

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

**Oak Park Annex**

**FINAL**

July 2019

Prepared for:



Cook County  
Department of Homeland Security and Emergency Management  
69 W. Washington St., Suite 2600  
Chicago, Illinois 60602

Toni Preckwinkle  
President  
Cook County Board of Commissioners

William Barnes  
Executive Director  
Cook County Department of Homeland  
Security & Emergency Management

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## Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
Gaurav Gaonkar 123 Madison Street Oak Park, IL. 60302 Telephone: 708-358-5489 Email Address: <a href="mailto:ggaonkar@oak-park.us">ggaonkar@oak-park.us</a>	John Wielebnicki 201 South Blvd. Oak Park, IL. 60302 Telephone: 708-358-5700 Email Address: <a href="mailto:jwielebnicki@oak-park.us">jwielebnicki@oak-park.us</a>

## Jurisdiction Profile

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

- **Date of Incorporation:** January 25, 1902
- **Current Population:** 52,265 as of the 2018 US Census Estimate.
- **Population Growth:** It is expected the population of Oak Park will remain steady if not experience minimal growth, which was seen from 2010 to 2017 with an increase of less than 1 percent.
- **Location and Description:** The Village of Oak Park occupies 4.5 square miles on the western border of Chicago, approximately 9 miles from Lake Michigan. It is the 29th largest community in Illinois by population. The Village has easy access to Chicago via the Interstate 90, the Blue and Green L lines, Metra and public transportation.
- **Brief History:** In 1837, Joseph Kettlestrings purchased 172 acres (70 ha) of land just west of Chicago. By 1850, the Galena and Chicago Union Railroad was constructed as far as Elgin, Illinois, and passed through what would later become Oak Park. In the 1850s the land on which Oak Park sits was part of the new Chicago suburb of Cicero. The population of the area boomed during the 1870s, with Chicago residents resettling in Cicero following the Great Chicago Fire of 1871.

The Village of Oak Park was formally established in 1902, disengaging from Cicero following a referendum.

Oak Park has a history of alcohol prohibition. When the village was incorporated, no alcohol was allowed to be sold within its village limits. This law was relaxed in 1973, when restaurants and hotels were allowed to serve alcohol, and was further loosened in 2002, when select grocery stores received governmental permission to sell packaged liquor.

Oak Park attracts architecture buffs and others to view the many Frank Lloyd Wright designed homes found in the village. The largest collection of Wright-designed residential properties in the world is in Oak Park. Other attractions include Ernest Hemingway's birthplace home and his boyhood home, the Ernest Hemingway Museum, the three Oak Park homes of Tarzan creator Edgar Rice Burroughs, Wright's Unity Temple, Pleasant Home, the Oak Park-River Forest Historical Society, and the Seward Gunderson Historic District.

Oak Park is home to Oak Park and River Forest High School, which is also the public high school for the bordering village of River Forest. A comprehensive college preparatory school, Oak Park-River Forest High School has a long history of turning out alumni who have made major or notable contributions to their field of endeavor. Among these are Pulitzer Prizewinning author Ernest Hemingway, football Hall-of-Famer George Trafton, McDonald's founder Ray Kroc, city planner Walter Burley Griffin, comedian Kathy Griffin, basketball player Iman Shumpert, and the voice of iconic cartoon character Homer Simpson, Dan Castellaneta.

- **Climate:** A humid continental climate is a climatic region typified by large seasonal temperature differences, with warm to hot (and often humid) summers and cold (sometimes severely cold) winters and is commonly found throughout the American Midwest.
- **Governing Body Format:** The village government includes an elected president and an elected village board which hires a village manager to conduct the day-to-day affairs of the administration. Oak Park also has five additional governments which levy real estate taxes. These include the Oak Park Township, the high school district (which also levies from adjacent River Forest), the elementary school district, the library district, and the park district.
- **Developmental Trends:** New projects are under development throughout the community. Currently there are multiple apartment buildings under development, a couple condo and townhome developments, and addition to the ER facility at Rush Oak Park Hospital, and some other retail and office developments.

