sewers in a combined sewer area to alleviate urban flooding issues and basement backups			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed;		N			

R = Want Removed from Annex; **X** = No Action Taken/Delayed	

Action M-3.13

Mitigation Action #13: Village-Wide Check Valve Program					
Lead Agency/Department Organization: Public Works / Community Development	**Supporting Agencies/ Organizations:**	**Estimated Cost:** High	**Potential Funding Source:** MWRD Grant BRIC General Fund	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Flooding
Year Initiated		2024			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 3			
Applicable Objective		2, 3 ,12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		High			
Action/Implementation Plan and Project Description		Village-Wide Check Valve Program $16,000,000 Village-wide Flooding Mitigation - Installing check valves on all sanitary services throughout the Village in order to alleviate basement backup issues due to undersized sewers.			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		N			

Action M-3.14

Mitigation Action #14: Village-Wide Water Main Replacement					
Lead Agency/Department Organization: Public Works / Engineering Dept.	**Supporting Agencies/ Organizations:**	**Estimated Cost:** High	**Potential Funding Source:** MWRD Grant BRIC HMGP TIF Funds	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Flooding
Year Initiated		2024			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 3			
Applicable Objective		2, 3 ,12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		High			
Action/Implementation Plan and Project Description		Village-Wide Water Main Replacement $218,000,000 Village-Wide Climate Change Protection - Replacing all aged water mains throughout the Village, which are susceptible to the affects of climate change. Threats include frequent water main breaks due to excessive freeze/thaw which result in inadequate fire protection, lack of drinking water throughout the Village, and disruptive emergency boil orders. The Water Mains were installed prior to 1920 and are susceptible to a many number of threats.			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		N			

Action M-3.15

Mitigation Action #15: Emergency Water System Connections					
Lead Agency/Department Organization: Public Works / Community Development	**Supporting Agencies/ Organizations:**	**Estimated Cost:** High	**Potential Funding Source:** BRIC HMGP	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Flooding
Year Initiated		2024			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 3			
Applicable Objective		2, 3 ,12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		High			
Action/Implementation Plan and Project Description		Emergency Water System Connections $22,000,000 North Maywood Climate Change Protection - in the event of a Water System Emergency, the north side of the Village needs additional emergency water connections from a diverse group of independent suppliers to mitigate the risks of a complete water system emergency and public health crisis			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		N			

Action M-3.16

Mitigation Action #16: Stormwater Outfalls to Des Plaines River					
Lead Agency/Department Organization: Public Works / Community Development	**Supporting Agencies/ Organizations:**	**Estimated Cost:** High	**Potential Funding Source:** MWRD Grant General Fund BRIC	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Flooding
Year Initiated		2024			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 3			
Applicable Objective		2, 3 ,12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		High			
Action/Implementation Plan and Project Description		Stormwater Outfalls to DesPlaines River $25,000,000 Rice St., Huron St., Lake St., Oak St., and Washington Blvd. at DesPlaines River Flooding Mitigation - Installing true "Storm Sewer Outfalls" to the DesPlaines River and officially separating the storm relief sewer from discharge to MWRD Interceptor and associated limitations. This project will provide flooding relief when the MWRD experiences complete system inundation (Deep Tunnel Closure).			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority **Completion status legend:** **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		N			

Ongoing Mitigation Actions

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

Action M-3.1

<table>
<tr><th colspan="6">Mitigation Action #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.</th></tr>
<tr><td>Lead Agency/Department Organization:
Public Works</td><td>Supporting Agencies/ Organizations:</td><td>Estimated Cost:
$500,000 or more</td><td>Potential Funding Source:
BRIC, FMA, HMGP</td><td>Estimated Projected Completion Date:
Long-term (depending on funding)</td><td>Hazard(s) Mitigated:
Flooding</td></tr>
<tr><td colspan="2">Year Initiated</td><td colspan="4">2014</td></tr>
<tr><td colspan="2">Applicable Jurisdiction</td><td colspan="4">Village of Maywood</td></tr>
<tr><td colspan="2">Applicable Goal</td><td colspan="4">1, 2, 3</td></tr>
<tr><td colspan="2">Applicable Objective</td><td colspan="4">7, 13</td></tr>
<tr><td colspan="2">Cost Analysis (Low, Medium, High)</td><td colspan="4">High</td></tr>
<tr><td colspan="2">Priority and Level of Importance (Low, Medium, High)</td><td colspan="4">Medium</td></tr>
<tr><td colspan="2">Benefits of the Mitigation Project</td><td colspan="4">High</td></tr>
<tr><td colspan="2">Action/Implementation Plan and Project Description</td><td colspan="4"></td></tr>
<tr><td colspan="2">Actual Completion Date or Ongoing Indefinite</td><td colspan="4"></td></tr>
<tr><td colspan="2">Project Status & Changes in Priority
Completion status legend:
N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed</td><td colspan="4">I</td></tr>
</table>

