

Flossmoor

Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
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Jurisdiction Profile

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

Date of Incorporation: 1924

Current Population: The 2020 U.S. Census population was 9,698. The 2022 U.S. Census estimate indicated the population was 9,339.

Population Growth: The overall population has increased by 1.10 percent between 2018 and 2022.

Location and Description: The Village of Flossmoor is about 20 miles south of Chicago in Cook County, and borders the towns of Homewood to the north, Olympia Fields to the south, Hazel Crest to the west, and Chicago Heights to the east. According to the U.S. Census Bureau, the Village of Flossmoor has a total land area of 3.66 square miles.

Brief History: Primarily a bedroom community, Flossmoor has roots well into the nineteenth century; it was first recognized as an affluent community in the 1920s when it became known as a cultural and recreational mecca of elite country clubs and stately golf courses. It was incorporated as a village in 1924. In the years since, Flossmoor was not only seen as the “status” suburb of south/southwest suburban Chicago but also as one of “the fashionable places to live in” nationally. Flossmoor’s allure attracted a diverse group of residents over time.

Climate: The climate of Flossmoor 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, reaching its lowest points in January and February, and peaks in May and June. Winter proves quite variable. Seasonal snowfall in the Village 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 area’s wettest and most unpredictable season. Winter-like conditions can persist well into April and even occasionally into May. Thunderstorms are

especially prevalent in the springtime as the area'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 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 can experience 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 can produce flooding. The average first accumulating snow occurs around Nov 19.

Governing Body Format: The Village of Flossmoor has an elected Mayor and six elected Village Trustees, as well as a professional Village Manager. The Village operates with six (6) departments including the Village Manager's Office, Inspectional Services (Building Department), Finance Department, Fire Department, Police Department, Planning and Zoning Department, and the Public Works Department. This body of Government will assume the responsibility for the adoption and implementation of this plan.

Development Trends: Flossmoor is predominately built for residential units and is anticipating commercial development in its Tax Increment Financing (TIF) district that is located at Vollmer Road and Crawford Avenue in the southwest corner of town. The build-out of the TIF is not anticipated for several years. There is some new development in the downtown area of Flossmoor with a purchase of some land in 2018. A 37,500 square-foot plot of land in downtown Flossmoor that had been vacant for more than a decade is now slated for development, with village officials considering businesses, high-end apartments, restaurants, and community space as potential options.

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	2018 IBC was adopted on 02/18/2019.

Zonings	Yes	No	No	Yes	Adopted 8/17/1981, last amended 9/16/2019
Subdivisions	Yes	No	No	No	Subdivision Ord., 04/03/1961, Amended 1988.
Stormwater Management	Yes	No	Yes	Yes	The state regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Stormwater Management Ordinance, #1635, 08/05/2008. MWRD Watershed Management Ordinance is effective 05/16/2019.
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	Stormwater Management Ordinance, #1635, 08/05/2008. Flossmoor Zoning Code adopted 8/17/1981, last amended 9/16/2019
Public Health and Safety	No	No	Yes	Yes	Cook County Board of Health.
Environmental Protection	No	No	No	No	

Planning Documents					
General or Comprehensive Plan	Yes	No	No	Yes	Adopted 2/3/1986, last update 2/1/1993. Strategic Plan adopted on 6/20/2022
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					No
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	MWRD	No	Regional stormwater impacts are managed by MWRD. The Village lies within the Little Calumet River watershed planning area of MWRD's comprehensive Stormwater Master Planning Program.
Capital Improvement Plan	Yes	No	No	No	
<i>What types of capital facilities does the plan address?</i>					The Village maintains a Finance and Facilities Plan to address infrastructure needs and a Capital Equipment Fund which covers major equipment purchases and facilities maintenance items.
<i>How often is the plan revised/updated?</i>					These are both reviewed annually during the Village's

					budget process.
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	No	Yes	Yes	Ordinance # 1006 adopted 10/8/1991.
Shoreline Management Plan	No	No	No	No	
Response/Recovery Planning					
Comprehensive Emergency Management Plan	No	No	Yes	Yes	Cook County EMRS
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	No	No	Yes	Yes	Cook County EMRS
Post-Disaster Recovery Plan	No	No	No	No	
Continuity of Operations Plan	No	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	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes, but must be within tax cap limitations.
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes, if approved by voter referendum.
Incur Debt through Special Tax Bonds	Yes. Assumes Special Service Area Bonds, can levy tax to repay but can be stopped with petition.
Incur Debt through Private Activity Bonds	Yes, under limited circumstances.
Withhold Public Expenditures in Hazard-Prone Areas	No
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
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	Yes	Flossmoor Public Works, Director
Engineers or professionals trained in building or infrastructure construction practices	Yes	Flossmoor Public Works, Director
Planners or engineers with an understanding of natural hazards	Yes	Flossmoor Public Works, Director
Staff with training in benefit/cost analysis	Yes	Village of Flossmoor, All Department Directors
Surveyors	No	
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium, Municipal GIS Partners, Village Staff
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Flossmoor Fire Department, Fire Chief
Grant writers	No	

