

Prospect Heights

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: January 31, 1976

Current Population: The 2020 U.S. Census population was 16,058. The 2022 U.S. Census estimate indicated the population was 15,486.

Population Growth: The overall population has decreased by 3.30% between 2018 and 2022.

Location and Description: City of Prospect Heights is located 22 miles northwest of downtown Chicago in an area bounded by Hintz Road on the north, Euclid Avenue on the south, Sanders on the East and Dryden on the west. The City is approximately 4.24 square miles of primarily residential single and multifamily housing. Prospect Heights is located in one of the lowest elevation depression areas in Cook County. We have many problems due to flooding as we are close proximity to the Des Plaines River.

Brief History: In 1830, a tract of one thousand acres of prairie and wetlands was located at what later became the intersection of Elmhurst Road (Illinois State Route 83) and Willow Road. This is where Hiram Kennicott established his farm that supplied dairy products to the growing Chicago market, over 100 years later, in 1935; the first residential houses were built along Elmhurst Road by Carlton Smith and Allen Dawson, developers who were nationally recognized for their promotion of the Federal Housing Administration Financing program. In 1938, the small community formed the Prospect Heights Improvement Association, which served both social and Governmental needs, by 1945 there were 317 homes in Prospect Heights and property sales were conducted from a building at Camp McDonald and Elmhurst Roads, this building served as a meeting place, general store and post office. Unincorporated from 1936, there was little interest in incorporation until mounting issues and threatened annexation resulted in Prospect Heights' incorporation in 1976. By the 1980s, Prospect Heights had retained a country like atmosphere amongst busy streets, a thriving airport and a growing suburban environment located 21 miles northwest of Chicago's loop. The east side of Prospect Heights, bordered by the Des Plaines River and the Villages of Glenview and Northbrook

contains a small number of commercial ventures, the airport, and is now location to over half of the city's housing found in multi-family apartment complexes. The west side encompasses two sloughs, McDonald Creek and is made up of houses on half acre lots with private wells bordered by the Cities of Arlington Heights, Mount Prospect and the Village of Wheeling. There have been at least a dozen major flooding events that have occurred since incorporation in 1976 and scores of lesser events which ultimately resulted in the establishment of a Levee Wall (#37) along the Des Plaines River at Milwaukee and River Roads.

Climate: The climate of Prospect Heights and the Chicago area is classified as humid continental, with all four seasons distinctly represented: wet springs; hot and humid summers; pleasant autumns; and cold winters. Annual precipitation is average, and reaches its lowest points in the months of January and February, and peaks in the months of May and June. Winter proves quite variable. Seasonal snowfall in the city has ranged from 9 – 90 inches. The daily average temperature in January at Midway Airport is 24.8 °F (–4.0 °C), and temperatures often stay below freezing for several consecutive days or even weeks in January and February. Temperatures drop to or below 0 °F (–18 °C) on 5.5 nights annually at Midway and 8.2 nights at O'Hare. Spring in the Chicago area is perhaps the city's wettest and unpredictable season. Winter like conditions can persist well into April and even occasionally into May. Thunderstorms are especially prevalent in the spring time as the city's lakeside location makes it a center of conflicts between large volumes of warmer and colder air, triggering many kinds of severe weather. Temperatures vary tremendously in the springtime; March is the month with the greatest span between the record highs and lows. On a typical summer day, humidity is usually moderately high and temperatures ordinarily reach anywhere between 78 and 92 °F (26 and 33 °C). The extreme heat that the Chicago area is capable of experiencing during the height of the summer season can persist into the autumn season. Temperatures have reached 100 degrees high and subzero lows below –18 °C. Fall can bring heavy thunderstorms, many of which are capable of producing flooding. The average first accumulating snow occurs around Nov 19.

Governing Body Format: The City of Prospect Heights utilizes a Mayor/Council/City Manager form of government (Illinois City / County Management Association accredited). The governmental body is Mayor-Aldermanic form of government. This body of Government will assume the responsibility for the adoption and implementation of this plan. The City of Prospect Heights is a non-home rule community. Prospect Heights operates 4 departments including: Administration, Building and Development Department, Police Department, and Public Works Department.

Development Trends: The City is in the midst of updating its comprehensive plan trending towards redevelopment of shopping areas as well as development of vacant land on the east side. Our land uses assure that new development is compatible with existing and proposed neighboring land uses. It is the City's goal to provide desirable and balanced land use patterns that include residential, commercial, limited industrial, office, public and semi-public areas. The City of Prospect Heights is committed to pursue high standards for development within our boundaries and maintain the rural atmosphere of the City as a whole in the residential areas. The City of Prospect Heights represents diverse economic development opportunities. Combining such assets as beautiful neighborhoods, natural areas and a country atmosphere, convenient access to the Tollway and other regional arterials, business corridors on Rand Road, Milwaukee Avenue and Elmhurst and Wolf Roads, and Chicagoland Executive Airport, the City is an outstanding community to live, work, play and shop. There are current opportunities for businesses and economic development.