Action M-3.2

<table>
<tr><th colspan="6">Mitigation Action #2: Continue to support the countywide actions identified in this plan.</th></tr>
<tr><td>Lead Agency/Department Organization:
Homeland Security Chief</td><td>Supporting Agencies/ Organizations:</td><td>Estimated Cost:
Staff Time</td><td>Potential Funding Source:
General Fund</td><td>Estimated Projected Completion Date:
Short-term</td><td>Hazard(s) Mitigated:
Drought, Earthquake, Flooding, Severe Weather, Severe Winter Weather, Tornado</td></tr>
<tr><td colspan="2">Year Initiated</td><td colspan="4">2014</td></tr>
<tr><td colspan="2">Applicable Jurisdiction</td><td colspan="4">Village of Maywood</td></tr>
<tr><td colspan="2">Applicable Goal</td><td colspan="4">2, 3, 4</td></tr>
<tr><td colspan="2">Applicable Objective</td><td colspan="4">1, 2, 3, 5, 8, 9, 12, 13</td></tr>
<tr><td colspan="2">Cost Analysis (Low, Medium, High)</td><td colspan="4">High</td></tr>
<tr><td colspan="2">Priority and Level of Importance (Low, Medium, High)</td><td colspan="4">High</td></tr>
<tr><td colspan="2">Benefits of the Mitigation Project</td><td colspan="4">Medium</td></tr>
<tr><td colspan="2">Action/Implementation Plan and Project Description</td><td colspan="4"></td></tr>
<tr><td colspan="2">Actual Completion Date or Ongoing Indefinite</td><td colspan="4"></td></tr>
<tr><td colspan="2">Project Status & Changes in Priority
Completion status legend:
N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed</td><td colspan="4">O</td></tr>
</table>

Action M-3.3

Mitigation Action #3: Actively participate in the plan maintenance strategy identified in this plan.					
Lead Agency/Department Organization: Homeland Security Chief	**Supporting Agencies/ Organizations:** Cook County EMRS	**Estimated Cost:** Staff Time	**Potential Funding Source:** General Fund	**Estimated Projected Completion Date:** Short-term	**Hazard(s) Mitigated:** Drought, Earthquake, Flooding, Severe Weather, Severe Winter Weather, Tornado
Year Initiated		2014			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		2, 3, 4			
Applicable Objective		3, 4, 6			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		Medium			
Action/Implementation Plan and Project Description					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority **Completion status legend:** **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		O			

Action M-3.4

<table>
<tr><th colspan="6">Mitigation Action #4: Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.</th></tr>
<tr><td>Lead Agency/Department Organization:
Homeland Security Chief</td><td>Supporting Agencies/ Organizations:</td><td>Estimated Cost:
Staff Time</td><td>Potential Funding Source:
General Fund</td><td>Estimated Projected Completion Date:
Long-term</td><td>Hazard(s) Mitigated:
Drought, Earthquake, Flooding, Severe Weather, Severe Winter Weather, Tornado</td></tr>
<tr><td colspan="2">Year Initiated</td><td colspan="4">2014</td></tr>
<tr><td colspan="2">Applicable Jurisdiction</td><td colspan="4">Village of Maywood</td></tr>
<tr><td colspan="2">Applicable Goal</td><td colspan="4">1, 2, 3</td></tr>
<tr><td colspan="2">Applicable Objective</td><td colspan="4">3, 4, 5, 6, 7, 9, 10, 11, 13</td></tr>
<tr><td colspan="2">Cost Analysis (Low, Medium, High)</td><td colspan="4">Low</td></tr>
<tr><td colspan="2">Priority and Level of Importance (Low, Medium, High)</td><td colspan="4">Medium</td></tr>
<tr><td colspan="2">Benefits of the Mitigation Project</td><td colspan="4">Medium</td></tr>
<tr><td colspan="2">Action/Implementation Plan and Project Description</td><td colspan="4"></td></tr>
<tr><td colspan="2">Actual Completion Date or Ongoing Indefinite</td><td colspan="4"></td></tr>
<tr><td colspan="2">Project Status & Changes in Priority
Completion status legend:
N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed</td><td colspan="4">O</td></tr>
</table>

