Park Ridge

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: 1873

Current Population: The 2020 U.S. Census population was 39,656. The 2022 U.S. Census estimate indicated the population was 38,278.

Population Growth: The overall population has increased by 2.79% between 2018 and 2022.

Location and Description: The City of Park Ridge is a north suburb of Chicago in Cook County located 16 miles from the Chicago Loop. Park Ridge is bordered by the City of Chicago on two sides and also located three miles from O'Hare airport. Adjacent suburbs that border Park Ridge include: Des Plaines to the north and west, Norridge, and Rosemont to the south, and Niles to the east. It lies just north of the Kennedy Expressway (I-90) and just east of I-294 and the Des Plaines River.

Brief History: The City was first called Pennyville and then Brickton due to the location of a quarry in the city; and finally Park Ridge in 1873. The city started to grow in the 1920s and the famous Pickwick Theatre was built in 1928. After World War II, the city grew further, aided by the development of O'Hare Airport and Lutheran General Hospital in the 1950s.

Climate: The climate of Park Ridge 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 and 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 Park Ridge has a City Council with seven aldermen serving staggered four year terms. Each alderman is elected from one of the seven wards in the city. The City also has a mayor, and the day to day operations are run by a City Manager. This body of Government will assume the responsibility for the adoption and implementation of this plan. Park Ridge operates seven city departments including: Administrative Services, Community Preservation & Development, Finance, Fire, Police, Public Works, and Library Departments.

Development Trends: Park Ridge is primarily a bedroom community, and has seen development as the economy has grown. In the 1990s the Uptown area was developed with retail and residential developments. Additionally, as smaller homes come down, larger single family homes are built. There is a slight increase of multi-family residential buildings that are being developed near the town center. Park Ridge, Illinois is home to more than 20 medical and trade national and international associations, of which more than half own signature buildings. These include the Million Dollar Round Table, Tooling and Manufacturing Association, National Boards of Pharmacy, the Big Ten Athletic Conference, and the American Association of Nurse Anesthetists. Located just 14 miles northwest of Chicago's Loop and one and one-half miles from O'Hare International Airport, the City of Park Ridge is a high income, inner-ring suburb with desirable residential neighborhoods, excellent transportation links, and a vibrant, specialty-oriented downtown environment, anchored by the historic Pickwick Theatre. With a population over 37,000, the community is strategically located for business to take advantage of a regional population of 9 million people. Metro Chicago is one of the world's finest transportation centers, and Park Ridge provides access to O'Hare International Airport, global intermodal facilities via two interstates and the Metra's Union Pacific Northwest Commuter Rail Line.

Changes in Community Priorities: We are always trying to reduce the impact of major storms and have recently started a green alley program to reduce water runoff as well as a green parking lot in the center of our community at the library.

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	& Requirement	nts	•		
Building Code	Yes	No	No	Yes	P.R. Code – Ch. 15 - 7/21/03
Zonings	Yes	No	No	Yes	P.R. Code – Ch. 15 - 7/21/03
Subdivisions	Yes	No	No	Yes	P.R. Code – Ch. 15 - 7/21/03
Stormwater Management	Yes	No	No	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. P.R. Code-Ch. 11 - 9/12/94
Post Disaster Recovery	Yes	No	No	No	P.R. Code – Ch. 8
Real Estate Disclosure	Yes	No	No	No	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	Yes	No	No	No	P.R. Code – Ch. 6 - 2/3/03
Site Plan Review	Yes	No	No	No	P.R. Code – Ch. 15 7/21/03
Public Health and Safety	Yes	No	No	No	P.R. Code – Ch. 5
Environmental Protection	Yes	No	No	No	P.R. Code – Ch. 23 - 1/18/10
Planning Document	Planning Documents				
General or Comprehensive Plan	Yes	No	No	No	Uptown Plan, 2002-2025
Is the plan equipped to provide integration to this mitigation plan?					No
Floodplain or Basin Plan	Yes	No	No	No	P.R. Code – Ch. 6 - 2/3/03
Stormwater Plan	Yes	No	No	No	P.R. Code – Ch. 11 - 9/12/94

Capital Improvement Plan	Yes	No	No	No	
	What types of capital facilities does the plan address?				
		How oft	en is the plan revis	ed/updated?	As needed
Habitat Conservation Plan	No	No	No	No	N/A
Economic Development Plan	Yes	No	No	Yes	P.R. Code – Ch. 6 - 2/3/03
Shoreline Management Plan	No	No	No	No	N/A
Response/Recovery	Planning		•		
Comprehensive Emergency Management Plan	Yes	No	No	No	P.R. Code – Ch. 8
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	Yes	No	No	No	City EOP
Post-Disaster Recovery Plan	Yes	No	No	No	
Continuity of Operations Plan	Yes	No	No	No	Cook County EMRS
Public Health Plans	No	No	Yes	No	Cook County DPH