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 ORD-0-06-50, 10/28/2013
Zonings	Yes	No	No	No	(65 ILCS 5/) Illinois Municipal Code. -0-77-27, 10/28/2013
Subdivisions	Yes	No	No	No	ORD-0-77-02, 10/28/2013
Stormwater Management	Yes	No	MWRD	No	ORD-0-08-31, 10/28/2013
Post Disaster Recovery	Yes	No	Yes	No	ORD-0-09-58, 10/28/2013
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act., 10/28/2013
Growth Management	No	No	No	No	
Site Plan Review	Yes	No	No	No	ORD-0-06-50/06-49, 10/28/2013
Public Health and Safety	Yes	No	Yes	Yes	ORD-0-05-23, 10/28/2013

Environmental Protection	Yes	Yes	Yes	Yes	IEPA, US EPA, MWRD Cook County Forest Preserve District
Planning Documents					
General or Comprehensive Plan	Yes	No	No	No	Ord. #O-14-15 Adopting 2014 Comp Plan
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					N/A
Floodplain or Basin Plan	No	Yes	Yes	No	MWRD Detailed Watershed Plan
Stormwater Plan	Yes	Yes	Yes	No	Regional stormwater impacts are managed by MWRD. The Village lies within the lower Des Plaines River-McDonald Creek 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 CIP Plan addresses streets, stormwater management, sanitary sewer, water, all buildings and infrastructure and drainage
<i>How often is the plan revised/updated?</i>					Annually --- planning 5 years out.
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	No	No	Yes	CIP Budget and Comprehensive Land Use Plan 2013

Shoreline Management Plan	No	No	U.S. Army Corps of Engineers	Yes	Currently working on this spring's clean-up plan and have the Eagle Scouts on board for a project.
Response/Recovery Planning					
Comprehensive Emergency Management Plan	Yes	Yes	Yes	Yes	EOP 2013
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	Yes	Yes	Yes	Yes	EOP/FAA
Post-Disaster Recovery Plan	Yes	Yes	Yes	Yes	EOP-2013
Continuity of Operations Plan	Yes	Yes	Yes	Yes	EOP-2013
Public Health Plans	Yes	Yes	Yes	Yes	ORD-0-05-23

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	No
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	No
Incur Debt through Special Tax Bonds	No
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	Yes
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	

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	Engineering/ BZ/ Administration
Engineers or professionals trained in building or infrastructure construction practices	Yes	Engineering/ BZ
Planners or engineers with an understanding of natural hazards	Yes	Engineering

Staff with training in benefit/cost analysis	Yes	Administration/ Finance Department
Surveyors	Yes	Contracted
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Cook County EMRS
Grant writers	Yes	Administration/ Contracted

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE	
What department is responsible for floodplain management in your jurisdiction?	Engineering
Who is your jurisdiction's floodplain administrator? (department/position)	City Engineer
Are any certified floodplain managers on staff in your jurisdiction?	Yes
What is the date of adoption of your flood damage prevention ordinance?	8-20-1990/ Updated 07-19-2008
When was the most recent Community Assistance Visit or Community Assistance Contact?	10/10/2023, DR4728
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/Yes

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 afterwards 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 provide the following services: permit reviews, GIS, inspections, engineering capability.
- My community's Floodplain Administrator is a Certified Floodplain Manager (CFM).

- 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. The city maintains a CRS rating of 6.

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:

7-1-3 Definitions

SUBSTANTIAL IMPROVEMENT: Any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds fifty percent (50%) of the market value of the structure either: a) before the improvement or repair is started, or b) if the structure has been damaged, and is being restored, before the damage occurred.

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 structure.

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 structure listed on the national register of historic places or a state inventory of historic places.

7-1-5 Duties of the Enforcement Official

The city engineer 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 on which a detailed study has not been conducted which drains more than one square mile.

B. **Professional Engineer Review:** If the development site is within a floodway or in a floodplain on which a detailed study has not been conducted which drains more than one square mile then the permit shall be referred to a registered professional engineer (PE) under the employ or contract of the city for review to ensure that the development meets the requirements of section 7-1-8 1 of this chapter. In the case of an appropriate use, the PE shall state in writing that the development meets the requirements of section 7-1-8 of this chapter.

Their ordinance did not include substantial improvement / substantial damage rule provisions; future updates will consider inclusion of these rules as applicable and as appropriate.

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	Classification	Date Classified
Community Rating System	Yes	6	2019
Building Code Effectiveness Grading Schedule	Yes	3	12-12-2017
Public Protection/ISO	Yes	2	11-19-18
StormReady	Yes	Gold (countywide)	2014
Tree City USA	Yes	N/A	05-01-2013

Opportunities to Expand and Improve Capabilities

Opportunities to expand and improve capabilities include improving our capabilities with additional storm water infrastructure design and construction. The need also exists for back-up emergency power resources. The city also requires an update and adoption of current building codes.