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?	Yes, Public Works Director
What is the date of adoption of your flood damage prevention ordinance?	Floodplain Ordinance, #1634, 08/05/2008
When was the most recent Community Assistance Visit or Community Assistance Contact?	05/11/2023
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	No
Does your jurisdiction participate in the Community Rating System (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program?	Yes, Flossmoor is a Class 7 CRS community, and we are working to improve classification.

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.

The following are NFIP-related activities completed by our community:

- Our staff provides the following services: permit reviews, GIS, inspections, and engineering capability.
- Our community's Floodplain Administrator is a Certified Floodplain Manager (CFM).
- 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.

Flossmoor also participates in the Community Rating System as a Class 7 community.

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:

Link to our Floodplain Ordinance -

<https://www.flossmoor.org/DocumentCenter/View/253/Floodplain-Ordinance-PDF?bidId=>

Section 300.0 Definitions

300.65 Substantial Damage: Damage of any origin sustained by a building whereby the cumulative percentage of damage, after the adoption of this ordinance, equals or exceeds 50 percent of the market value of the structure before the damage occurred **regardless of actual repair work performed**. Volunteer labor and materials must be included in this determination. This term includes Repetitive Loss Buildings See 300.56 "Repetitive Loss".

300.66 Substantial Improvement: Any reconstruction, rehabilitation, addition, or improvement of a structure taking place, after the adoption of this ordinance, in which the cumulative percentage of improvements equals or exceeds 50 percent of the market value of the structure before the improvement or repair is started.

1. 300.66.1 "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. This term includes structures which have incurred repetitive loss or substantial damage, regardless of the actual work done.
2. 300.66.2 The term does not, however, include either:
 - a. 300.66.2.1 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. 300.66.2.2 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.

Section 1000.0 Permitting Requirements Applicable to all Floodplain Areas

In addition to the requirements found in Sections 700.0, 800.0, and 900.0 for development in flood fringes, designated floodways, and SFHA or floodplains where no floodways have been identified, the following requirements shall be met:

1. **1003.0 Protecting Buildings**
2. **1003.1** All buildings located within a 100-year floodplain, also known as an SFHA, shall be protected from flood damage below the flood protection elevation. Building protection criteria apply to the following situations:
 - a. 1003.1.1 Construction or placement of a new building, or alteration or addition to an existing building valued at more than one thousand dollars (\$1,000) or seventy (70) square feet.
 - b. 1003.1.2 Substantial improvements or structural alterations made to an existing building that increase the floor area by more than twenty percent (20%) or equal or exceed the market value by fifty percent (50%). Alterations shall be figured cumulatively, after the adoption of this Ordinance. If substantially improved, the existing structure and the addition must meet the flood protection standards of this section.
 - c. 1003.1.3 Repairs made to a substantially damaged building. These repairs shall be figured cumulatively, after the adoption of this Ordinance. If substantially damaged the entire structure must meet the flood protection standards of this section.
 - d. 1003.1.4 Installing a manufactured home on a new site or a new manufactured home on an existing site (the building protection requirements do not apply to returning a manufactured home to the same site it lawfully occupied before it was removed to avoid flood damage).
 - e. 1003.1.5 Installing a travel trailer or recreational vehicle on a site for more than 180 days per year; and