TABLE: FISCAL CAPABILITY	
Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
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	Yes	Public Works/ Park Ridge/ City Engineer	
and land management practices			
Engineers or professionals trained			
in building or infrastructure	Yes	Public Works and Community Development	
construction practices			

Planners or engineers with an understanding of natural hazards	Yes	Public Works/ Park Ridge/ City Engineer
Staff with training in benefit/cost analysis	Yes	Multiple people in multiple departments
Surveyors	No	
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	Part-time Emergency Preparedness Coordinator
Grant writers	Yes	Fire and Police

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE				
What department is responsible for floodplain management in your jurisdiction?	Public Works			
Who is your jurisdiction's floodplain administrator? (department/position)	PW-Director			
Are any certified floodplain managers on staff in your jurisdiction?	No			
What is the date of adoption of your flood damage prevention ordinance?	2008			
When was the most recent Community Assistance Visit or Community Assistance Contact?	02/23/2006			
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	No			
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	Yes			
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	No			
Does your jurisdiction participate in the Community Rating System (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program?	No and we are not interested			

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.

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:

6-3-1 Definitions

Substantial Damage. A building is considered substantially damaged when it sustains damage from any cause (fire, flood, earthquake, etc.), whereby the cost of fully restoring the structure would equal or exceed 50 percent of the pre-damage market value of the structure, regardless of the actual repair work performed. This term also includes structures which have incurred "repetitive loss."

Substantial Improvement.

(a) Any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either, (1) before the improvement or repair is started, or (2) if the structure has been *damaged*, and is being restored, before the *damage* occurred. This term also includes structures which have incurred "repetitive loss."

(b) For the purposes of this definition "*substantial* improvement" is considered o 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 regardless of the actual work performed.

(c) The term does not, however, include either (1) any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions or (2) any alteration of a "historic structure," provided that the alteration will not preclude the structure's continued designation as a historic structure.

6-3-3 Duties of the Enforcement Official

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

A. Determining the Floodplain Designation.

1. Check all new development sites to determine whether they are in a Special *Flood* Hazard Area (SFHA).

2. If they are in a SFHA, determine whether they are in a floodway, *flood* fringe or in a floodplain for which a detailed study has not been conducted and which drains more than one square mile.

3. Check whether the development is potentially within an extended SFHA (with a drainage area less than one square mile), indicating that the development would have adverse impacts regarding storage, conveyance, or inundation which would be the basis for the applicant being

required to delineate the floodplain and floodway and be subject to the remaining Sections of this Chapter.

B. Professional Engineer Review.

1. If the development site is within a floodway or in a floodplain for which a detailed study has not been conducted and which drains more than one square mile, the permit shall be referred to a registered professional engineer under the employ or contract of the City for review to ensure that the development meets Sections <u>6-3-6</u> or <u>6-3-7</u>.

6-3-8 Permitting Requirements Applicable to all Floodplain Areas

In addition to the requirements found in Sections <u>6-3-5</u>, <u>6-3-6</u>, and <u>6-3-7</u> for development in flood fringes, designated floodways, and SFHA or floodplains where no floodways have been identified (Zones A, AO, AH, AE, A1 A30, A99, VO, V1 30, VE, V, M, or E), the following requirements shall be met.

C. Protecting Buildings.

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

(a) Construction or placement of a new building.

(b) *Substantial* improvement to an existing building as defined in <u>6-3-1</u>, including an increase to the first floor area by more than 20%. This alteration shall be figured cumulatively beginning with any alteration which has taken place subsequent to April 1, 1990.

(c) Substantial damage to an existing building as defined in <u>6-3-1</u>.

(d) Repetitive loss to an existing building as defined in <u>6-3-1</u>.

(e) Installing a manufactured home on a new site or a new manufactured home on an existing site. This building protection requirement does not apply to returning a mobile home to the same site it lawfully occupied before it was removed to avoid *flood* damage; and

(f) Installing a travel trailer on a site for more than 180 days.

3. A residential or non residential building may be elevated in accordance with the following: (a) The building or improvements shall be elevated on crawl space, stilts, subject to damage by hydrostatic pressures of the base *flood* or 100-year frequency *flood*. The permanent openings shall be no more than one foot above existing grade, and consists of a minimum of two openings. The openings must have a total net area of not less than one square inch for every one square foot of enclosed area subject to *flooding* below the Base *Flood* Elevation.

(b) The foundation and supporting members shall be anchored and aligned in relation to *flood* flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice and floating debris.