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:

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

Emergency Plan Integration:

Cook County EMRS is supporting communities to develop and update their respective Emergency Operations Plans, Continuity of Operations Plan/Continuity of Government Plan, and Recovery Plan 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 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 prioritizes 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: 5 (4 Single Family, 1 Other Residential)
- 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
Severe Weather	-	8/28/2018	\$10,000 in property damage.
Severe Storm	-	6/9/2018	3.2 inches of rain/street, yards and basement flooding
Severe Storm	-	7/12/2017	4.5 inches of rain/street, yard and basement flooding
Severe Weather	-	9/5/2014	-
Severe Winter Storm	-	1/1/2014	13.8 inches of snow
Severe Storm	-	7/24/2013	3.74 inches of rain/street and basement flooding
Severe Storm	-	6/26/2013	3.75 inches of rain/street and basement flooding
Severe Storm	DR-4116	4/18/2013	4.8 inches of rain/street and basement flooding
Severe Storm	9325782	7/22/2011	4.25 inches of rain/street and basement flooding

Severe Storm	-	6/21/2011	Severe storm with damage to trees
Illinois Severe Winter Storm and Snowstorm	DR-1960	1/31/2011	Heavy snow.
Illinois Severe Storms and Flooding	DR-1935	7/19/2010	Flooding, response and damage
Severe Storm	9322464	6/19/2009	3.20 inches of rain/street and basement flooding
Severe Storm	DR-1800	9/13/2008	7.26 inches of rain/street and basement flooding
Wind-Winter Weather	8867633	1/22/2008	Snow removal.
Flooding	8810172	9/13/2006	4.44 inches of rain/street and basement flooding
Illinois Winter Snowstorm	EM-3134	1/1/1999	21.6 inches of snow
Illinois Severe Storms, Flooding	DR-798	8/13/1987	-
Illinois Severe Storms, Flooding	DR-776	9/21/1986	-

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.

Dam and Levee Failure: Approximately 7,000 residents reside in the 2,800 multi-family housing units located on the City's eastside, which are protected by over 8,000 feet of Levy 37 infrastructure.

Flood: We have experienced flooding at Willow Road between Elmhurst and Wheeling Roads, Arlington Countryside subdivision, Elmhurst Rd (IDOT) between Willow Road and Camp McDonald, and Old Willow Road Apartments - Eastside. The City also experienced overflows near many homes along McDonald Creek in multiple locations, impacting Patricia, Wheeling, Alton, Own and Elm Streets. Other streets affected include Sherwood, Glenbrook, Wildwood, Palatine Frontage-Milwaukee Ave. Arlington Countryside, Old Willow between Wolf and River Rd, Tully and S. Wheeling. The city has several residential neighborhoods served by aging and undersized or no storm sewer. The majority of the city developed without urban planning considerations.

Extreme Heat: In the case of extreme heat, we need planning assistance for two (2) new assisted living communities.

High Winds: We need generators for critical facilities during high winds, including our Public Works building and water pump station. Our community also needs a portable generator for life station use.

Extreme Cold: Due to our previous experiences with extreme cold, we require upgrades for Public Works' snow and ice equipment for liquid de-icers. Also, as earlier noted, we need planning assistance for our two (2) new assisted living communities.

Ice Storms: Similar to the impacts of high winds in our jurisdiction, we need generators to ensure the continuity of operations of our critical facilities during severe ice storms.

Severe Weather: Being a non-home rule community, we have limited access to resources needed to recover from severe hazard events. We have an aged utility power system with very limited emergency power options. High density, lower income multi-family housing is located adjacent to Levy 37 which does not have back-up generator and requires extra manpower during emergency situations.

Severe Winter Weather: During severe winter events, the City is not equipped to address road maintenance for local roads. 1,500 multi-family lower socioeconomic households require immediate cold weather shelter and basic needs.

Indicator	Number	Percent
Families in poverty	598	4.9%
People with disabilities	4,287	9.3%
People over 65 years	9,172	19.8%
People under 5 years	2,994	6.5%
People of color	16,863	36.5%
Black	1,496	3.2%
Native American	8	0%
Hispanic	8,578	18.5%
Difficulty with English	3,806	8.8%
Households with no car	1,043	5.5%
Mobile homes	19	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.

Future studies are needed to better understand the impact of climate change on the community's assets.

Hazard	Vulnerability
Current Vulnerability	
Dam and Levee Failure	Increased
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)	Increased
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	Increase
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)	Increase
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	Increase
Drought	No Change is Anticipated
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	Increase
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

The Chicago Executive Airport expansion is vulnerable to flooding and severe winter weather resulting in the interruption of airport operations and growth.

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

New Mitigation Actions

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

Action P-9.24

Mitigation Action #24: Dorset Area residential flooding- Installing new, and upsizing undersized storm water system to reduce excessive ponding which causes residential damage and road closures.					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund Hazard Mitigation Grant Program (HMGP)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)
Year Initiated		2026-2027			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,3,9,13			
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:		Dorset Area residential flooding- Installing new, and upsizing undersized storm water system to reduce excessive ponding which causes residential damage and road closures.			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion;		N			

O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	
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Action P-9.25

Mitigation Action #25: Upsize Storm sewer on Clarendon, Dale, and Schoenbeck Roads.					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)
Year Initiated		2029			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,9			
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:	Upsize Storm sewer on Clarendon, Dale, and Schoenbeck Roads. Adding new pipe between W Marion Street and Dorset to reduce flooding impact for residents in depression bowl area. Storm water ponding causes roads to be closed to vehicles and emergency access, and degrades the roadway. 4.5 mil
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 P-9.26

Mitigation Action #26: Replace undersized historic clay field tile from Elm St / Willow Road to N/S Parkway at Elmhurst concrete pipe-					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)

			Assistance (FMA) Program FEMA Public Assistance (PA)		
Year Initiated	2030				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1,2,7,9				
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:	Replace undersized historic clay field tile from Elm St / Willow Road to N/S Parkway at Elmhurst concrete pipe- About 2,000' of pipe. benefiting 50 residential homes on Elm, Circle, Parkway, Willow, and Pine Street. Adding new pipe to reduce flooding impact for residents in depressional bowl area. Storm water ponding causes Elm Street to be closed to vehicles, eliminates emergency access, and degrades the roadway. 2 Mil				
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 P-9.27

Mitigation Action #27: Elm Street near Camp McDonald to Pine - Add additional capacity/flow to the Camp McDonald Creek tributary under Elm St just North of Camp McDonald Road.

Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)
Year Initiated		2028			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,7,9			
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:		Elm Street near Camp McDonald to Pine- Add additional capacity/flow to the Camp McDonald Creek tributary under Elm St just North of Camp McDonald Road. The creek over tops the roadway causing property damage and closes the street to vehicle and			

	emergency access. This flooding has caused extensive property damage at the Park District. 200 K
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 P-9.28

Mitigation Action #28: Drake Terrace - East/West - Improve storm water management					
Lead Agency/Department Organization: Administration	Supporting Agencies/Organizations:	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)

Year Initiated	2029
Applicable Jurisdiction	City of Prospect Heights
Applicable Goal	1,2,3,4,5,6
Applicable Objective	1,2,7,9
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:	Drake Terrace - East/West - Subdivision built with little storm water management- Ponding occurs commonly even with mid size events- Additional structures, 3,500' pipe, and storage capacity need to be created to reduce neighborhood impact. 2.5 Mil
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 P-9.29

Mitigation Action #29: Willow Trails Storm Water Project					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations: River Trails Park District	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)

			Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)		
Year Initiated	2025				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1,2,4,9,12				
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:	Willow Trails Storm water Project -Project creation detention, capacity, installing pipes, structures, to help reduce flooding on in the Willow Trails Park neighborhoods. 4 mil.				
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 P-9.30**Mitigation Action #30: Lake Claire basin connection**

Lead Agency/Department Organization: Administration	Supporting Agencies/Organizations: River Trails Park District	Estimated Cost: High	Potential Funding Source: General Fund Hazard Mitigation Grant Program (HMGP) Flood Mitigation Assistance (FMA) Program Community Development Block Grant (CDBG) FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)
Year Initiated		2030			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,7,9			
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:		Lake Claire basin connection - Connection of 24" from Brian Lane to Lake Claire Park detention area- about 900' - reducing overload on existing system to fill basin sooner. Need engineering design. 400K-600K			
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	
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Action P-9.31

Mitigation Action #31: Elmhurst Box Culvert					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund Local or State Special Taxes Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)
Year Initiated	2026				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1,2,9				

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:	Elmhurst Box Culvert -- Replace undersized 42" concrete pipe with 4'x7' box culvert under Elmhurst Road near Hillside Avenue. To reduce flood height that causes the closure of State Route 83 / Elmhurst Road. 300-400k
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 P-9.32

Mitigation Action #32: Willow Heights / Old Willow Road connection					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)

			Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)		
Year Initiated	2029				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1,2,8,12				
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:	Willow Heights / Old Willow Road connection - Extend 24' storm water main near 900 Old Willow Road West to near 854 Old Willow to provide a path for excessive storm water during major events. Currently multiple parking lots are inundated and vehicles are lost due to flooding of parking lots. All built in the 1950's before current storm water management practices were adopted. 400K				
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 P-9.33**Mitigation Action #33: Hillcrest Lake overflow Project**

Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)
Year Initiated		2026			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,9			
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:		Hillcrest Lake overflow- Carl Ct - Currently Hillcrest lake overflow is directed thru residential area and creates property damage and uncontrolled flow. Project installs 900' of 30" rcp to direct overflow to the creek. 550 K			

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 P-9.34

Mitigation Action #34: Generator- Fresh Water Well House					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)
Year Initiated		2028			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2			
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)	High
Action/Implementation Plan and Project Description:	Generator- Fresh Water Well House -Permanent natural gas generator to provide automatic emergency power to City fresh water pumping station to keep operational. Currently back up power needs to be trailered in. 150 K
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 P-9.35

Mitigation Action #35: Generator- Levee 37					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)

			FEMA Public Assistance (PA)		
Year Initiated	2028				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1,2,3,6,9,12				
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:	Generator- Levee 37 -Permanent natural gas generator installed to provide emergency back up power to the Levee 37 Pump Station # 3 on Milwaukee Avenue. Currently back up power needs to be trailered in. 200k				
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 P-9.36

Mitigation Action #36: Generator-Public Works Facility					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund Hazard Mitigation Grant Program	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds)

			(HMGP) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)		Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)
Year Initiated	2028				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,4,5,6				
Applicable Objective	1,2,5,6,12				
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)	High				
Action/Implementation Plan and Project Description:	Generator- Public Works Facility- Permanent natural gas generator installed to provide emergency back up power to the City Public Works building. During emergency events this building may be used as a command center. Building is not equipped for any emergency power connection so doors, fuel delivery, gate control, and heating systems are all inoperable. 225k				
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 P-9.37