- f. 1003.1.6 Repetitive loss to an existing building as defined in Section 300.56 This building protection requirement may be met by one of the following methods.
- 3. 1003.3 A residential or non-residential building may be elevated per the following:
 - a. 1003.3.1 The building or improvements shall be elevated on a crawlspace, 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 be certified by either a licensed professional engineer or architect, or the permanent openings, one on each wall, shall be no more than one foot above the existing grade, and consist of a minimum of two openings. The openings must have a total net area of not less than one square inch for every one square foot of enclosed area subject to flooding below the Base Flood Elevation; and
 - b. 1003.3.2 The foundation and supporting members shall be anchored and aligned concerning flood flows and adjoining structures to minimize exposure to known hydrodynamic forces such as current, waves, ice, and floating debris; and
 - c. 1003.3.3 All areas below the flood protection elevation shall be constructed of materials resistant to flood damage; and
 - d. 1003.3.3.1 The lowest floor (including basement) and all electrical, heating, ventilating, plumbing, and air conditioning equipment and utility meters shall be located at or above the flood protection elevation; and
 - e. 1003.3.3.2 Water and sewer pipes, electrical and telephone lines, submersible pumps and other water-proofed service facilities may be located below the flood protection elevation provided they are waterproofed; and
- 4. 1003.3.4 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; and
- 5. 1003.3.5 In lieu of the above criteria, the design methods to comply with these requirements may be certified by a licensed professional engineer or architect.
- 6. 1003.3.6 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 per the Rules and Regulations for the Illinois Mobile Home Tie-Down Act issued according to 77 Ill. Adm. Code Part 870. In addition, all manufactured homes shall meet the following elevation requirements:
 - a. 1003.3.6.1 In the case of manufactured homes placed or substantially improved (1) outside of a manufactured home park or subdivision, (2) in a new manufactured home park or subdivision, (3) in an expansion to an existing manufactured home park or subdivision, or (4) 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. 1003.3.6.2 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	Yes	7	05/01/2013
Building Code Effectiveness Grading Schedule	Yes	3	06/01/2016
Public Protection/ISO	Yes	3	04/01/2015
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	Yes	N/A	2018

Opportunities to Expand and Improve Capabilities

Opportunities to expand and improve capabilities include developing a strategy to identify and set aside municipal funds to assist with the 25% cost match for FEMA HMA mitigation grants. Due to the technical expertise needed to develop grant applications and benefit cost analyses for FEMA HMA grants, the municipality needs qualified grant writers to assist in developing and managing these grants.

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 goals and actions of the Hazard Mitigation Plan will be considered in the next capital improvement planning process.
- 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 supports 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: 10 (10 Single Family)
- 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	High Wind, Tornadoes, Torrential Rain
5/25/2011	
4/18/2013	Severe Storms, Heavy Rainfall, Flooding, Straight-line Winds
4/20/2013	
4/21/2013	
4/25/2013	
4/30/2013	
1/6/2014	Heavy Snowfall, Frigid Temperatures
7/12/2017	Thunderstorms, Heavy Rainfall, Flooding
7/14/2017	
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
Hail	-	2/28/2017	-
Severe Winter Storm	FEMA-1960-DR-IL	2/1/2011	\$14,914.69
Wind Storm Damage	-	6/18/2010	\$15,740.56
Flood Event	FEMA-1800-DR-IL	9/13/2008	\$9,219.05
Wind/Rain Storm	FEMA-1729-DR-IL	8/19/2007	\$22,677.32

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.

Dam/Levee Failure: The Village does not consider Dam/Levee Failure to be a hazard that would likely occur.

Flood: Within the Village, the Flossmoor Rd. viaduct at CN/Metra RR, Brookwood Bridge and Butterfield Cr. Culvert, Berry Lane between Sunset and Bob-o-Link Rd., Latimer Lane between

Vardon Lane and Collett Lane, Heather Rod between Governors Highway and Sterling Avenue, Dartmouth Bike Bridge and Creek Stabilization, are all flood-prone areas.

Severe Weather: The Village is vulnerable to potential power outages at critical facilities in the event of high winds, including the following facilities: Vollmer Res. (water), Meinheit BS (water), Kedzie BS (water), Lift stations (Butterfield, Dartmouth, Sylvan, Heather, Commons). Back-up power is needed to mitigate the impact of this natural hazard. Flossmoor has 5 wastewater lift stations and 2 potable water pumping stations that do not have emergency backup generators currently and are prone to power outages during high wind storm events.

Severe Winter Weather: Similar to the outcomes of high winds, the Village's critical facilities are subject to power outages as a result of ice storms. Back-up power is needed to prevent this impact. Flossmoor has 5 wastewater lift stations and 2 potable water pumping stations that do not have emergency backup generators currently and are prone to power outages during ice or heavy snowstorm events.

Tornado: Similar to the impacts of high winds and ice storms, the Village's critical facilities are subject to power outages in the event of a tornado. Back-up power is needed to maintain the continuity of the Village's critical facilities during this hazard. Flossmoor has 5 wastewater lift stations and 2 potable water pumping stations that do not have emergency backup generators currently and are prone to power outages during high wind storm events.