Action M-3.5

<table>
<tr><td colspan="6">Mitigation Action #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.</td></tr>
<tr><td>Lead Agency/Department Organization:
Community Development</td><td>Supporting Agencies/ Organizations:</td><td>Estimated Cost:
Staff Time</td><td>Potential Funding Source:
General Fund</td><td>Estimated Projected Completion Date:
Short-term</td><td>Hazard(s) Mitigated:
Flooding</td></tr>
<tr><td colspan="2">Year Initiated</td><td colspan="4">2014</td></tr>
<tr><td colspan="2">Applicable Jurisdiction</td><td colspan="4">Village of Maywood</td></tr>
<tr><td colspan="2">Applicable Goal</td><td colspan="4">1, 3</td></tr>
<tr><td colspan="2">Applicable Objective</td><td colspan="4">4, 6, 9</td></tr>
<tr><td colspan="2">Cost Analysis (Low, Medium, High)</td><td colspan="4">Low</td></tr>
<tr><td colspan="2">Priority and Level of Importance (Low, Medium, High)</td><td colspan="4">High</td></tr>
<tr><td colspan="2">Benefits of the Mitigation Project</td><td colspan="4">Medium</td></tr>
<tr><td colspan="2">Action/Implementation Plan and Project Description:</td><td colspan="4"></td></tr>
<tr><td colspan="2">Actual Completion Date or Ongoing Indefinite</td><td colspan="4"></td></tr>
<tr><td colspan="2">Project Status & Changes in Priority
Completion status legend:
N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed</td><td colspan="4">O</td></tr>
</table>

Action M-3.7

Mitigation Action #7: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
Lead Agency/Department Organization: Community Development	**Supporting Agencies/ Organizations:**	**Estimated Cost:** Staff Time	**Potential Funding Source:** General Fund	**Estimated Projected Completion Date:** Short-term	**Hazard(s) Mitigated:** Drought, Earthquake, Flooding, Severe Weather, Severe Winter Weather, Tornado
Year Initiated		2014			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		5			
Applicable Objective		3, 4, 6, 10, 13			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		Medium			
Action/Implementation Plan and Project Description					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority **Completion status legend:** **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		O			

Action M-3.8

Mitigation Action #8: 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.					
Lead Agency/Department Organization: Public Works	**Supporting Agencies/ Organizations:**	**Estimated Cost:** Varies by project	**Potential Funding Source:** CIP component of general fund (if implemented)	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Drought, Earthquake, Flooding, Severe Weather, Severe Winter Weather, Tornado
Year Initiated		2014			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		5			
Applicable Objective		1, 2, 7			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		Medium			
Benefits of the Mitigation Project		High			
Action/Implementation Plan and Project Description					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority **Completion status legend:** **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		O			

Action M-3.9

Mitigation Action #9: Installation of green allies to help with flooding. Install new garage doors to help with emergency service participation during power outages; and integrating installing sewer for Village Hall					
Lead Agency/Department Organization: Public Works	**Supporting Agencies/ Organizations:**	**Estimated Cost:** High, 24 Million	**Potential Funding Source:** Madison TiF, general fund, CDBG funds, FMA, HMPG	**Estimated Projected Completion Date:** 2019	**Hazard(s) Mitigated:** Flooding, Widespread Power Outage, Secondary Impacts from Mass Influx of Evacuees
Year Initiated		2019			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 2, 3			
Applicable Objective		2, 3, 12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		High (Better drainage; quicker emergency response)			
Action/Implementation Plan and Project Description		Village-wide Installing 64 "Green Infrastructure" type alleys and providing mass stormwater infiltration within the alleys, reducing the burden on the Storm/Combined sewer systems			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority **Completion status legend:** **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		O			

Action M-3.10

Mitigation Action #10: Install First Avenue from Roosevelt Road to Cermak Road Flood Control					
Lead Agency/Department Organization: MWRD	**Supporting Agencies/ Organizations:**	**Estimated Cost:** $652,000	**Potential Funding Source:** MWRD	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Flooding
Year Initiated		2019			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 2, 3			
Applicable Objective		2, 3 ,12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project		High			
Action/Implementation Plan and Project Description		ID: IDOT-15 Contract: 14-111-5C Watershed: Lower Des Plaines Location: Maywood, IL Flood relief along 1st Avenue from Roosevelt Road to Cermak Road			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority **Completion status legend:** **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		O			

Action M-3.11

Mitigation Action #11: Launch Green Infrastructure Project					
Lead Agency/Department Organization: MWRD	**Supporting Agencies/ Organizations:**	**Estimated Cost:** $1,000,000	**Potential Funding Source:** MWRD	**Estimated Projected Completion Date:** Long-term	**Hazard(s) Mitigated:** Flooding
Year Initiated		2019			
Applicable Jurisdiction		Village of Maywood			
Applicable Goal		1, 3			
Applicable Objective		2, 3 ,12, 13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		Low			
Benefits of the Mitigation Project		Medium			
Action/Implementation Plan and Project Description					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority **Completion status legend:** **N** = New; **I** = In Progress Toward Completion; **O** = Ongoing Indefinitely; **C** = Project Completed; **R** = Want Removed from Annex; **X** = No Action Taken/Delayed		O			

Completed Actions

Completed Mitigation Actions - An archive of all identified and completed projects, including completed actions since 2014.