Mitigation Action #37: Generator-Wimbleton Purchase					
Lead Agency/Department Organization: Administration	Supporting Agencies/Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)
Year Initiated		2029			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,6,12			
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:		Generator Wimbleton Purchase of portable 125k trailer generator to run storm water lift station that protects 28 buildings with 180 units, and City Public Works building area. 100K			

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 P-9.38

Mitigation Action #38: Willow Road Flood Control Project					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)
Year Initiated		2024			
Applicable Jurisdiction		City of Prospect Heights			

Applicable Goal	1,2,3,4,5,6
Applicable Objective	1,2,7,12
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:	Willow Road Flood Control Project- at Hillcrest Lake - Raise Willow Road above flood level and create compensatory storage - 1st phase scheduled for Fall of 3.5mil
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 P-9.39

Mitigation Action #39: ICC Building Code Update					
Lead Agency/Department Organization: Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC)	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: All

			FEMA Public Assistance (PA)		
Year Initiated	2026				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,4				
Applicable Objective	2,3,6,10,11				
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:	ICC Building Code Update to 2021 Edition 10-15k				
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 P-9.3

Mitigation Action #3—Flooding areas in the Kenilworth / McDonald Creek area					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$1,000,000; High	Potential Funding Source: General Fund, FEMA	Estimated Projected Completion Date:	Hazard(s) Mitigated: Flooding

			funds, MWRD- Phase II	Five years, Short-term	
Year Initiated	2014				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3				
Applicable Objective	1, 2, 3, 7, 9				
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)	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	<p>O</p> <p>The city is finalizing IGA with MWRDGC and Cook County for the road rise project.</p>				

Action P-9.4

Mitigation Action #4: Flooding areas - Eastside Tax Increment Financing:					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$2,170,000; High	Potential Funding Source: General Fund, FEMA funds, MWRD-Phase II	Estimated Projected Completion Date: Five years, Short-term	Hazard(s) Mitigated: Flooding
Year Initiated	2014				
Applicable Jurisdiction	City of Prospect Heights				

Applicable Goal	1,2,3
Applicable Objective	1, 2, 3, 7, 9
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:	
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	<p>O</p> <p>Work is ongoing. Levee 37 wall just have one minor phase to complete. Other projects in the area are in the concept phase.</p> <p>Continue to work with IDNR for the Levee 37 project completion.</p>

Action P-9.10

Mitigation Action #10: Ponding areas on Glenbrook Drive					
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: \$25,000; Low	Potential Funding Source: General Fund, FEMA funds, MWRD-Phase II	Estimated Projected Completion Date: Two years, Short-term	Hazard(s) Mitigated: Flooding
Year Initiated	2014				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3				
Applicable Objective	1, 2, 3, 7, 9				
Cost Analysis (Low, Medium, High)	Low				

Priority and Level of Importance (Low, Medium, High)	Low
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 2022 Report Edit. Project not yet designed or implemented

Action P-9.13

Mitigation Action #13: Continue to support the countywide actions identified in this plan.					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short- and Long-term	Hazard(s) Mitigated: All
Year Initiated	2014				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,5				
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 P-9.14

Mitigation Action #14: Participate in the plan maintenance strategy identified in this plan.					
Lead Agency/Department Organization: EMRS, City Administration; Public Works	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	City of Prospect Heights				
Applicable Goal	1,5				
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 (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	O Work is ongoing and is being lead by the Public Works department.				

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

Action P-9.15

Mitigation Action #15: Continue to maintain City CRS Classification.					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		City of Prospect Heights			
Applicable Goal		1,2,3,5,6			
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)		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		<p>O</p> <p>Work was completed by 2017 lead by the City Engineer and the City was re-certified.</p> <p>The 2023 CRS Report has been completed, pending the rating of our classification score.</p>			

Action P-9.16

Mitigation Action #16: Maintain standing in the NFIP.

Lead Agency/Department Organization: City 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		City of Prospect Heights			
Applicable Goal		1,2,5			
Applicable Objective		4,6,9			
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 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 P-9.17

Mitigation Action #17: Recording high water marks following high-water events.					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund, FEMA Public	Estimated Projected Completion Date: Long Term	Hazard(s) Mitigated: Flooding; Severe Weather

			Assistance (PA)		
Year Initiated	2014				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,5				
Applicable Objective	3,6,9				
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 P-9.18

Mitigation Action #18: Integrate the hazard mitigation plan into other programs.					
Lead Agency/Department Organization: Engineering	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and ongoing	Hazard(s) Mitigated: All
Year Initiated	2014				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,5				

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 (Loss Avoided or Issue Being Mitigated)	Medium
Action/Implementation Plan and Project Description:	The City looks to implement actions in this plan and also looks at ways to incorporate, as practical, into other City programs/plans.
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 P-9.19

Mitigation Action #19: Install large, portable generator needed for backup power supply used on storm water lift station at Levee 37 Des Plaines River					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: HMGP, BRIC, General Fund	Estimated Projected Completion Date: Short Term	Hazard(s) Mitigated: Flooding, Widespread Power Outage
Year Initiated	2019				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3				
Applicable Objective	1,2,12				
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)	High - Project will provide an immediate reduction of risk exposure for life and property.
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 P-9.20