Earthquake: Although earthquakes or their effects are not commonly felt in Flossmoor, earthquakes have happened on several occasions in Illinois over the last few decades. Flossmoor continues to prepare and mitigate against this hazard.

Indicator	Number	Percent
Families in poverty	177	3.3%
People with disabilities	1,975	9.1%
People over 65 years	3,961	18.1%
People under 5 years	1,906	8.7%
People of color	13,897	63.6%
Black	11,679	53.5%
Native American	0	0%
Hispanic	1,463	6.7%
Difficulty with English	356	1.8%
Households with no car	284	3.6%
Mobile homes	0	0%

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)	Increased
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increased
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)	Increase
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increase
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 Winds)	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 Winds)	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 does not anticipate future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan. Any new assets (e.g., new construction in hazard-prone areas) will be constructed to adhere to the latest building codes and standards, and mitigation to protect them from identified and anticipated hazards, especially those that are expected to increase due to climate change.

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	Severe Winter Weather
3	Flood
4	Earthquake
5	Tornado
6	Drought
7	Dam Failure

New Mitigation Actions

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

Action F-1.23

Mitigation Action #23: 1344 Brassie Avenue Rear Yard Drainage Improvement Project (FY25)					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations: Village of Flossmoor	Estimated Cost: Low	Potential Funding Source: General Fund Storm Sewer Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)
Year Initiated		2024			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		3,9,12			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High			
Action/Implementation Plan and Project Description:		1344 Brassie Avenue Rear Yard Drainage Improvement Project (FY25) - This project includes a storm sewer improvement to the rear yard area of 1344 Brassie Avenue and surrounding properties. This area experiences rear yard flooding that impacts surrounding residential structures. The project was included in the MWRD Butterfield Creek Stormwater Study.			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority		N			

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

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 F-1.1

Mitigation Action #1: Replace the Brookwood Road bridge and culvert.					
Lead Agency/Department Organization: Public Works	Supporting Agencies/Organizations:	Estimated Cost: \$1.3 million	Potential Funding Source: IDPT, DCEO, Village of Flossmoor General Fund, BRIC, HMGP	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flooding, Severe Weather
Year Initiated		2014			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,2,3			
Applicable Objective		3,4,6,9,11,12			
Cost Analysis (Low, Medium, High)		Medium			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Medium			
Action/Implementation Plan and Project Description:		Phase 3 Construction is currently in progress			

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	I

Action F-1.2

Mitigation Action #2: Flossmoor Road viaduct sewer improvement.					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$7.8 million	Potential Funding Source: Go Bond, HMGP, BRIC	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flooding, Severe Weather
Year Initiated	2014				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	1,2,5				
Applicable Objective	3,4,6,8,9,12,13				
Cost Analysis (Low, Medium, High)	High				
Priority and Level of Importance (Low, Medium, High)	Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	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;	I				

R = Want Removed from Annex; X = No Action Taken/Delayed	
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Action F-1.3

Mitigation Action #3: Update Emergency Operations Plan.					
Lead Agency/Department Organization: Fire Department	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,5			
Applicable Objective		1,2,4,5,8,12			
Cost Analysis (Low, Medium, High)		Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		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		I			

Action F-1.5

Mitigation Action #5: Butterfield Road flood control project/creek widening.					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: HMGP	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding, Severe Weather
Year Initiated		2014			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,2,3			
Applicable Objective		3,4,6,7,8,9,11,12,13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		Medium			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		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		X			

Action F-1.6

Mitigation Action #6: Dartmouth bike bridge/creek bank stabilization.					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$690,800	Potential Funding Source:	Estimated Projected	Hazard(s) Mitigated:

			HMGP IEPA Section 319 Cook County Invest-in- Cook	Completion Date: Short-term	Flooding, Severe Weather
Year Initiated		2014			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,2,3			
Applicable Objective		3,6,7,9,12,13			
Cost Analysis (Low, Medium, High)		Medium			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Medium			
Action/Implementation Plan and Project Description:		A portion of the creek bank was stabilized in coordination with MWRD, waiting on grant funding for bridge replacement and additional bank stabilization work.			
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 F-1.8

Mitigation Action #8: Early warning storm siren.					
Lead Agency/Department Organization: Fire Department	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source:	Estimated Projected Completion Date:	Hazard(s) Mitigated: All

			HMGP, BRIC	Long-term	
Year Initiated		2014			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,2,3,6			
Applicable Objective		5,6,8			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		Medium			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		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 F-1.10