## 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
<b>Codes, Ordinances &amp; Requirements</b>					
Building Code	Yes	No	No	Yes	OPVC Chapter 7-3, adopted 4/1/2004
Zonings	Yes	No	No	No	7-3- 12/5/2013
Subdivisions	Yes	No	No	No	OPVC Chapter 23-1, adopted 2/3/2014
Stormwater Management	Yes	No	No	No	2-7
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	Yes	No	No	Yes	OPVC Chapter 2-25-4, adopted 2/3/2014
Growth Management	Yes	No	No	No	Comprehensive Plan
Site Plan Review	Yes	No	No	No	OPVC Chapter 23-1, adopted 2/3/2014
Public Health and Safety	Yes	No	No	No	OPVC Chapter 2-11, adopted 2/3/2013
Environmental Protection	No	No	No	No	
<b>Planning Documents</b>					

General or Comprehensive Plan	Yes	No	No	No	The Village of Oak Park works to maintain the character of the community by managing change through the Comprehensive Plan and business district plan recommendations. Adopted 9/4/1990
<i>Is the plan equipped to provide linkage to this mitigation plan?</i>					Yes, plan includes housing and economic development elements.
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	No	No	MWRD Detailed Watershed Plan
Capital Improvement Plan	Yes	No	No	No	The Public Works Department plans and executes a variety of capital improvement projects each year
<i>What types of capital facilities does the plan address?</i>					Water. Transportation, Drainage
<i>How often is the plan revised/updated?</i>					Annually
Habitat Conservation Plan	Yes	No	No	No	PlanItGreen
Economic Development Plan	Yes	No	No	No	Comprehensive Plan include economic development component
Shoreline Management Plan	No	No	No	No	

Community Wildfire Protection Plan	No	No	No	No	
<b>Response/Recovery Planning</b>					
Comprehensive Emergency Management Plan	Yes	Yes	Yes	No	
Threat and Hazard Identification and Risk Assessment	No	Yes	Yes	No	
Terrorism Plan	Yes	Yes	Yes	No	
Post-Disaster Recovery Plan	No	Yes	Yes	No	
Continuity of Operations Plan	No	Yes	Yes	No	
Public Health Plans	Yes	Yes	Yes	No	

<b>TABLE: FISCAL CAPABILITY</b>	
<b>Financial Resources</b>	<b>Accessible or Eligible to Use?</b>
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	Yes
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**

<b>Staff/Personnel Resources</b>	<b>Available?</b>	<b>Department/Agency/Position</b>
Planners or engineers with knowledge of land development and land management practices	Yes	Public Works/Oak Park/Director
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works/Oak Park/Village Engineer
Planners or engineers with an understanding of natural hazards	Yes	Public Works/Oak Park/Village Engineer
Staff with training in benefit/cost analysis	Yes	Public Works/Oak Park
Surveyors	Yes	Cook County
Personnel skilled or trained in GIS applications	Yes	Public Works/Oak Park/Traffic Safety
Scientist familiar with natural hazards in local area	Yes	IEMA
Emergency manager	Yes	Police/Oak Park/Emergency Preparedness and Response Manager
Grant writers	Yes	Finance

**TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE**

What department is responsible for floodplain management in your jurisdiction?	N/A
Who is your jurisdiction's floodplain administrator? (department/position)	N/A
Are any certified floodplain managers on staff in your jurisdiction?	N/A
What is the date of adoption of your flood damage prevention ordinance?	N/A
When was the most recent Community Assistance Visit or Community Assistance Contact?	N/A
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	N/A
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	N/A
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?	N/A

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?	N/A
Note: The Village of Oak Park is currently not participating in the NFIP	

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	9/9	03/28/2012
Public Protection/ISO	Yes	2	--
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	No	N/A	N/A

## 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: None
- Number of FEMA-Identified Severe Repetitive Loss Properties: None
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: None

TABLE: NATURAL HAZARD EVENTS			
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment
Illinois Severe Storms, Straight-Line Winds and Flooding	DR-4116	2013	-
Illinois Severe Winter Storm and Snowstorm	DR-1960	2011	-
Illinois Severe Storms and Flooding	DR-1935	2010	-
Illinois Severe Storms and Flooding	DR-1800	2008	-
Illinois Severe Storms and Flooding	DR-1729	2007	-
Illinois Flooding	DR-1188	1997	-
Illinois Flooding	DR-1129	1996	-
Illinois Flooding, Severe Storms	DR-997	1993	-
Illinois Severe Storms and Flooding	DR-798	1987	-
Illinois Severe Storms and Flooding	DR-776	1986	-
Illinois Severe Storms, Tornadoes, Flooding	DR-643	1981	-

Illinois Severe Storms, Tornadoes, Flooding	DR-509	1976	-
Illinois Severe Storms and Flooding	DR-373	1973	-
Illinois Severe Storms and Flooding	DR-351	1972	-
Illinois Tornadoes	DR-227	1967	-

### 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:** The Village has experienced flooding from heavy rains. In particular, the northeast part of town is most susceptible. Previously, this natural hazard has caused basement flooding and street closures throughout the Village. In 2012, heavy rain fell across portions of the Chicago Metropolitan area causing rapid filling of underpasses, ramps, and numerous viaducts. Some of the rainfall reports across the area include 4.53 inches in North Riverside.