Mitigation Action #20: Identification and Improvements to address restrictive hydraulic conditions on McDonald Creek Citywide					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: HMGP, BRIC, General Fund	Estimated Projected Completion Date: 5 year, Short-term	Hazard(s) Mitigated: Flooding
Year Initiated	2022				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1				
Applicable Objective	1, 2, 9				
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)	Reduce impacts of flood loss to residential homes and properties 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:	Mitigation action will identify damming and flooding causes and locations along McDonald Creek. Implementation of the plan will identify strategies to reduce or eliminate or reduce impacts of flooding.
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 P-9.21

Mitigation Action #21: Willow Trails Park Storm water conveyance and storage improvements					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations: Willow Trails Park District	Estimated Cost: Medium	Potential Funding Source: HMGP, BRIC, General Fund, River Trails Park District	Estimated Projected Completion Date: 2025	Hazard(s) Mitigated: Flooding
Year Initiated					
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1				
Applicable Objective	1, 2, 9				
Cost Analysis (Low, Medium, High)	Medium—The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.				
Priority and Level of Importance (Low, Medium, High)	High				

Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Improve storm water conveyance that benefit the area and reduce flood damage 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:	River Trails is planning a major capital project to improve the River Trails Park. City is planning to implement storm water and conveyance system improvements for the area.
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 City Received \$2.4 mil. Community Projects Funding announced in September 2023

Action P-9.22

Mitigation Action #22: Levee 37 Wall Damage Repair					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations:	Estimated Cost: High - \$1,500,000	Potential Funding Source: General Fund	Estimated Projected Completion Date: 3 - 5 years	Hazard(s) Mitigated: Dam/levee failure, Flooding
Year Initiated	2023				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	3				
Applicable Objective	1, 2, 9				
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)	Closure of Illinois Route 21 (Milwaukee Ave) property damage High—Project will provide an immediate reduction of risk exposure for life and property.
Action/Implementation Plan and Project Description:	Levee 37 project protects City of Prospect Heights and was damaged in an intentional car accident by an uninsured motorist causing structural damage to the Levee. Multiple sections of the wall will need to be replaced. Coordination between local, state and federal agencies is required.
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 P-9.23

Mitigation Action #23: Stormwater Management Improvements for East Arlington Countryside Area					
Lead Agency/Department Organization: City Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$2,000,000 high	Potential Funding Source: General Fund, BRIC, HMGP, FEMA, MWRD	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding
Year Initiated	2023				
Applicable Jurisdiction	City of Prospect Heights				
Applicable Goal	1,2,3,5,6				
Applicable Objective	1, 2, 9				
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)	Stormwater management and flood risk reduction in an area 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:	City completed the Arlington Countryside project in 2023. East Arlington Countryside is the area immediately east and experiences significant stormwater flooding. Preliminary engineering for this area is currently targeted in the City's FY 25-26 Capital Plan.
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
Ponding on Eleanor Drive
Ponding on Lynbrook Drive
Ponding on Drake Avenue east.
Ponding on Drake Avenue west.
Flooding areas on Elm - near Willow Ave

Ponding areas on South Wildwood Drive
Flooding areas in Arlington Countryside
Ponding areas on Alton Road
Structures in flood hazard prone areas.

Future Needs to Better Understand Risk/Vulnerability

None at this time.