(c) All areas below the *flood* protection elevation shall be constructed of materials resistant to *flood* damage.

i. The lowest floor (including basement) and all electrical, heating, ventilating, plumbing, and air conditioning equipment and utility meters shall be located at or above the *flood* protection elevation.

ii. Water and sewer pipes, electrical and telephone lines, submersible pumps, and other waterproofed service facilities may be located below the *flood* protection elevation.

(d) The areas below the *flood* protection elevation may only be used for the parking of vehicles, building access or storage in an area other than a basement. When the building wall encloses open space that is below the base *flood* elevation, gravity storm and sanitary sewers are required for the sanitary connections and sumps for the storm sewer connections.

(e) Manufactured homes, and travel trailers to be installed on a site for more than 180 days, shall be elevated to or above the flood protection elevation; and, shall be anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the Rules and Regulations for the Illinois Mobile Home Tie Down Act issued pursuant to 77 Ill. Adm. Code Part 870. In addition, all manufactured homes shall meet the following elevation requirements:

i. In the case of manufactured homes placed or *substantially* improved (1) outside of a manufactured home park or subdivision, (2) in a new manufactured home park or subdivision, (3) in an expansion to an existing manufactured home park or subdivision, or (4) in an existing manufactured home park or subdivision on which a manufactured home has incurred *substantial damage* from a flood, the top of the lowest floor shall be elevated to or above the flood protection elevation.

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

TABLE: COMMUNITY CLASSIFICATIONS				
	Participating?	Classification	Date Classified	
Community Rating System	No	N/A	N/A	
Building Code Effectiveness Grading Schedule	No	N/A	N/A	
Public Protection/ISO	Yes	ISO-3 (Fire)	July 2012	
StormReady	Yes	Gold (Countywide)	2014	
Tree City USA	Yes	N/A	1984	

Opportunities to Expand and Improve Capabilities

Opportunities to expand and improve capabilities include continuing to work with other bodies such as the MWRC to provide benefits to our residents.

Plan Integration

The capability assessment describes opportunities to "link" or integrate the mitigation plan into other planning mechanisms. The process and mechanism to identify opportunities to integrate the Cook

County MJ-HMP into other planning mechanisms will occur during the Annual Update Process and be reflected in the Jurisdictional Annual Report each year. Specific plan integration opportunities will include:

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

Emergency Plan Integration:

Cook County EMRS 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: 17 (16 Single Family, 1 Other-Nonresidential)

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

Federal Disasters Declared

Disaster Declaration Number	Date Declared	Event
DR-227	4/25/1967	Tornado
DR-351	9/4/1972	Flood
DR-373	4/26/1973	Flood
DR-509	6/18/1976	Severe Storm(s)
DR-643	6/30/1981	Severe Storm(s)
DR-776	10/7/1986	Flood
DR-798	8/21/1987	Flood
DR-997	7/9/1993	Flood
DR-1129	7/25/1996	Severe Storm(s)
DR-1188	9/17/1997	Severe Storm(s)
DR-1729	9/25/2007	Severe Storm(s)
DR-1800	10/3/2008	Severe Storm(s)
DR-1935	8/19/2010	Severe Storm(s)
DR-1960	3/17/2011	Snow
EM-3068	1/16/1979	Snow
EM-3134	1/8/1999	Snow
EM-3161	1/17/2001	Snow
EM-3230	9/7/2005	Hurricane – Katrina Evacuation
EM-3435	3/13/2020	Biological
DR-4116	5/10/2013	Flood
DR-4489	3/26/2020	Biological
DR-4728	8/15/2023	Severe Storm(s)
DR-4749	11/20/2023	Flood

State Disaster Declarations

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

2/16/2021	Winter Storms
2/1/2022	Winter Storms
8/1/2022	Monkeypox
(reissued monthly through	
10/28/2022)	

TABLE: NATURAL HAZARD EVENTS					
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment/ Event Narrative		
Severe Weather/Flood		9/3/2018	1.97 inches of rain		
Flash Flood	-	8/7/2018	\$100,000 in property damage.		
Severe Weather/Flood		6/22/2018	2.54 inches of rain		
Severe Weather/Flood		6/9/2018	1.77 inches of rain		
Heavy Rain	-	5/21/2018	Minor backyard and street flooding was reported in Park Ridge. Rainfall of 1.01 inches was measured in 45 minutes.		
Flood	DR-4116	4/2013	-		
Winter Storm		2/9/2010	12.9 inches of snow		
Severe Weather/Flood		5/29/2009	Numerous streets were flooded in Park Ridge. Burton and Fenton Roads were completely impassable due to flood waters.		
Hail		5/3/2012	Multiple reports of quarter size hail were received between Des Plaines and Park Ridge, including a report near the intersection of Touhy Avenue and River Road.		
Severe Weather/Flood		7/23/2011	In Park Ridge, nearly 500 basements were flooded along with numerous streets.		
Blizzard	DR-1960	2/2011	-		
Severe Weather/Wind		6/18/2010	Tree Damage		
Severe Weather/Flood/Wind		6/9/2009	Several streets were flooded and closed in Park Ridge along with flooded yards and basements. A large tree was blown down in front of the Park Ridge Public Library. Other tree limbs were blown down in Park Ridge.		
Severe Weather/Flood	DR-1800	9/13/2008	Significant flooding was also reported in Park		