**Extreme Heat:** As a result of the Village's many high-rise buildings and nursing homes, the citizens of Oak Park are particularly vulnerable to extreme heat.

**Lightning:** Many high-rises, cell towers. Similar to the risks posed by extreme heat events, the Village's many high-rise buildings and cell towers render the community particularly vulnerable to the impacts of lightning.

**High Winds:** Since the Village of Oak Park has over 20,000 parkway trees, downed trees could cause a total blockage of streets. In 2008, as many as 50 large tree limbs were blown down along with power lines in Oak Park. A couple entire trees were also blown down. In 2010, several tree limbs and power lines were blown down during a thunderstorm with high winds.

**Snow:** Major thoroughfares (Harlem, Roosevelt, North Ave., Austin, I-290) in the Village are vulnerable to severe snow events. Moreover, parking congestion on the streets prevents adequate snow removal.

**Blizzards:** Major thoroughfares (Harlem, Roosevelt, North Ave., Austin, I-290) in the Village are vulnerable to blizzards. Moreover, parking congestion on the streets prevents adequate snow removal. In 2007, heavy snow fell across northern Illinois on February 13th with some areas receiving over one foot of snow. In addition, wind gusts were frequently blowing at or above 35 mph, creating blizzard and whiteout conditions across many areas. Oak Park measured 9.8 inches. In 2014, heavy snow fell during the morning and afternoon of February 17th dropping 6 to 9 inches of snow across portions of east central and northeast Illinois. Some of the high snow reports include 8.1 inches near Oak Park.

**Extreme Cold:** Previously, the community has experienced frozen fire sprinkler lines. In addition to this impact, the Village's many senior-living facilities make the area particularly vulnerable to extreme cold.

**Ice Storms:** Major thoroughfares (Harlem, Roosevelt, North Ave., Austin, I-290) in the Village are vulnerable to ice storms. Moreover, parking congestion on the streets prevents adequate snow removal.

**Tornado:** Because the Village has 20,000 parkway trees, RxR/CTA/Metra, and over 50,000 residents, the community is particularly vulnerable to the impacts of tornadoes.

**Drought:** While no drought has occurred, preserving the natural landscape is essential to groundwater maintenance and beneficial in flood reduction.

## 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	Severe Winter Weather	54
3	Earthquake	32
4	Tornado	27
5	Flood	16
6	Drought	2
7	Dam Failure	0

## 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)	Included in Previous Plan?
<b>Action 04.1</b> —Identify combined sewer system defects through video inspection.							
Ongoing	Flooding, Severe Weather	6, 9, 13	Village	\$190,000; Low	Grants/Gen Rev	Ongoing	Yes
<b>Action 04.2</b> —Conduct sewer main repairs							
Ongoing	Flooding, Severe Weather	2, 9, 13	Village	High	Grants/Gen Rev	Long-term Depending upon Funding	Yes
<b>Action 04.3</b> —Identify sewer capacity constraints							
Ongoing	Flooding, Severe Weather	2, 9, 13	Village	\$55,000; Low	Grants/Gen Rev	Ongoing	Yes
<b>Action 04.4</b> —Education program to encourage downspout disconnection							
Ongoing	Flooding, Severe Weather	6, 8, 9, 13	Village	\$60,000; Low	Grants/Gen Rev	Ongoing	Yes