Completed Action Items
Where feasible, implement a program to record high water marks following high-water events.

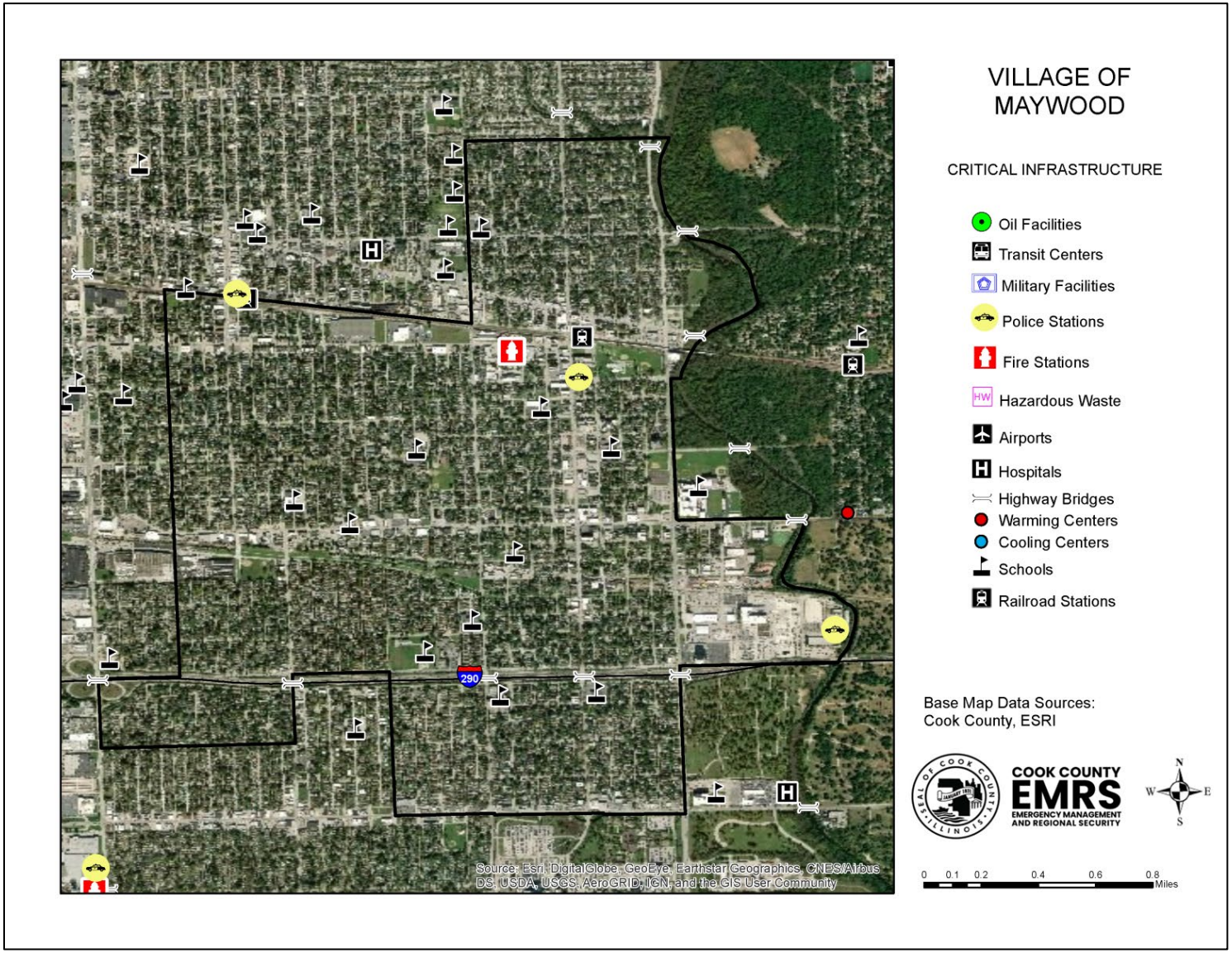
Future Needs to Better Understand Risk/Vulnerability