			Ridge where at least 8
			people had to be rescued
			from their vehicles which
			were stuck in flood
			waters. Dozens of vehicles
			were abandoned in flood
			water
Severe Weather/Flood	DR-1729	8/20/2007	-
			Flooding was reported on
Sovere Weather/Eleed		8/30/2001	the Kennedy expressway
Severe Weather/1 tood			at Cumberland in Park
			Ridge
Severe Weather/Flood	DR-798	1987	-
Blizzard	EM-3068	1979	-

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.

Flooding: Flooding is an increasing problem in the community with 5 significant events happening just in 2018. We have been affected by urban flooding multiple times in the past during major storms. Most of these are due to our antiquated combination sewer system but we also have some low lying areas in our jurisdiction that have flooded.

Wind and Tornado: Wind gusts occur during both severe thunderstorms and winter storms and can cause damage in the community.

Winter Storm: Snowfall can get to above 10 inches, which causes a significant impact on everyday activity in the community.

Indicator	Number	Percent
Families in poverty	281	2.2%
People with disabilities	3,769	8.4%
People over 65 years	9,196	20.3%
People under 5 years	2,617	5.8%
People of color	9,042	19.9%
Black	417	0.9%
Native American	0	0%
Hispanic	3,274	7.2%
Difficulty with English	1,239	2.9%
Households with no car	873	5%
Mobile homes	0	0%

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

The community evaluated whether vulnerability, and subsequently the potential impacts, in hazardprone 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	Not Applicable
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Increased
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Wings)	Increased
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Remained the Same
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	Not Applicable
Drought	Unknown
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	Increase
Severe Weather (Extreme Heat, Lightning, Hail,	Incrosso
Fog, High Wings)	Increase
Severe Winter Weather (Ice Storms, Heavy Snow,	Linknown
Blizzards, Extreme Cold)	CHRIGWIT
Tornado	Unknown
Wildfire (Wildfire Smoke)	Unknown

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)	Increased
Severe Weather (Extreme Heat, Lightning, Hail,	Remained the Same
Fog, High Wings)	Nomained the barne
Severe Winter Weather (Ice Storms, Heavy Snow,	Remained the Same
Blizzards, Extreme Cold)	Nomanieu the barne
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

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

We have seen an increase in multi-family developments which have added to our population. We believe the added population can add to our flooding problems during major 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: HAZA	TABLE: HAZARD RISK RANKING		
Rank	Hazard Type		
1	Severe Weather		
2	Severe Winter Weather		
3	Tornado		
4	Flood		
5	Earthquake		
6	Drought		
7	Dam Failure		

New Mitigation Actions

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

Mitigation Action #21: Insta	all Pump Station							
Lead	Supporting	Estimated	Potential	Estimated	Hazard(s) Mitigated:			
Agency/Department	Agencies/	Cost:	Funding	Projected	Flood (Riverine, Urban,			
Organization:	Organizations:	Medium	Source:	Completion	Coastal/Shoreline)			
Public Works Department			General	Date:				
			Fund	Long-term				
Year Initiated		2025	2025					
Applicable Jurisdiction		City of Park Ridg	je					
Applicable Goal		1,2,4,5,6						
Applicable Objective		1,2,3,4,6,7,12,1	3					
Cost Analysis (Low, Mediu	m, High)	Medium						
Priority and Level of Import	tance (Low,	Llicela						
Medium, High)		nign						
Benefits of the Mitigation P	r oject (Loss	Medium						
Avoided or Issue Being Mitig	ated)							
		The City is trying to purchase a home in an area with severe localized urban						
Action/Implementation Pla	an and Project	flooding. If completed, we would install a pump						
Description:		station on this property to be able to pump stormwater up to a larger project by						
		the MWRD on Dempster.						
Actual Completion Date or	Ongoing Indefinite							
Project Status & Changes in Priority								
Completion status legend:		Ν						
N = New; I = In Progress Toward Completion;								
O = Ongoing Indefinitely; C = Project Completed;								
R = Want Removed from Annex; X = No Action								
Taken/Delayed								

