

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

Prospect Heights Annex

FINAL

July 2019

Prepared for:



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

Primary Point of Contact	Alternate Point of Contact
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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:** 16,014 as of the 2018 U.S. Census population estimate.
- **Population Growth:** The City population from April 2010 to 2018 has decreased by approximately 1.5% from 16,256 to 16,014, per Census estimates. With limited open space for residential development, the City of Prospect Heights will see minimal increase in population in the future. A maximum increase of 5% over the next 10 years would be considered realistic. From 2010 to 2010 there has been minimal if any population changes in Prospect Heights.
- **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.

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	No	No	No	No	
<i>Is the plan equipped to provide linkage 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 DHSEM 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	Yes
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

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 DHSEM
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?	02/11/1998
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

TABLE: COMMUNITY CLASSIFICATIONS

	Participating?	Classification	Date Classified
Community Rating System	Yes	7	10-1-2012
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

Jurisdiction-Specific Natural Hazard Event

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

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

- Number of FEMA-Identified Repetitive Loss Properties: 3
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 1

TABLE: NATURAL HAZARD EVENTS			
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment
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 and Impacts

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2019 Cook County Multi-Jurisdictional Hazard Mitigation Plan Update. This section only addresses the hazards and their associated impacts that are **relevant** and **unique** to the municipality.

Flood: 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.

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.

Hazard Risk Ranking

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

TABLE: HAZARD RISK RANKING		
Rank	Hazard Type	Risk Rating Score (Probability x Impact)
1	Severe Weather	54
2	Flood	54
3	Tornado	54
4	Earthquake	54
5	Severe Winter Weather	51
6	Dam Failure	22
7	Drought	9

Mitigation Strategies and Actions

The heart of the mitigation plan is the mitigation strategy, which serves as the long-term blueprint for reducing the potential losses identified in the risk assessment. The mitigation strategy describes how the community will accomplish the overall purpose, or mission, of the planning process. In this section, mitigation actions/projects were updated/amended, identified, evaluated, and prioritized. This section is organized as follows:

- New Mitigation Actions - New actions identified during this 2019 update process
- Ongoing Mitigation Actions - Ongoing actions with no definitive end or that are still in progress. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.
- Completed Mitigation Actions - An archive of all identified and completed projects, including completed actions since 2014.

The Hazard Mitigation Action Plan Matrix Table below lists the actions that make up the jurisdiction’s hazard mitigation plan. The Mitigation Strategy Priority Schedule Table identifies the priority for each action.

TABLE: HAZARD MITIGATION ACTION PLAN MATRIX						
Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
Action P9.1—Ponding on Eleanor Drive						
Completed	Flooding	1, 2, 3, 7, 9	Public Works	\$50,000; Low	General Funds, FEMA funds, MWRD-Phase II	Completed
Action P9.2—Ponding on Lynbrook Drive						
Completed	Flooding	1, 2, 3, 7, 9	Public Works	\$65,000; Low	General Funds, FEMA funds, MWRD-Phase II	Completed
Action P9.3—Flooding areas on Kenilworth / McDonald Creek area						

Ongoing	Flooding	1, 2, 3, 7, 9	Public Works	\$200,000; Low	General Funds, FEMA funds, MWRD-Phase II	2 years, Short-term
Action P9.4—Flooding areas – Eastside Tax Increment Financing						
Ongoing	Flooding	1, 2, 3, 7, 9	Public Works	\$2,170,000; High	General Funds, FEMA funds, MWRD-Phase II	5 years, Short-term
Action P9.5—Ponding on Drake Avenue East						
Completed	Flooding	1, 2, 3, 7, 9	Public Works	\$75,000; Medium	General Funds, FEMA funds, MWRD-Phase II	Completed
Action P9.6—Ponding on Drake Avenue West						
Completed	Flooding	1, 2, 3, 7, 9	Public Works	\$100,000; Medium	General Funds, FEMA funds, MWRD-Phase II	Completed
Action P9.7—Flooding areas on Elm - near Willow Ave						
Completed	Flooding	1, 2, 3, 7, 9	Public Works	\$960,000; High	General Funds, FEMA funds, MWRD-Phase II	Completed
Action P9.8—Ponding areas on South Wildwood Drive						
Completed	Flooding	1, 2, 3, 7, 9	Public Works	\$35,000; Low	General Funds, FEMA funds,	Completed