Mitigation Action #10: Continue to support the countywide actions identified in this plan.					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and ongoing	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,2,5			

Applicable Objective	All
Cost Analysis (Low, Medium, High)	Low
Priority and Level of Importance (Low, Medium, High)	High
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	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 F-1.11

Mitigation Action #11: Actively participate in the plan maintenance strategy identified in this plan.					
Lead Agency/Department Organization: EMRS, Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and Ongoing	Hazard(s) Mitigated: All
Year Initiated	2014				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	1,2,5				
Applicable Objective	3,4,6				
Cost Analysis (Low, Medium, High)	Low				
Priority and Level of Importance (Low, Medium, High)	Medium				

Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	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 F-1.12

Mitigation Action #12: Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and Ongoing	Hazard(s) Mitigated: All
Year Initiated	2014				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	1,2,3,6				
Applicable Objective	3,4,5,6,7,9,10,11,13				
Cost Analysis (Low, Medium, High)	Low				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				

Action/Implementation Plan and Project Description:	This will be an ongoing process. Flossmoor is participating in the CRS as a Class 7 community and obtained Tree City USA status in 2019.
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 F-1.13

Mitigation Action #13: 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.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and Ongoing	Hazard(s) Mitigated: Flooding
Year Initiated	2014				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	2,5				
Applicable Objective	4,6,9				
Cost Analysis (Low, Medium, High)	Medium				
Priority and Level of Importance (Low, Medium, High)	Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	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 F - 1.14

Mitigation Action #14: Where feasible, implement a program to record high water marks following high-water events.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund; FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding, Severe Weather
Year Initiated	2014				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	1,2,3,5				
Applicable Objective	3,6,9				
Cost Analysis (Low, Medium, High)	Low				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium				
Action/Implementation Plan and Project Description:					
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority	X				

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	
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Action F - 1.15

Mitigation Action #15: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and Ongoing	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		1,2,5			
Applicable Objective		3,4,6,10,13			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		Medium			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		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 =		O			

Want Removed from Annex; X = No Action Taken/Delayed	
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Action F - 1.17

Mitigation Action #17: 8 Back-Up Generators at Critical Facilities					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$430,000	Potential Funding Source: Flossmoor General Fund, HMGP, BRIC	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Earthquake, Flood, Extreme Heat, Lightning, Hail, High Wind, Snow, Blizzard, Extreme Cold, Ice Storms, Tornado
Year Initiated		2019			
Applicable Jurisdiction		Village of Flossmoor			
Applicable Goal		2,3			
Applicable Objective		1,2			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High			
Action/Implementation Plan and Project Description:		Install permanent back-up generator at Butterfield Lift Station at estimated cost of \$250,000 in FY25. Purchase towable back-up generator for remaining lift stations and pump stations at cost of \$180,000 in FY25.			
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	I Generators completed in 2023 at Village Hall and DPWSC
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Action F1.20

Mitigation Action #20: Flood prone Properties Acquisition - 1648 Western Ave					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$400,000	Potential Funding Source: FEMA, MWRD, General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flooding
Year Initiated	2021				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	1,2,5				
Applicable Objective					
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).				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Remove structure from regulatory floodway, reduce risk of life safety due to flood hazard High—Project will provide an immediate reduction of risk exposure for life and property.				
Action/Implementation Plan and Project Description:	Acquire property at 1648 Western Ave and demolition structures and restore site to open green space in regulatory floodway. The property would be deed-restricted to prohibit any future development of the site and would allow only allowable uses in the floodway.				

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	I

Action F1.21

Mitigation Action #21: Latimer Lane Drainage Improvement					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$1,706,400	Potential Funding Source: HMGP, BRIC, MWRD	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2023				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	2				
Applicable Objective					
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).				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	This project will help reduce flooding of several residential structures that suffer flood damage during flooding events. Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.				
Action/Implementation Plan and Project Description:	This project includes storm sewer conveyance and underground stormwater storage improvements on Latimer Lane.				
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
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Action F1.22

Mitigation Action #22: Heather Road Drainage Improvement					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$2,000,000	Potential Funding Source: HMGP, BRIC, MWRD	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2023				
Applicable Jurisdiction	Village of Flossmoor				
Applicable Goal	2				
Applicable Objective					
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).				
Priority and Level of Importance (Low, Medium, High)	High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	This project will reduce flooding on Heather Road that affects residential structures. Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.				
Action/Implementation Plan and Project Description:	This project includes storm sewer conveyance and storm water storage improvements to reduce flooding on Heather Road, between Park Drive and Dundee Avenue.				
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
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Completed Actions

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

Completed Action Items
Cherry Creek East Branch Flood Control Project
Hagen Ln. Rear Yards Drainage Improvement
Flood Mitigation Project

Future Needs to Better Understand Risk/Vulnerability

Our community can benefit from continued training opportunities on available mitigation grant opportunities to help support our local mitigation projects.