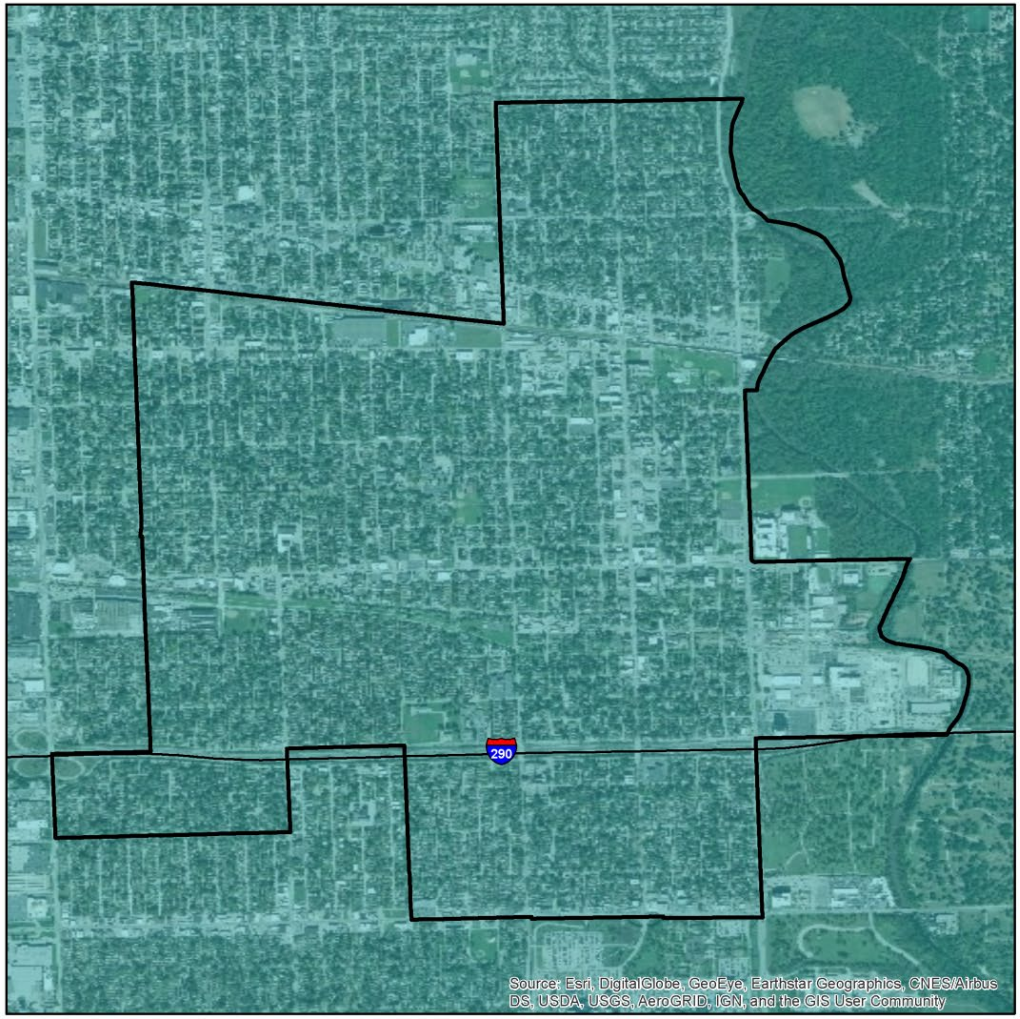
Training to understand the mitigation grant application process better.

Additional Comments

No additional comments at this time.

Hazard Mapping





VILLAGE OF MAYWOOD

PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

Mercalli Scale, Potential Shaking

II-III Weak

Data provided by the USGS Earthquake Hazards Program and Cook County.

Probabilistic seismic-hazard maps were prepared for the conterminous United States for 2014 portraying peak horizontal acceleration and horizontal spectral response acceleration for 0.2- and 1.0-second periods with probabilities of exceedance of 10 percent in 50 years and 2 percent in 50 years. All of the maps were prepared by combining the hazard derived from spatially smoothed historical seismicity with the hazard from fault-specific sources. The acceleration values contoured are the random horizontal component. The reference site condition is firm rock, defined as having an average shear-wave velocity of 760 m/s in the top 30 meters corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction program) site classes B and C.