					MWRD-Phase II	
Action P9.9—Flooding areas in Arlington Countryside						
Ongoing	Flooding	1, 2, 3, 7, 9	Public Works	\$3,200,000; High	General Funds, FEMA funds, MWRD-Phase II	5 years, Long-term
Action P9.10—Ponding areas on Glenbrook Drive						
Ongoing	Flooding	1, 2, 3, 7, 9	Public Works	\$25,000; Low	General Funds, FEMA funds, MWRD-Phase II	2 years, Short-term
Action P9.11—Ponding areas on Alton Road						
Ongoing	Flooding	1, 2, 3, 7, 9	Public Works	\$50,000; Medium	General Funds, FEMA funds, MWRD-Phase II	2 years, Short-term
Action P9.12—Structures in flood hazard prone areas						
Ongoing	All	7, 13	Village of Prospect Heights	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action P9.13—Continue to support the countywide actions identified in this plan						
Ongoing	All	All	Village of Prospect Heights	Low	General Fund	Short- and long-term
Action P9.14—Participate in the plan maintenance strategy identified in this plan						
Ongoing	All	3, 4, 6	DHSEM, Village of Prospect Heights	Low	General Fund	Short-term
Action P9.15—Continue to maintain/enhance City's CRS classification						

Ongoing	Flood	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Prospect Heights	Low	General Fund	Long-term
Action P9.16 —Maintain standing in NFIP Program						
Ongoing	Flooding	4, 6, 9	Village of Prospect Heights	Low	General Fund	Short-term and ongoing
Action P9.17 —Recording high water marks following high-water events						
Ongoing	Flooding, Severe Weather	3, 6, 9	Village of Prospect Heights	Medium	General Fund, FEMA Grant Funds (Public Assistance)	Long-term
Action P9.18 —Integrate the hazard mitigation plan into other programs						
Ongoing	All	3, 4, 6, 10, 13	Engineering	Low	General Fund	Short-term
Action P9.19 —Install large, portable generator needed for backup power supply used on storm water lift station at Levee 37 Des Plaines River						
New	Flood; Widespread Power Outage	1, 2, 12	Unknown	High	Unknown	Unknown
(a) Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.						

TABLE: MITIGATION STRATEGY PRIORITY SCHEDULE							
Action Number	Number of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)
1	5	High	Low	Yes	Yes	Yes	Very High
2	5	High	Low	Yes	Yes	Yes	Very High
3	5	High	Medium	Yes	Yes	No	High

4	5	High	High	Yes	Yes	No	High
5	5	High	Low	Yes	Yes	No	Low
6	5	High	Low	Yes	Yes	No	High
7	5	High	High	Yes	Yes	No	Medium
8	5	High	Low	Yes	Yes	No	Med-High
9	5	High	High	Yes	Yes	No	Med
10	5	High	Low	Yes	Yes	No	Low
11	5	High	Low	Yes	Yes	No	Low
12	2	High	High	Yes	Yes	No	Medium
13	13	Medium	Low	Yes	No	Yes	High
14	3	Medium	Low	Yes	Yes	Yes	High
15	9	Medium	Low	Yes	No	Yes	Medium
16	3	Medium	Low	Yes	No	Yes	High
17	3	Medium	Medium	Yes	Yes	No	Medium
18	5	Medium	Low	Yes	No	Yes	High
19	3	High	High	Yes	Yes	Unknown	High

(a) See Chapter 1 for explanation of priorities.

New Mitigation Actions

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

Action P-9.19

Mitigation Action	Install large, portable generator needed for backup power supply used on storm water lift station at Levee 37 Des Plaines River
Year Initiated	2019
Applicable Jurisdiction	City of Prospect Heights
Lead Agency/Organization	
Supporting Agencies/Organizations	
Applicable Goal	<ul style="list-style-type: none"> • Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. • Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards. • Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.
Applicable Objective	<ul style="list-style-type: none"> • Eliminate or minimize disruption of local government operations caused by natural hazards through all phases of emergency management. • Increase the resilience of (or protect and maintain) infrastructure and critical facilities. • Reduce natural hazard-related risks and vulnerability to potentially isolated populations within the planning area.
Potential Funding Source	N/A
Estimated Cost	N/A
Benefits (loss avoided)	N/A
Projected Completion Date	TBD
Priority and Level of Importance (Low, Medium, High)	High priority
Benefit Analysis (Low, Medium, High)	High - Project will provide an immediate reduction of risk exposure for life and property.
Cost Analysis (Low, Medium, High)	High - Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases).
Actual Completion Date	N/A

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

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

Mitigated Hazards	
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
X	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
X	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

Ongoing Mitigation Actions

The following are ongoing actions with no definitive end or that are still in progress. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

Action P-9.3

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.3	Flooding areas on Kenilworrh/McDonald Creek area	
Status Description: No	No work has been done. Funding for any work on these projects have not been approved. Project is still on the list of projects to be completed.	X
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.4

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.4	Flooding areas - Eastside Tax Increment Financing	
Status Description: Yes	Work is ongoing. Levee 37 wall just have one minor phase to complete. Other projects in the area are in the concept phase.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.9

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.9	Flooding areas in Arlington Countryside	
Status Description: Yes	City Council has approved funding for preliminary design engineering.	O
<p>Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.10