Ongoing Mitigation Actions

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

Mitigation Action #1: Increase existing sewer capacity							
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)		
Organization:	Agencies/	\$2.5 Million;	Funding	Projected	Mitigated:		
Public Works	Organizations:		Source:	Completion	Flood, Severe		
			HMGP, BRIC,	Date:	Weather		
			FMA	Long-term			
Year Initiated	•	2014	•	-			
Applicable Jurisdiction		City of Park Ridge					
Applicable Goal		1,2,3					
Applicable Objective		1, 2, 3, 4, 7, 9, 12, 13					
Cost Analysis (Low, Medium	, High)	High					
Priority and Level of Importa	nce (Low,	Madium					
Medium, High)		Mealum					
Benefits of the Mitigation Pro	o ject (Loss	High					
Avoided or Issue Being Mitigat	ed)						
Action/Implementation Plan	and Project	We are working on cleaning and relining existing sewer lines.					
Description:							
Actual Completion Date or O	ngoing Indefinite						
Project Status & Changes in	Priority						
Completion status legend:							
N = New; I = In Progress Toward Completion;		V continuo to prioritiz	a this and we have	acon a raduation in t	he impost during		
O = Ongoing Indefinitely; C = Project		we continue to prioritize this and we have seen a reduction in the impact during					
Completed; R = Want Removed from Annex; X =		major raintail events.					
No Action Taken/Delayed							

Action P-6.2

Mitigation Action #2: Regrade some roads to eliminate traffic issues							
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)		
Organization:	Agencies/	High	Funding	Projected	Mitigated:		
Public Works	Organizations:		Source:	Completion	All		
			BRIC, HMGP	Date:			
				Long-term			
Year Initiated		2014					
Applicable Jurisdiction		City of Park Ridge					
Applicable Goal		1,2,3					
Applicable Objective 1, 2, 3, 4, 7, 9, 12, 13							
Cost Analysis (Low, Medium	, High)	High					
Priority and Level of Importa	nce (Low,	Low					
Medium, High)		LOW					
Benefits of the Mitigation Pro	oject (Loss	Medium					
Avoided or Issue Being Mitigat	ed)						
Action/Implementation Plan	and Project	As new roads are built or resurfaced, Public Works staff is regrading them to					
Description:		hold more water.					
Actual Completion Date or C	Ingoing 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							

Mitigation Action #3: Harden existing schools for tornado protection					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	Medium	Funding	Projected	Mitigated:
Private Industry	Organizations:		Source:	Completion	All
			General Fund	Date:	

				Long-term		
Year Initiated		2014				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3				
Applicable Objective		1, 2, 3, 4, 5, 6, 7, 8, 12, 13				
Cost Analysis (Low, Medium	, High)	High				
Priority and Level of Importa	nce (Low,	Modium				
Medium, High)		Medium				
Benefits of the Mitigation Project (Loss		High				
Avoided or Issue Being Mitigated)						
Action/Implementation Plan and Project		It has been discussed with the school districts, but they need to fund this and				
Description:		work on completion.				
Actual Completion Date or C	ngoing					
Indefinite						
Project Status & Changes in	Priority					
Completion status legend:		0				
N = New; I = In Progress Toward Completion;		The large grade school district is working on its buildings and holding				
O = Ongoing Indefinitely; C = Project		community meetings to gauge the possibility of a referendum.				
Completed; R = Want Removed from Annex; X =						
No Action Taken/Delayed						

Mitigation Action #4: Harden City Hall and Emergency Operations Center						
Lead Agency/Department Organization: Public Works	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: SHSP	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: All	
Year Initiated		2014				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3				
Applicable Objective		1, 2, 3, 4, 5, 6, 7, 8, 12, 13				
Cost Analysis (Low, Medium	, High)	High				

Priority and Level of Importance (Low, Medium, High)	Low
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:	0
 N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed 	Major renovations to the firehouse with the EOC are in the plans for the next few years.

Mitigation Action #5: Support retrofitting, purchasing, or relocating structures in hazard-prone areas.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	High	Funding	Projected	Mitigated:
City Administration	Organizations:		Source:	Completion	All
			FEMA Hazard	Date:	
			Mitigation	Long-term	
			Grants, BRIC,	(depending on	
			HMGP, FMA	funding)	
Year Initiated		2014			
Applicable Jurisdiction		City of Park Ridge			
Applicable Goal		1,2,3			
Applicable Objective		7,13			
Cost Analysis (Low, Medium	, High)	High			
Priority and Level of Importance (Low,		Modium			
Medium, High)		Medium			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High			