<b>Action 04.5</b> —Implement education program that promotes native landscapes							
Ongoing	Flooding, Severe Weather, Drought	3, 4, 6, 13	Village	\$10,000; Low	Grants/Gen Rev	Short-term	Yes
<b>Action 04.6</b> —Adopt financial assistance programs encouraging homeowners to install sewer backflow preventers							
Ongoing	Flooding, Severe Weather	6, 7, 9, 10	Village	\$57,000; Medium	Grants/Gen Rev	Ongoing	Yes
<b>Action 04.7</b> —Implement tree planting program							
Ongoing	Flooding, Severe Weather	3, 4, 10, 13	Village	\$50,000; Medium	Grants/Gen Rev	Short-term	No
<b>Action 04.8</b> —Update the Village Comprehensive Plan							
Completed	All	1, 3, 4, 6, 10	Planning	Medium	Grants/Gen Rev	Completed	No
<b>Action 04.9</b> —Consider participation in the NFIP							
Removed	Flooding	4, 6, 9	Village of Oak Park	Low	General Fund	Removed	No
<b>Action 04.10</b> —Identify relocation of structures in hazard-prone areas							
Removed	All	7, 13	Village of Oak Park	High	High FEMA Hazard Mitigation	Removed	No
<b>Action 04.11</b> —Support the county plan							
Ongoing	All	All	Village of Oak Park	Low	General Fund	Short- and long-term	No
<b>Action 04.12</b> —Actively participates in the plan maintenance							
Ongoing	All	3, 4, 6	Village of Oak Park	Low	General Fund	Short-term	No
<b>Action 04.13</b> —Update of the Village Emergency Operations Plan.							
Completed						Completed	
<b>Action 04.14</b> —Install overhead doors at all 3 fire stations. New doors will operate more quickly and be more reliable in improving/ensuring response time.							



New	Tornado, Epidemic or Pandemic, Hazardous Materials Incident	12	Public Works/ Public Health	\$75,000; Low	Capital/Bonding	08/31/19	
<b>Action O4.15</b> —Implement Green Alley Improvements and Public Works Facility Demonstration Rain Garden							
New	Flood	13	MWRD	Unknown	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	1	Medium	High	Yes	Yes	No	Medium
2	3	Medium	Medium	Yes	Yes	No	Medium
3	3	High	High	Yes	Yes	No	Medium
4	4	Medium	Low	Yes	Yes	Yes	High
5	4	Medium	Low	Yes	Yes	Yes	High
6	4	High	Low	Yes	Yes	Yes	High
7	4	High	Medium	Yes	Yes	No	High
8	5	Medium	Medium	Yes	No	No	Medium
9	3	Medium	Low	Yes	No	Yes	Medium
10	2	High	High	Yes	Yes	No	Medium
11	13	Medium	Low	Yes	No	Yes	High
12	3	Low	Low	Yes	Yes	Yes	High
13							
14	1	Medium	Low	Yes	Unknown	Unknown	High
15	1	Unknown	Unknown	Yes	Unknown	Unknown	Unknown

(a) See Chapter 1 for explanation of priorities.

### New Mitigation Actions

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

**Action O-4.14**

<b>Mitigation Action</b>	Install overhead doors at all 3 fire stations. New doors will operate more quickly and be more reliable in improving/ensuring response time.
<b>Year Initiated</b>	2019
<b>Applicable Jurisdiction</b>	Oak Park
<b>Lead Agency/Organization</b>	Public Works/ Public Health
<b>Supporting Agencies/Organizations</b>	
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects.</li> <li>Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> <li>Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events.</li> <li>Promote public understanding of and support for hazard mitigation.</li> </ul>
<b>Applicable Objective</b>	<ul style="list-style-type: none"> <li>Reduce natural hazard-related risks and vulnerability to potentially isolated populations within the planning area.</li> </ul>
<b>Potential Funding Source</b>	Capital/Bonding
<b>Estimated Cost</b>	\$75,000
<b>Benefits (loss avoided)</b>	N/A
<b>Projected Completion Date</b>	08/31/19
<b>Priority and Level of Importance (Low, Medium, High)</b>	High Priority
<b>Benefit Analysis (Low, Medium, High)</b>	Medium–Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
<b>Cost Analysis (Low, Medium, High)</b>	Low–The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
<b>Actual Completion Date</b>	

Recommended Mitigation Action/Implementation Plan and Project Description	
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
	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
X	Tornado
X	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
X	Hazardous Materials Incident

**Action O-4.15**

<b>Mitigation Action</b>	Implement the Green Alley Improvements and Public Works Facility Demonstration Rain Garden
<b>Year Initiated</b>	2019
<b>Applicable Jurisdiction</b>	Village of Oak Park
<b>Lead Agency/Organization</b>	MWRD
<b>Supporting Agencies/Organizations</b>	Village of Oak Park
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects.</li> <li>• Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> <li>• Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events and potential damage from such activities.</li> <li>• Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazard</li> </ul>
<b>Applicable Objective</b>	<ul style="list-style-type: none"> <li>• Encourage hazard mitigation measures that result in the least adverse effect on the natural environment and that use natural processes.</li> </ul>
<b>Potential Funding Source</b>	N/A
<b>Estimated Cost</b>	N/A
<b>Benefits (loss avoided)</b>	N/A
<b>Projected Completion Date</b>	TBD
<b>Priority and Level of Importance (Low, Medium, High)</b>	N/A
<b>Benefit Analysis (Low, Medium, High)</b>	N/A
<b>Cost Analysis (Low, Medium, High)</b>	N/A
<b>Actual Completion Date</b>	