Additional Comments

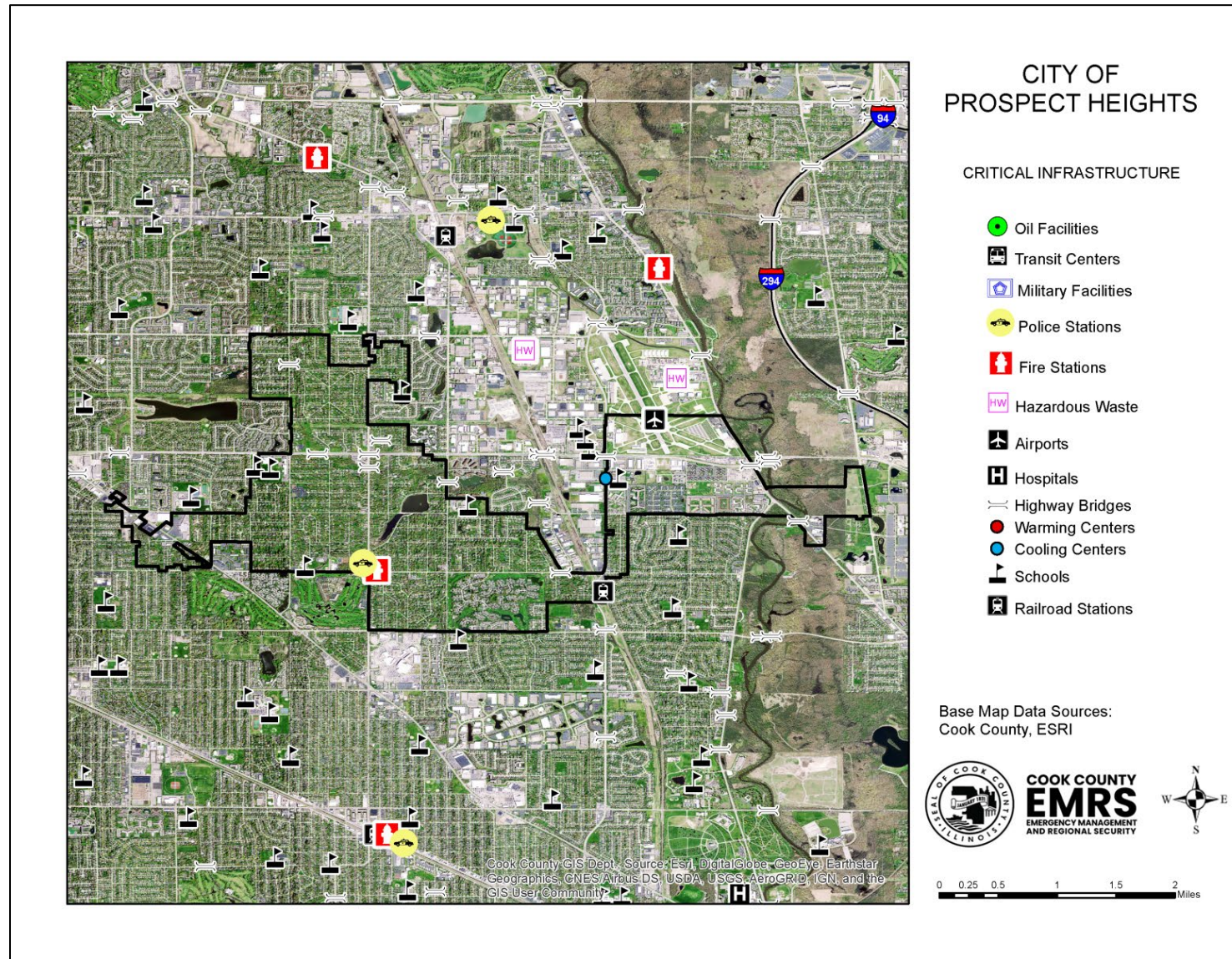
Levee 37 flood retention wall was completed in a cooperative project with Mount Prospect.

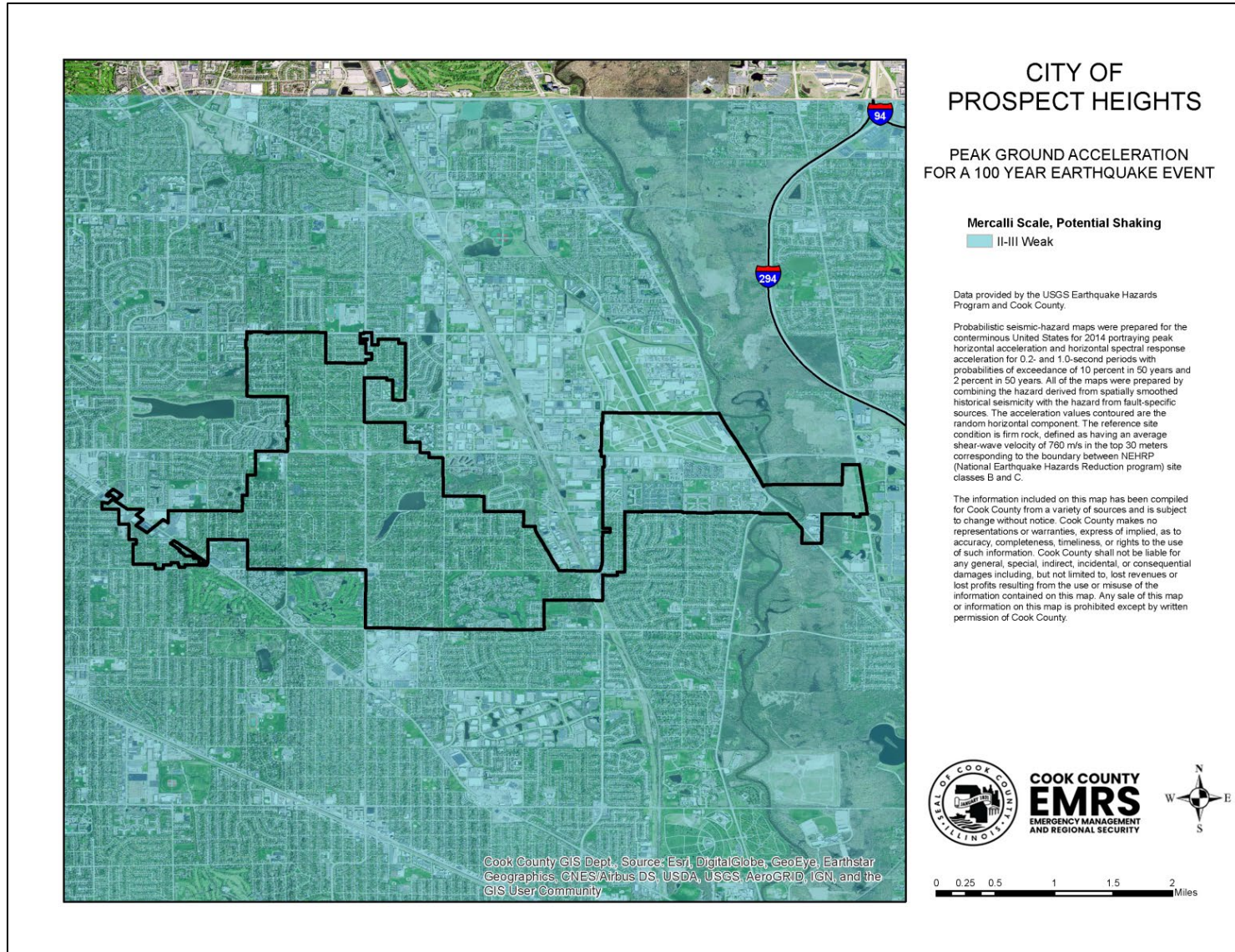
Our PW department has a program where they check all creeks and streams in the city after a 1 inch rainfall. They clear them out yearly. In addition we have a group called “Friends of McDonald Creek” that walk the entire creek once a year and report to the city and MWRD any problems or questionable releases into the creek. The city works with MWRD to inspect and report. This is all a portion of our NPDES requirements and is submitted yearly to the IEPA.