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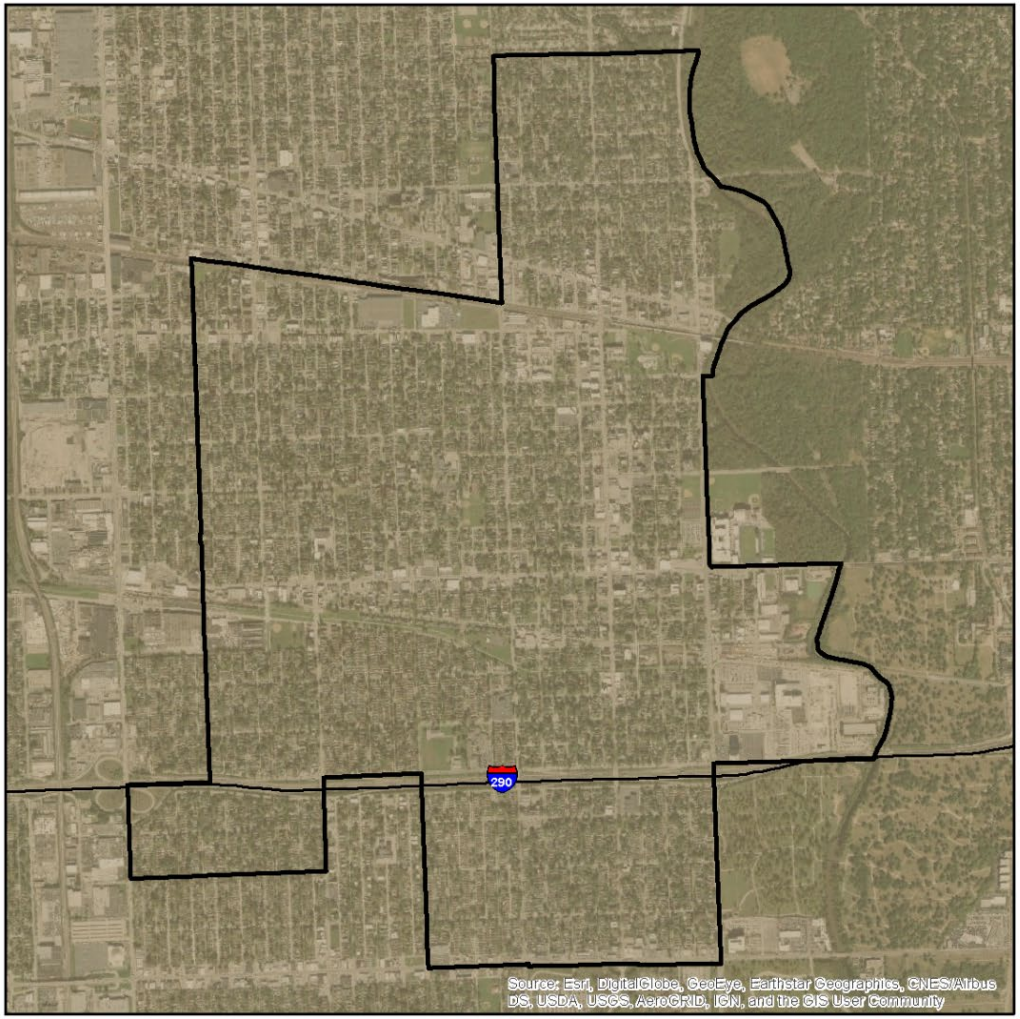
COOK COUNTY EMRS
EMERGENCY MANAGEMENT AND REGIONAL SECURITY

N W E S

0 0.1 0.2 0.4 0.6 0.8 Miles



VILLAGE OF MAYWOOD

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 County.

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series I-2789 Map of Surficial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplification.