Recommended Mitigation Action/Implementation Plan and Project Description	
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
	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 O-4.1**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.1	Identify combined sewer system defects through video inspection	
Status Description: Yes	This is an ongoing project	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.2**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.2	Conduct sewer main repairs	
Status Description: Yes	These are ongoing projects with work being completed each year	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		



**Action O-4.3**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.3	Identify sewer capacity constraints	
Status Description: Yes	As part of the above ongoing projects, sewer capacity constraints are being identified and schedule for repair. The Village has ongoing sewer televising and flushing programs.	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.4**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.4	Education program to encourage downspout disconnection	
Status Description: Yes	Ongoing program with Public Works and the Village Communications department working together to educate residents	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.5**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.5	Implement education program promoting native landscapes	
Status Description: Yes	On September 6, 2016, the Oak Park Village Board approved a pilot program (RainReady) with CNT to minimize impacts to flooding via rain gardens, bioswales, permeable pavements, etc. to reduce impacts. In 2017 & 2018 30 applications were approved for grants.	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.6**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.6	Adopt financial assistance programs encouraging homeowners to install sewer backflow preventers	
Status Description: Yes	Financial program remains in place with \$200,000 funded in 2018 and is budgeted for \$200,000 in 2019. This continues to be a popular program which supports approximately 60 grants per year.	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.7**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.7	Implement tree planting program	
Status Description: Yes	Trees are planted every year in Oak Park to increase water retention and canopy. In 2017, 555 trees were replanted and in 2018 it is anticipated that 604 trees will be planted.	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.11**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.11	Support the county plan	
Status Description: Yes	We continue to support the county plan as required and requested	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.12**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.12	Actively participates in plan maintenance	
Status Description: Yes	Updates information as required and fulfills reporting requests	O
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

### Completed Mitigation Actions

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

**Action O-4.8**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.8	Update the Village Comprehensive Plan	
Status Description: Yes	The plan was adopted 9/15/2014	C
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

**Action O-4.13**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# O-4.13	Update of the Village Emergency Operations Plan.	
Status Description: Yes	On September 17, 2017 the Village Board of Trustees approved a resolution approving and adopting updates to the Village of Oak Park Emergency Operations Plan and authorized its implementation. The updated plan included a "Concept of Operations", "Organization & Responsibilities", "Direction & Control", "Continuity of Government" and a detailed "Emergency Operations Checklist" specific to Public Works and the infrastructure of Oak Park	C
<b>Completion status legend:</b> <b>N</b> = New <b>O</b> = Action Ongoing toward Completion <b>C</b> = Project Completed <b>R</b> = Want Removed from Annex <b>X</b> = No Action Taken		

## Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

## Additional Comments

No additional comments at this time



## HAZUS-MH Risk Assessment Results

OAK PARK EXISTING CONDITIONS	
2010 Population	51,878
Total Assessed Value of Structures and Contents	\$9,653,761,137
Area in 100-Year Floodplain	0.00 acres
Area in 500-Year Floodplain	0.00 acres
Number of Critical Facilities	57

HAZARD EXPOSURE IN OAK PARK						
	Number Exposed		Value Exposed to Hazard			% of Total Assessed Value Exposed
	Population	Buildings	Structure	Contents	Total	
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. #2	0	0	\$0	\$0	\$0	0.00%
Flood						
100-Year	0	0	\$0	\$0	\$0	0.0%

500-Year	0	0	\$0	\$0	<b>\$0</b>	0.0%
<b>Tornado</b>						
100-Year	—	—	\$776,541,666	\$481,519,974	<b>\$1,258,061,640</b>	13.03%
500-Year	—	—	\$1,891,897,182	\$1,393,858,190	<b>\$3,285,755,372</b>	34.04%

ESTIMATED PROPERTY DAMAGE VALUES IN OAK PARK				
	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	\$42,146,488	\$10,524,314	\$52,670,803	0.55%
Flood				
10-Year	\$0	\$0	\$0	0.00%
100-Year	\$0	\$0	\$0	0.00%
500-Year	\$0	\$0	\$0	0.00%

<b>Tornado</b>				
100-Year	\$77,654,167	\$48,151,997	<b>\$125,806,164</b>	1.30%
500-Year	\$276,216,989	\$203,503,296	<b>\$479,720,284</b>	4.97%

## Hazard Mapping