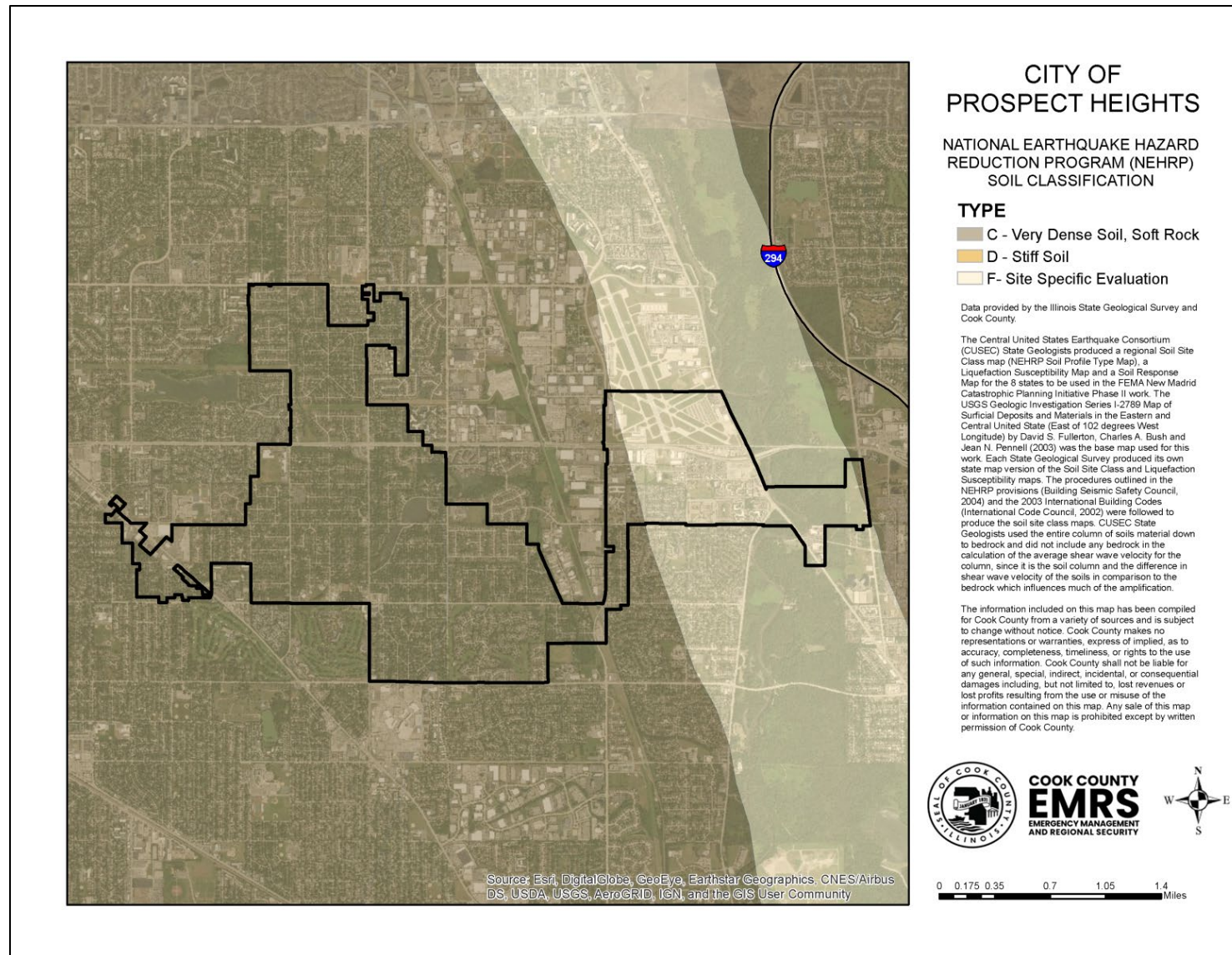
Prospect Heights is located in one of the lowest depressional areas in Cook County. Our ideal would be to get funding to purchase several of the homes that have consistently flooded in the last 25 years and build detention/retention for those areas as needed.

Figure: Cook County MWRDGC 100-Year Inundation Area in the [Hazard Mapping](#) section of this annex shows areas of flooding concern for the Village.

Hazard Mapping







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>.