Action/Implementation Plan and Project	
Description:	
Actual Completion Date or Ongoing	
Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	0
O = Ongoing Indefinitely; C = Project	The City is trying to purchase a home in a flood prone area this year.
Completed; R = Want Removed from Annex; X =	
No Action Taken/Delayed	

Mitigation Action #6: Continue to support the countywide actions identified in this plan.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	Low	Funding	Projected	Mitigated:
City Administration	Organizations:		Source:	Completion	All
			General Fund	Date:	
				Short- and Long-	
				term	
Year Initiated		2014			
Applicable Jurisdiction		City of Park Ridge			
Applicable Goal		1,5			
Applicable Objective		All			
Cost Analysis (Low, Medium	, High)	Low			
Priority and Level of Importa	nce (Low,	High			
Medium, High)		111611			
Benefits of the Mitigation Pro	oject (Loss	Medium			
Avoided or Issue Being Mitigated)		liouum			
Action/Implementation Plan and Project					
Description:					
Actual Completion Date or Ongoing					
Indefinite					
Project Status & Changes in	Priority	0			

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	

Mitigation Action #7: Activel	y participate in the j	olan maintenance stra	tegy identified in th	is plan.		
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	Low	Funding	Projected	Mitigated:	
EMRS, City Administration	Organizations:		Source:	Completion	All	
			General Fund	Date:		
				Short-term		
Year Initiated		2014				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,5				
Applicable Objective		3,4,6				
Cost Analysis (Low, Medium	ı, High)	Low				
Priority and Level of Importance (Low,		High				
Medium, High)						
Benefits of the Mitigation Project (Loss		Medium				
Avoided or Issue Being Mitigat	ted)	healam				
Action/Implementation Plar	n and Project					
Description:						
Actual Completion Date or C	Ongoing					
Indefinite						
Project Status & Changes in Priority						
Completion status legend:						
N = New; I = In Progress Toward Completion;		0				
O = Ongoing Indefinitely; C = Project		0				
Completed; R = Want Removed from Annex; X =						
No Action Taken/Delayed						

Action P-6.8

Mitigation Action #8: Maintai	ning participation i	n Tree City.				
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	Low	Funding	Projected	Mitigated:	
City Administration	Organizations:		Source:	Completion	All	
			General Fund	Date:		
				Long-term		
Year Initiated		2014				
Applicable Jurisdiction		City of Park Ridge				
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,		Modium				
Medium, High)		Medialli				
Benefits of the Mitigation Project (Loss		Medium				
Avoided or Issue Being Mitigat	ed)	neulum				
Action/Implementation Plan	and Project					
Description:						
Actual Completion Date or C	Ingoing					
Indefinite						
Project Status & Changes in Priority						
Completion status legend:		O The City continues to prioritize this and actively plants new trees even year and				
N = New; I = In Progress Toward Completion;						
O = Ongoing Indefinitely; C = Project		maintains its existing trees on a set schedule				
Completed; R = Want Remove	ed from Annex; X =					
No Action Taken/Delayed						

Mitigation Action #9: Maintain good standing under the National Flood Insurance Program (NFIP).					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	Low	Funding	Projected	Mitigated:
City Administration	Organizations:		Source:		Flooding

		General Fund	Completion
			Short-term and
			Ongoing
Year Initiated	2014		
Applicable Jurisdiction	City of Park Ridge		
Applicable Goal	1,2,5		
Applicable Objective	4,6,9		
Cost Analysis (Low, Medium, High)	Low		
Priority and Level of Importance (Low,	High		
Medium, High)	111511		
Benefits of the Mitigation Project (Loss	Medium		
Avoided or Issue Being Mitigated)	i loalann		
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;	0		
O = Ongoing Indefinitely; C = Project			
Completed; R = Want Removed from Annex; X =			
No Action Taken/Delayed			

Mitigation Action #10: Implement a program to record high water marks following high-water events.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	Medium	Funding	Projected	Mitigated:
City Administration	Organizations:		Source:	Completion	Flooding;
			General Fund,	Date:	Severe Weather
			FEMA Public	Long Term	
			Assistance (PA)		
Year Initiated		2014			
Applicable Jurisdiction		City of Park Ridge			

Applicable Goal	1,2,5
Applicable Objective	3,6,9
Cost Analysis (Low, Medium, High)	Medium
Priority and Level of Importance (Low, Medium,	Medium
High)	
Benefits of the Mitigation Project (Loss Avoided or	Modium
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;	0
O = Ongoing Indefinitely; C = Project Completed; R =	0
Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #11: Integra redevelopment.	ate the hazard mitig	ation plan into other p	lans, programs, c	r resources that dicta	te land use or	
Lead Agency/Department Organization: City Administration	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 Park Ridge				
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:	
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 The City has a Stormwater Master Plan and the goals in this HMP are in alignment with this Master Plan.