Additional Comments

The Village of Flossmoor is seeking to replace the Brookwood Road bridge and Butterfield Road culvert, located in an area that is prone to flooding so we can improve the structural integrity of the bridge and culvert. Both structures are experiencing significant wear and deterioration which is further amplified by the occurrence of flooding events along Butterfield Creek.

For the Flossmoor Road viaduct sewer improvement project, we are seeking to improve the storm sewers under the viaduct on Flossmoor Road that are prone to flooding. The flooding under the viaduct has caused the road to be shut down, forcing emergency services to seek alternative routes to the east side of town which forces the emergency responders to go a mile out of the way to bypass the flooded

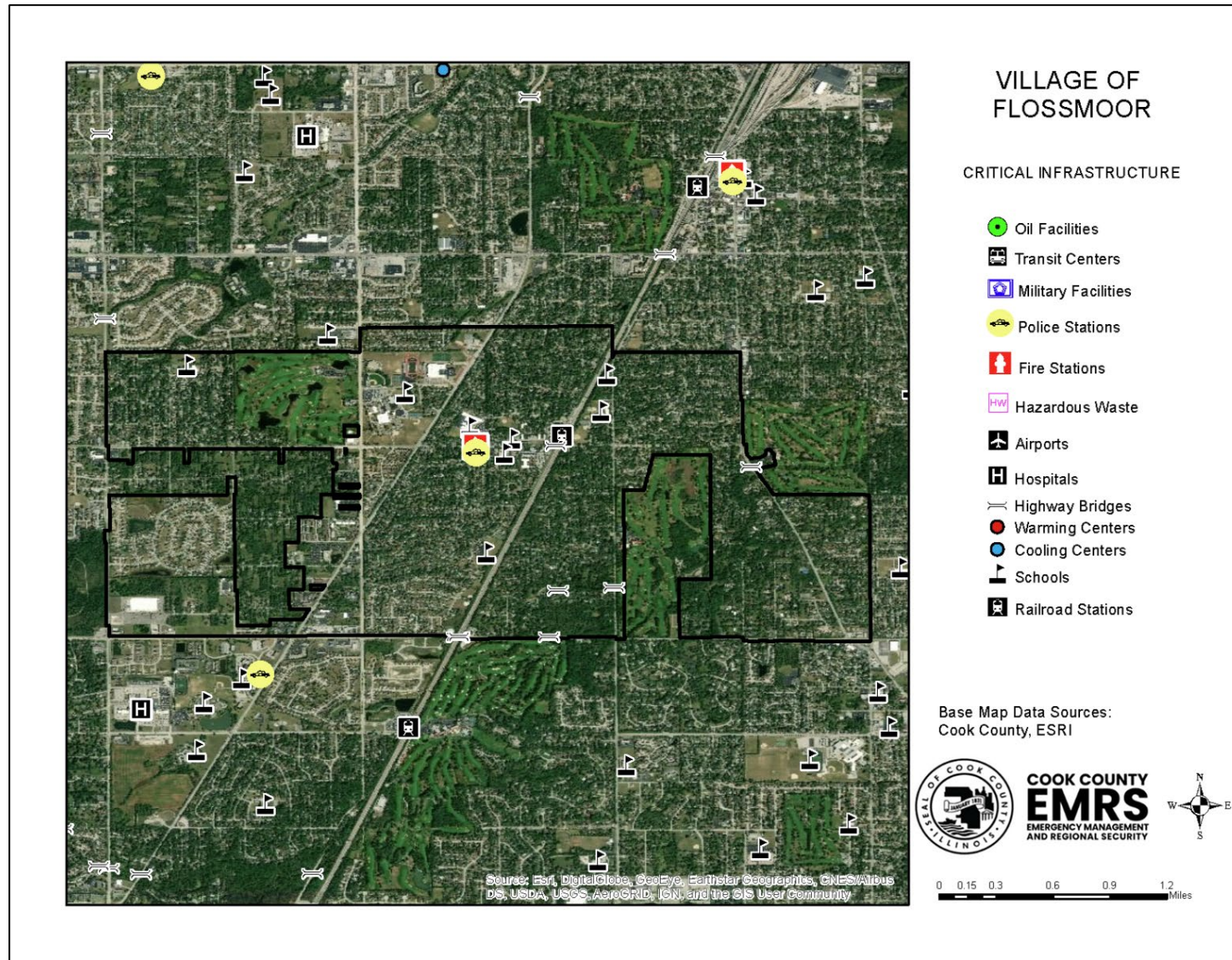
viaduct, severely hampering critical services in an emergency. This project will involve the construction of a relief storm sewer that will help drain the viaduct during larger storm events.