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.10	Ponding areas on Glenbrook Drive	
Status Description: No	No work has been done. Funding has not yet been approved.	X
<p>Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.11

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.11	Ponding areas on Alton Road	
Status Description: No	No work has been done. Funding has not been approved.	X
<p>Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.12

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.12	Structures in flood hazard prone areas.	
Status Description: No	No work has been done. Funding has not been approved.	X
<p>Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.13

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.13	Continue to support the countywide actions identified in this plan	
Status Description: Yes	Working with Cook County Highway Department for Willow Road flood mitigation project.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.14

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.14	Participate in the plan maintenance strategy in this plan.	
Status Description: Yes	Work is ongoing and is being lead by the Public Works department.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.15

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.15	Continue to maintain City CRS classification.	
Status Description: Yes	Work was completed by 2017 lead by the City Engineer and the City was re-certified.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.16

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.16	Maintain standing in NFIP program.	
Status Description: Yes	Work is ongoing with the City Engineer being the point of contact.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.17

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.17	Recording high water marks following high-water events.	
Status Description: Yes	This is lead by Public Works and for certain large storms, when possible, data is recorded. Documented the high-water levels during the 2 major rain events.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.18

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.18	Integrate the hazard mitigation plan into other programs.	
Status Description: Yes	The City looks to implement actions in this plan and also looks at ways to incorporate, as practical, into other City programs/plans.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Completed Mitigation Actions

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

Action P-9.1

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.1	Ponding on Eleanor Drive	
Status Description: Yes	This project has been completed. Storm sewer was installed. This should be removed from the action plan.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.2

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.2	Ponding on Lynbrook Drive	
Status Description: Yes	Project is completed. Storm sewer was installed. This should be removed from the action plan.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.5

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.5	Ponding on Drake Avenue east.	
Status Description: Yes	Project is complete. Storm sewer and re-ditching were done. Project can be removed from the action plan.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.6

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.6	Ponding on Drake Avenue west.	
Status Description: Yes	Project is complete. Storm sewer and re-ditching were done. Project can be removed from the action plan.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.7

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.7	Flooding areas on Elm - near Willow Ave	
Status Description: Yes	Project is complete. Overflow storm sewer installed on Elm. Project can be removed from the action plan.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action P-9.8

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# P-9.8	Ponding areas on South Wildwood Drive	
Status Description: Yes	Project is complete. Storm sewer and re-ditching were done. Project can be removed from the action plan.	C
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Future Needs to Better Understand Risk/Vulnerability

Flooding

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.

Earthquake Risk

Airport and numerous businesses located in high risk zone for earthquake damage. The public works building is located within this area.

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.

HAZUS-MH Risk Assessment Results

PROSPECT HEIGHTS EXISTING CONDITIONS	
2010 Population	16,256
Total Assessed Value of Structures and Contents	\$2,171,863,388
Area in 100-Year Floodplain	445.67 acres
Area in 500-Year Floodplain	521.76 acres
Number of Critical Facilities	46

HAZARD EXPOSURE IN PROSPECT HEIGHTS						
	Number Exposed		Value Exposed to Hazard		Total	% of Total Assessed Value Exposed
	Population	Buildings	Structure	Contents		
Dam Failure						
Buffalo Creek	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #2	0	0	\$0	\$0	\$0	0.00%
Touhy	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #4	0	0	\$0	\$0	\$0	0.00%
Flood						
100-Year	455	140	\$185,670,620	\$139,871,513	\$325,542,133	14.99%

500-Year	588	181	\$197,306,611	\$145,689,508	\$342,996,119	15.79%
Tornado						
100-Year	—	—	\$240,856,098	\$148,478,399	\$389,334,497	17.93%
500-Year	—	—	\$781,096,783	\$504,244,573	\$1,285,341,355	59.18%

ESTIMATED PROPERTY DAMAGE VALUES IN PROSPECT HEIGHTS				
	Estimated Damage Associated with Hazard			% of Total Assessed Value Damaged
	Building	Contents	Total	
Dam Failure				
Buffalo Creek	\$0	\$0	\$0	0.00%
U. Salt Cr. #2	\$0	\$0	\$0	0.00%
Touhy	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	\$0	\$0	\$0	0.00%
U. Salt Cr. #4	\$0	\$0	\$0	0.00%
Earthquake				
1909 Historical Event	\$5,713,117	\$1,181,940	\$6,895,057	0.32%
Flood				
10-Year	\$634,525	\$298,552	\$933,078	0.04%
100-Year	\$16,943,683	\$21,944,184	\$38,887,867	1.79%
500-Year	\$32,521,130	\$55,438,418	\$87,959,548	4.05%

Tornado				
100-Year	\$24,085,610	\$14,847,840	\$38,933,450	1.79%
500-Year	\$114,040,130	\$73,619,708	\$187,659,838	8.64%

Hazard Mapping