Mitigation Action #13: Establish a Stormwater Utility Fee to raise money for potential flood mitigation strategies				es		
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	Low	Funding	Projected	Mitigated:	
City Administration	Organizations:		Source:	Completion	Flooding	
			Staff Time	Date:		
				Ongoing		
Year Initiated		2014				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3				
Applicable Objective		12, 13				
Cost Analysis (Low, Medium, High)		Low				
Priority and Level of Importance (Low,		Madium	Medium			
Medium, High)		Medium				
Benefits of the Mitigation Project (Loss		High				
Avoided or Issue Being Mitigated)						
Action/Implementation Plan and Project						
Description:						
Actual Completion Date or Ongoing Indefinite						
Project Status & Changes in Priority		0				
		It has been discussed at numerous City Council meetings.				

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

Mitigation Action #14: North	er Replacement					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	\$16.6 Million; High	Funding	Projected	Mitigated:	
Public Works	Organizations:		Source:	Completion	Flooding,	
			BRIC, HMGP,	Date:	Severe	
			FMA	Long-term	Weather	
Year Initiated		2014				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3				
Applicable Objective		1, 2, 3, 4, 7, 9, 12, 13				
Cost Analysis (Low, Medium	, High)	High				
Priority and Level of Importance (Low,		Madium				
Medium, High)		Medium				
Benefits of the Mitigation Project (Loss		High	High			
Avoided or Issue Being Mitigat	ed)	півіі				
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;		0				
R = Want Removed from Annex; X = No Action						
Taken/Delayed						

Action P-6.15

Mitigation Action #15: Count	replacement.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	\$100 Million; High	Funding	Projected	Mitigated:	
Public Works	Organizations:		Source:	Completion	Flooding,	
			HMGP, BRIC	Date:	Severe	
				Long-term	Weather	
Year Initiated		2014				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3				
Applicable Objective		1, 2, 3, 4, 7, 9, 12, 13				
Cost Analysis (Low, Medium	, High)	High				
Priority and Level of Importance (Low,		Madium				
Medium, High)		Medium				
Benefits of the Mitigation Project (Loss		High				
Avoided or Issue Being Mitigat	ed)	i ngn				
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;		0				
O = Ongoing Indefinitely; C = Project Completed;		0				
R = Want Removed from Annex; X = No Action						
Taken/Delayed						

Mitigation Action #16: Reline existing sewer lines which has allowed for a reduction in localized flooding in our municipality.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	\$600,000; Low	Funding	Projected	Mitigated:
Park Ridge Public Works	Organizations:		Source:	Completion	Flooding
				Date:	

			General Fund,	Short-term		
Year Initiated		2019	THOF, DRIC			
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3				
Applicable Objective		2, 3, 7				
Cost Analysis (Low, Medium	, High)	Low—The project cou of or can be part of ar	Ild be funded unde 1 ongoing existing p	r the existing budget rogram.	. The project is part	
Priority and Level of Importa Medium, High)	nce (Low,	High				
Benefits of the Mitigation Pro Avoided or Issue Being Mitigat	bject (Loss ed)	This should keep flooding damage to a minimum in our affected areas. High—Project will provide an immediate reduction of risk exposure for life and property.				
Action/Implementation Plan and Project Description:		We have had several that we used to see in begun relining more li damage caused by lo able to carry as much These relined sewers minimized localized f more inches.	heavy storms and h n the past. The Park inear feet of sewer calized flooding. O n storm water away have improved the looding when we an	have not seen the ext Ridge Public Works lines in an effort to m ur older sewers were from low points in ou flooding in our com re hit by heavy down	ensive flooding Department has hitigate the cracked and not ur municipality. munity and have pours of two or	
Actual Completion Date or C	Ingoing Indefinite					
Project Status & Changes in	Priority					
Completion status legend:		0				
N = New; I = In Progress Toward Completion;		The City has prioritized this and it is working to minimize the impact of major				
O = Ongoing Indefinitely; C = Project Completed;		rain events.				
R = Want Removed from Anne	x; X = No Action					
Taken/Delayed						