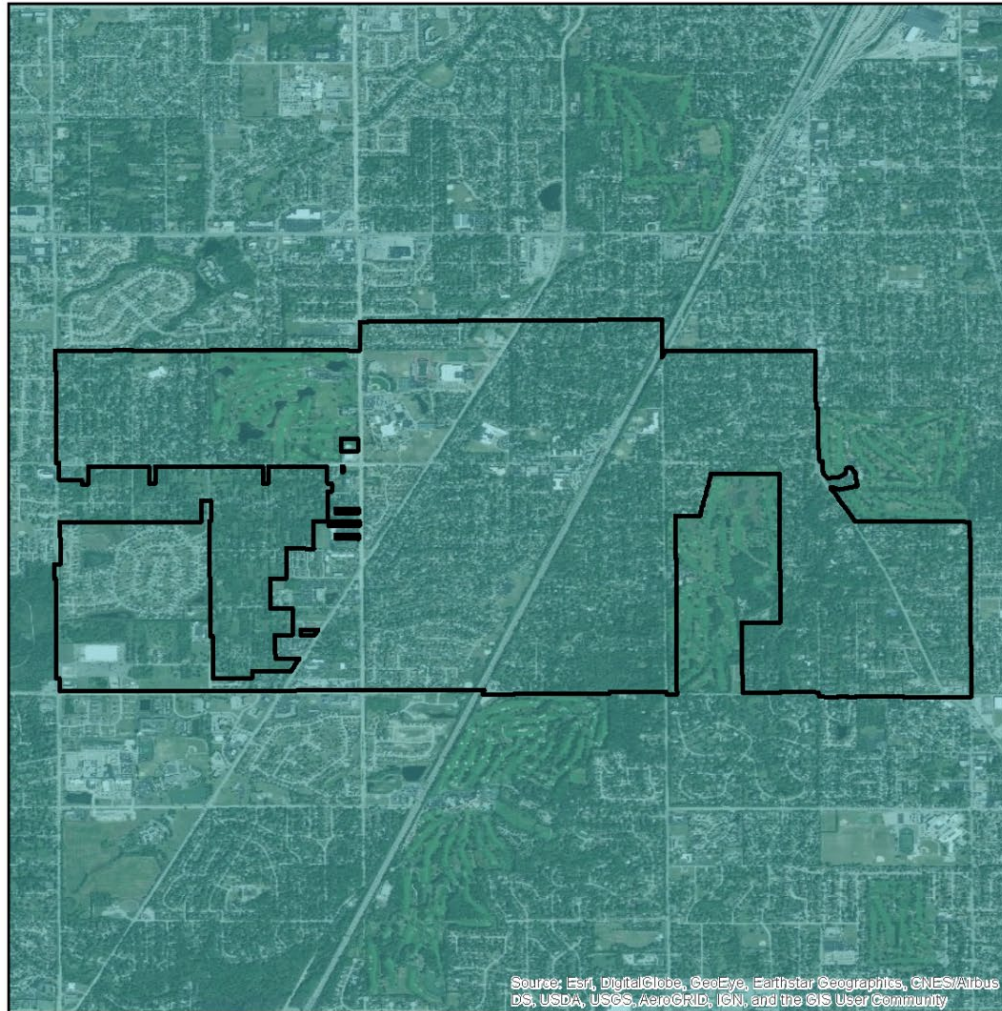
The Butterfield Road flood control project involves the construction of a floodwater reservoir to increase flood storage capacity on Butterfield Creek. This project is located on Butterfield Road, upstream of the Brookwood Bridge.

The Dartmouth Bike Bridge and Stabilization Project involves the replacement of the existing bike bridge over Butterfield Creek and the construction of bank stabilization measures adjacent to the bike path. The existing bike bridge is in a severely deteriorated state and suffers damage to the wood deck during flood events. The creek banks are also severely eroded, and measures need to be implemented to ensure that the bike path property is not lost to Butterfield Creek.