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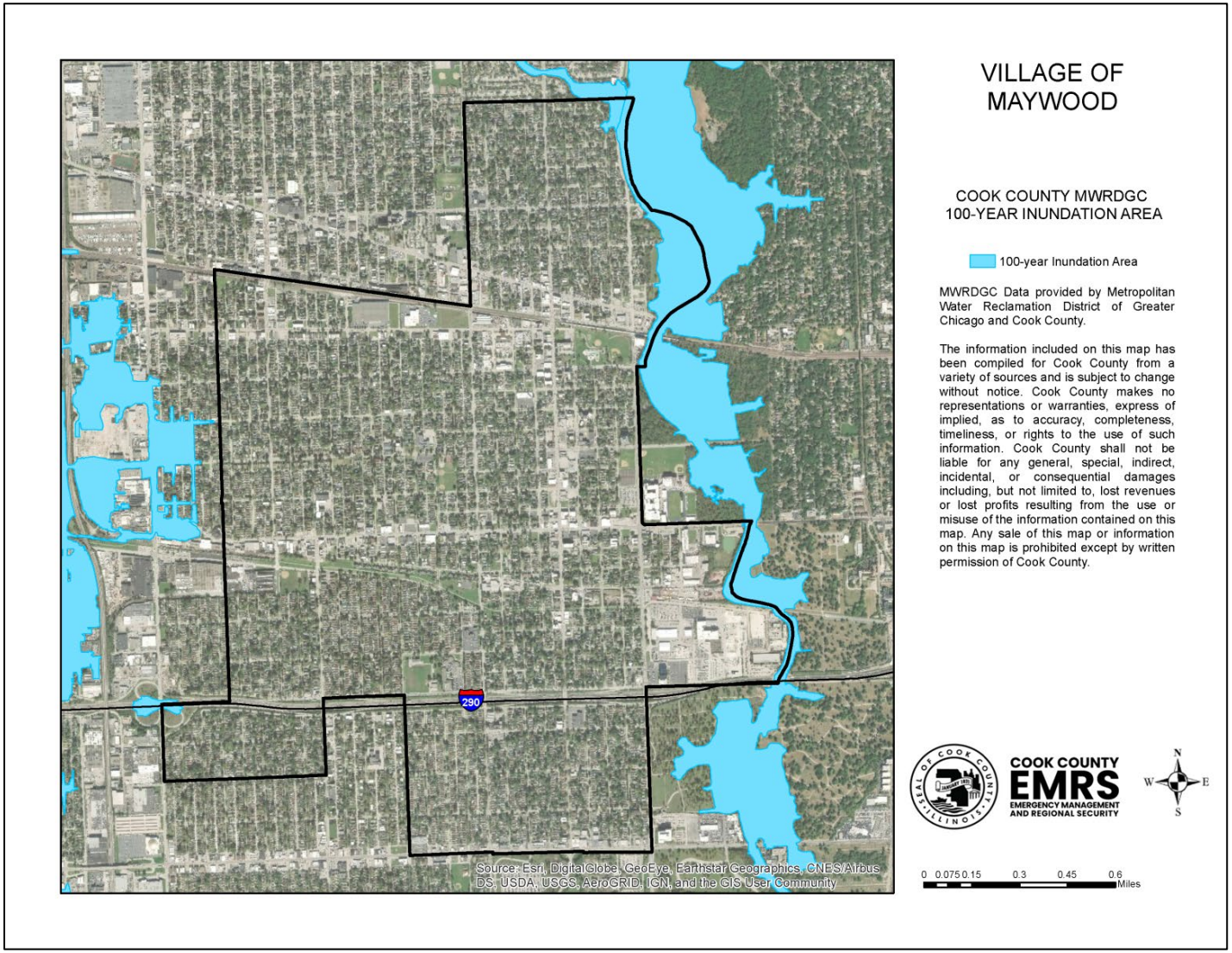
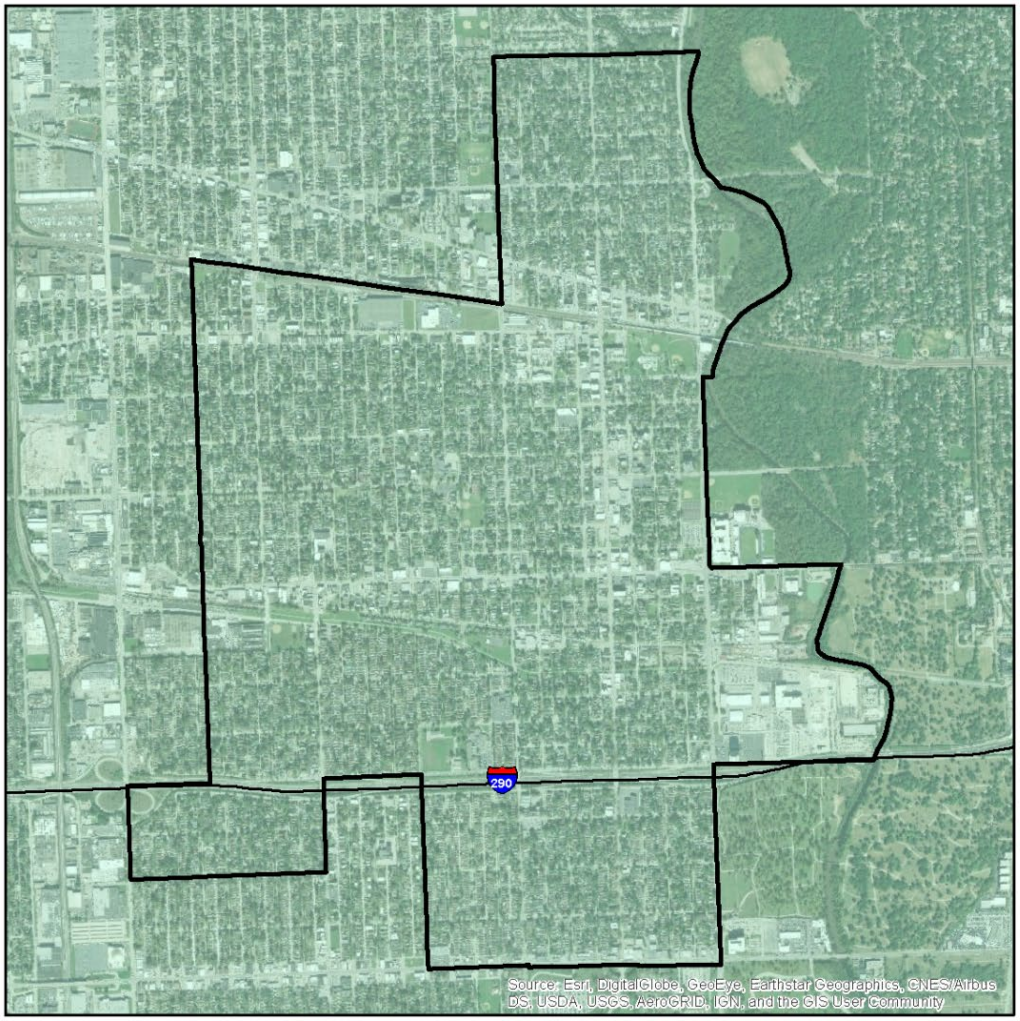
N W E S