Action P-6.17

Mitigation Action #17: Install Green Alleys

Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	\$400,000; Medium	Funding	Projected	Mitigated:	
Park Ridge Public Works	Organizations:		Source:	Completion	Flooding	
			Special	Date:		
			Service Area	Short-term		
			charges,			
			General Fund			
Year Initiated		2019				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3,4				
Applicable Objective		13				
		Low—The project cou	ld be implemented	with existing funding l	out would require	
Cost Analysis (Low, Medium	, High)	a re-apportionment of	the budget or a bud	dget amendment, or t	he cost of the	
		project would have to	be spread over mul	tiple years.		
Priority and Level of Importance (Low,		Medium				
Medium, High)		Medialli				
		Allow for rainwater to	go into the ground a	and not in the sewers		
Benefits of the Mitigation Project (Loss		Medium—Project will have a long-term impact on the reduction of risk exposure				
Avoided or Issue Being Mitigated)		for life and property, or project will provide an immediate reduction in the risk				
		exposure for property.				
		The City of Park Ridge	recently voted to a	oprove a pilot program	n to install green	
		alleys on two unpaved alleys in our municipality. We currently have some paved				
Action/Implementation Plan and Project		alleys with sewers underneath as well as some unpaved alleys. With residents				
Description:		asking for their unpaved alleys to be paved, we are trying to use green paving				
		techniques to improve their alleys without negatively affecting the overloading				
		of sewers during inten	se rain events.			
Actual Completion Date or C	ngoing					
Indefinite						
Project Status & Changes in	Priority					
Completion status legend:		0				
N = New; I = In Progress Toward Completion;		The City has been installing green alleys at the rate of two per year with plans to				
O = Ongoing Indefinitely; C = Project		continue this in the future.				
Completed; R = Want Remove	d from Annex; X =					
No Action Taken/Delayed						

Mitigation Action #18: Implei	Mitigation Action #18: Implement Flood Control Project on Farmers and Prairie Creeks					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	\$15,000,000; High	Funding	Projected	Mitigated:	
MWRD	Organizations:		Source:	Completion	Flooding	
			MWRD	Date:		
				Long-term		
Year Initiated		2019				
Applicable Jurisdiction		City of Park Ridge				
Applicable Goal		1,2,3				
Applicable Objective		1, 2, 3, 7, 12, 13				
Cost Analysis (Low, Medium)	, High)	High				
Priority and Level of Importa	nce (Low,	Modium				
Medium, High)		Meaium				
Benefits of the Mitigation Project (Loss		High				
Avoided or Issue Being Mitigat	ed)					
		ID: FRCR-12				
		Contract: 12-056-3F,				
Action/Implementation Plan	and Project	Watershed: Lower Des Plaines				
Description:		Location: Park Ridge, Des Plaines, and Maine Township, IL				
Description.		Provides flood storage and conveyance improvements along Farmers and				
		Prairie Creeks, including channel modifications, detention expansion,				
		diversion sewer construction, and streambank stabilization.				
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 Anne	x; X = No Action					
Taken/Delayed						

Completed Actions

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

Completed Action Items
Implement Park Ridge Public Library Green Parking Lot
Began work on green parking lot at Park Ridge Public Library

Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

Additional Comments

Park Ridge is a city located on the Des Plaines River that has a major problem with urban flooding issues. While only a tiny part of our city is located in FEMA's flood plain, we have multiple areas of town that are virtually inaccessible due to road flooding. Additionally, there are hundreds of residential properties that suffer flooding in their basements due to Park Ridge's antiquated sewer system that cannot handle large amounts of rain. Efforts to fix this problem, unfortunately, will require a significant amount of money and it is difficult to find a source for this funding.

Hazard Mapping





CITY OF PARK RIDGE

PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

Mercalli Scale, Potential Shaking

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

Probabilistic seismic-hazard maps were prepared for the conterminous United States for 2014 portraying peak horizontal acceleration and horizontal spectral response acceleration for 0.2 and 1.0 second periods with probabilities of exceedance of to percent in 50 years and 2 percent in 50 years. All of the maps were prepared by combining the hazard derived from spatially snoothed historical seismicity with the hazard from fault-specific sources. The acceleration values contourced are the random horizontal component. The reference site condition is firm ock, defined as having an average shear-wave velocity of 780 m/s in the top 30 meters corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction program) site classes B and C.

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



0 0.15 0.3 0.6 0.9 1.2 Miles



CITY OF PARK RIDGE

NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

TYPE

C - Very Dense Soil, Soft Rock

D - Stiff Soil F- Site Specific Evaluation

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

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Ste Class map (NEHRP Soil Profile Type Map), a onse United States (NEHRP Soil Profile Type Map), a onse United States (NEHRP Soil Profile Type Map), a Sufficial Deposition of States (NEHRP Map) (NEHRP Map) (NEHRP Map), a USS3 Geologic Investigation Series 1.2789 Map of Sufficial Deposites and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S Fullerton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction work. Each State Geological Survey produced its own state map version (Sulking Setsmic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class mays. CUSEC State Geologists used the entire column and the difference in shear wave velocity of the soils in comparison to the bedrock which Influences much of the amplication.

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0.9

0.6

1.2 Miles



0 0.15 0.3

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.





CITY OF PARK RIDGE

LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY



very low

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