The Village of Flossmoor does not currently have an early warning storm siren in the event of a tornado, and we rely on sporadic coverage from storm sirens in neighboring communities. The Village is seeking alternative funding sources to install and operate a storm siren warning system that would provide notification to residents when severe weather is imminent.

Hazard Mapping





VILLAGE OF FLOSSMOOR

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.

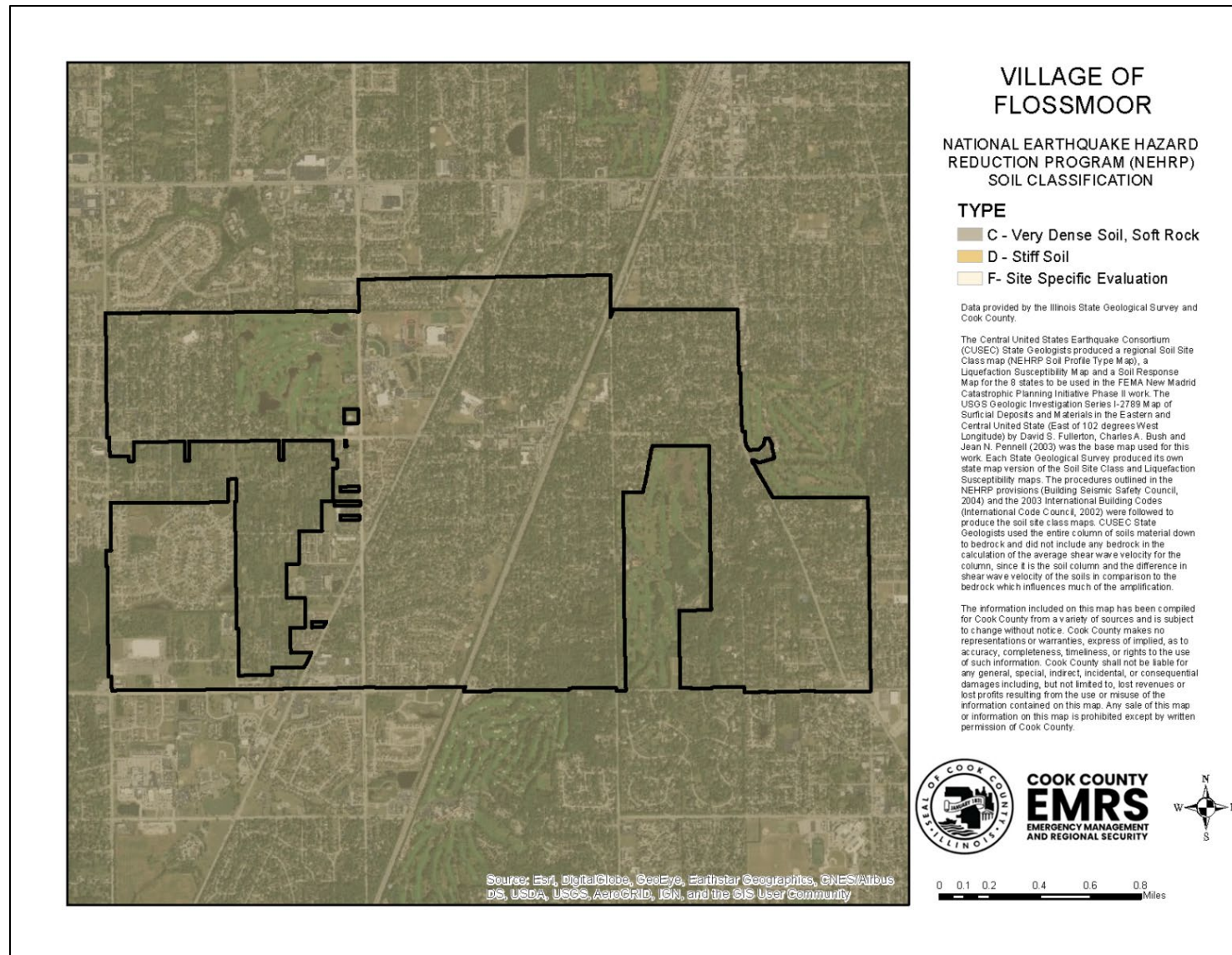
The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notice. Cook County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. Cook County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost 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.



COOK COUNTY
EMRS
EMERGENCY MANAGEMENT
AND REGIONAL SECURITY



0 0.15 0.3 0.6 0.9 1.2 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>.