0 0.075 0.15 0.3 0.45 0.6 Miles

DISCLAIMER: The Cook County MWRDGC 100-year Inundation 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.





VILLAGE OF MAYWOOD

LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY

- high
- low
- very low

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

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series I-2789 Map of Surficial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplification.

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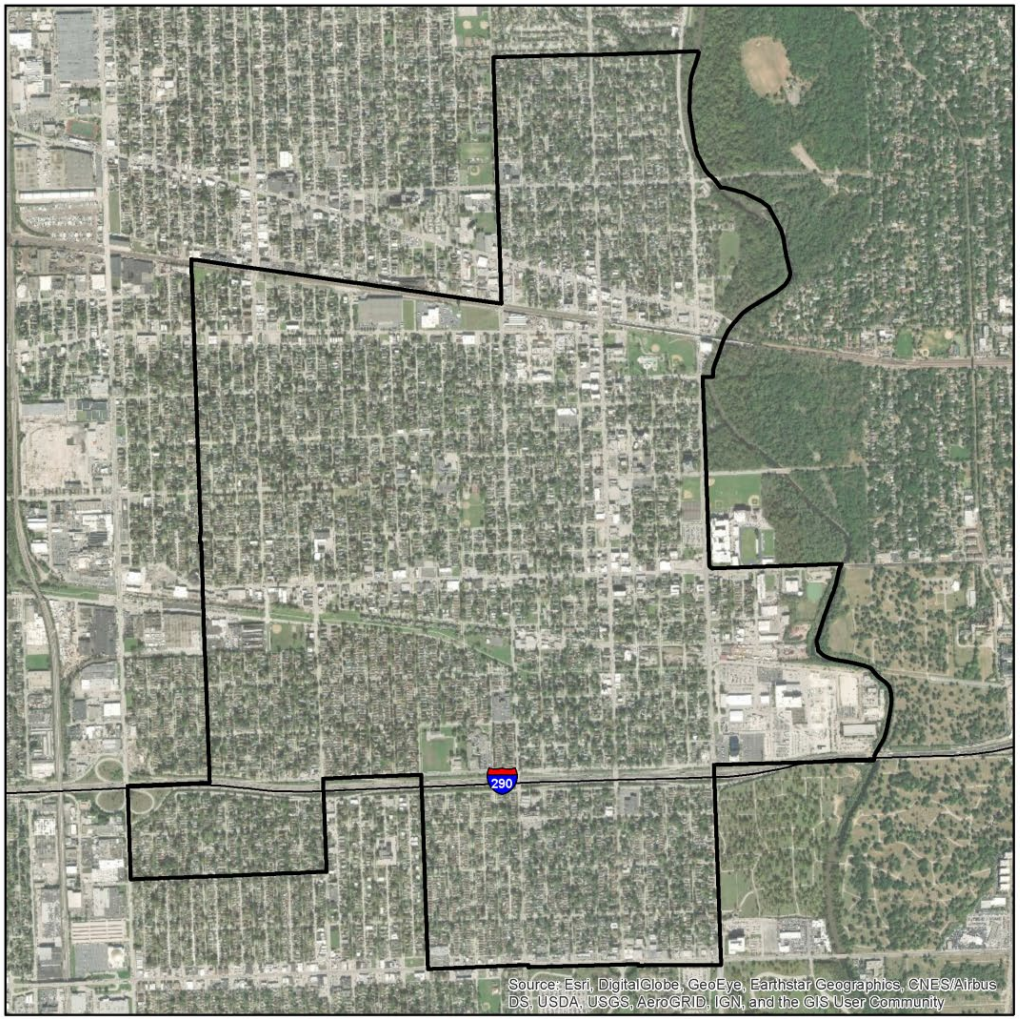
COOK COUNTY EMRS
EMERGENCY MANAGEMENT AND REGIONAL SECURITY

N
W E
S

0 0.075 0.15 0.3 0.45 0.6
Miles



VILLAGE OF MAYWOOD

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.

COOK COUNTY EMRS
EMERGENCY MANAGEMENT AND REGIONAL SECURITY

N W E S

0 0.075 0.15 0.3 0.45 0.6 Miles