

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

**Schaumburg Annex**

**FINAL**

July 2019

Prepared for:



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## Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
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## Jurisdiction Profile

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

- **Date of Incorporation:** 1956
- **Current Population:** 73,509 as of the 2018 U.S. Census population estimate.
- **Population Growth:** Population estimates from 2010 to 2018 indicate a slight decline.
- **Location and Description:** Schaumburg is located approximately 28 miles northwest of downtown Chicago and 10 miles northwest of O'Hare International Airport. Schaumburg is bordered by Hoffman Estates and Palatine to the north, Elk Grove Village to the southeast, Roselle on the south, Hanover Park on the southwest, and Streamwood on the west. The village is 19 square miles and is comprised of commercial, industrial and residential development. The village contains the world headquarters of Motorola Solutions and one of only two IKEA stores in Illinois. It also contains Woodfield Mall which is the 10th largest mall in America.
- **Brief History:** The Village of Schaumburg was incorporated on March 7, 1956, but the first inhabitants of the area were members of the Sauk, Fox, Pottawatomie, and Kickapoo Indian tribes. The first recorded settler of Schaumburg Township was German-born Johann Sunderlage. Schaumburg Township was originally known as Sarah's Grove. This name was derived from a grove of woods that ran through the northwest portion of the Township, named for three young women whose families lived adjacent to the grove: Sarah McChesney, Sarah Frisbe, and Sarah Smith. However, the name was never made official. Until 1851, the area's official name was Township 41. At the 1850 Township meeting, residents discussed two names for the Township; Lutherville and Lutherburg. At the suggestion of a prominent landowner, Frederick Nerge, the chosen name was Schaumburg, derived from Schaumburg-Lippe, the part of Germany where many of the Township's residents originated. On March 7, 1956, Schaumburg was officially incorporated.
- **Climate:** Schaumburg averages 32 inches of rain per year and 36 inches of snowfall. The number of days with any measurable precipitation is 126. On average, there are 189 sunny days per year. The July high is around 86 degrees and the January low is 12 degrees. The comfort index, which is based on humidity during the hot months, is 47 out of 100, where higher is more comfortable.
- **Governing Body Format:** The Village of Schaumburg Governing Body consists of a Village President and six elected trustees, each of whom serve four year term of office with staggered terms. This body of Government will assume the responsibility for the adoption and implementation of this plan. The Village of Schaumburg is comprised of 11 departments which include General Government (Manager's Office), Community Development, Community Services, Cultural Services, Engineering Public Works, Finance, Fire, Human Resources, Information Technology, Police and Transportation.
- **Development Trends:** The Village of Schaumburg's first Comprehensive Plan was adopted in 1961. This plan ear marked a large portion of the community for intensive industrial, commercial and residential development and guided the initial development of the village. The

village completed a comprehensive update to the plan in 1996. The village has adopted several more detailed plans which focus on specific areas within Schaumburg to help guide future development and redevelopment. The Village of Schaumburg is focusing on redeveloping the area of the village located north of the Interstate I 90. Originally planned as primarily an office/industrial center, the North Schaumburg area is recommended to develop into a mixed use destination area with office, industrial, residential, commercial and entertainment uses. This area of Schaumburg is well interconnected in an urban park-like environment consisting of an extensive system of greenways, parks, and trails. Combined with the more intensive mix of uses planned as part of the Walden Village (WV), the North Schaumburg area will form an integrated neighborhood to create a high quality, sustainable, regional center. Since 2014, Schaumburg has had a lot of economic growth with many new businesses opening. The Village of Schaumburg was ranked No. 9 out of 100 cities across the U.S. in MONEY Magazine’s annual “Best Places to Live” list in October 2017 for offering a healthy economy, affordable homes, and a high quality of life to its residents.

## 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.

<b>TABLE: LEGAL AND REGULATORY CAPABILITY</b>					
	<b>Local Authority</b>	<b>State or Federal Prohibitions</b>	<b>Other Jurisdictional Authority</b>	<b>State Mandated</b>	<b>Comments</b>
<b>Codes, Ordinances &amp; Requirements</b>					
Building Code	Yes	No	No	Yes	In accordance with Public Act 096-0704, Illinois has adopted the IBC as its state Building Code. The Village of Schaumburg has adopted the International Building Code, 2015 Edition on 3/13/2018. Ord. 18-032.
Zonings	Yes	No	No	Yes	Ord. 95-62 6/13/95
Subdivisions	Yes	No	No	No	Ord. 04-55 4/27/04
Stormwater Management	Yes	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. Ord. 09-24 2/24/09
Post Disaster Recovery	No	No	No	No	

Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	No	No	No	No	
Site Plan Review	No	No	No	No	
Public Health and Safety	Yes	No	Yes	Yes	Cook County Board of Public Health. State Dept. of Public Health. The Village of Schaumburg has adopted the International Fire Code, 2015 ED. on JAN 23, 2018. Ord. 18-011.
Environmental Protection	No	No	No	No	
<b>Planning Documents</b>					
General or Comprehensive Plan	No	No	No	No	
<i>Is the plan equipped to provide linkage to this mitigation plan?</i>					N/A
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	Yes	Yes	Storm water impacts are managed by MWRD. The Village lies within the Upper Salt Creek watershed planning area of MWRD's comprehensive Storm Water Master Planning Program
Capital Improvement Plan	Yes	No	No	No	The Village of Schaumburg

					Capital Improvement Plan addresses all village facilities and infrastructure including fire, police, public works as well as roads, bridges, water and sewer. Five Year CIP Plan/Revised Annually.
<i>What types of capital facilities does the plan address?</i>					See above
<i>How often is the plan revised/updated?</i>					Annually
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	No	Yes	Yes	The Economic Development Commission is charged with reviewing all economic development related programs and incentives including tax incentives offered through the Cook County 6b program
Shoreline Management Plan	No	No	No	No	N/A
<b>Response/Recovery Planning</b>					
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	The Village of Schaumburg Emergency Operations Plan was updated on 6/19/15 and is currently in revision process.

Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County DHSEM Preparing THIRA
Terrorism Plan	Yes	No	Yes	Yes	Annex 'L' Village of Schaumburg EOP updated 6/19/15.
Post-Disaster Recovery Plan	No	No	No	No	
Continuity of Operations Plan	Yes*	No	Yes	No	Cook County DHSEM *In Development, EST Completion 2019
Public Health Plans	No	No	Yes	No	Cook County DPH

<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	No
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

<b>TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY</b>		
<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	Community Development/ Engr./ Public Works Departments. Village of Schaumburg
Engineers or professionals trained in building or infrastructure construction practices	Yes	Engr./ Public Works Dept./ Village of Schaumburg
Planners or engineers with an understanding of natural hazards	Yes	Engr./ Public Works Dept./ Village of Schaumburg
Staff with training in benefit/cost analysis	No	Engr./ Public Works Dept./ Village of Schaumburg
Surveyors	Yes	Outsource
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	Yes	Community Development Dept. Engineer
Emergency manager	Yes	Fire Dept./ EMA Coordinator
Grant writers	Yes	Individual Depts./ Village of Schaumburg

**TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE**

What department is responsible for floodplain management in your jurisdiction?	Engr. Public Works/ Community Development Dept.
Who is your jurisdiction’s floodplain administrator? (department/position)	Community Development Dept./ Civil Engineer
Are any certified floodplain managers of staff in your jurisdiction?	Yes
What is the date of adoption of your flood damage prevention ordinance?	10-24-2000 Ord. 00-168
When was the most recent Community Assistance Visit or Community Assistance Contact?	Have not had a Community Assistance Visit
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; Undecided

<b>TABLE: COMMUNITY CLASSIFICATIONS</b>			
	<b>Participating?</b>	<b>Classification</b>	<b>Date Classified</b>
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection/ISO	Yes	ISO Class 2	2017
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: 1
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

<b>TABLE: NATURAL HAZARD EVENTS</b>			
<b>Type of Event</b>	<b>FEMA Disaster Number (if applicable)</b>	<b>Date</b>	<b>Preliminary Damage Assessment</b>
Heavy Rain	-	5/30/2018	-
Flooding	-	5/30/2018	-
Flooding	-	7/23/2017	-
Flooding	-	7/21/2017	-
Hail	-	7/21/2017	-
Severe Weather/Straight Line Winds	-	7/21/2017	-
Hail	-	3/20/2017	-
Hail	-	7/17/2015	-
Lightning	-	6/19/2014	\$50,000 in property damage.
Severe Winter Weather	-	12/2013 - 04/2014	-
Severe Weather/Urban Flooding	DR-4116	4/26/2013	-
Blizzard	DR-1960	2/01/2011	PA \$273,995
Severe Weather/Urban Flooding	-	7/23/2011	-

Severe Weather/Urban Flooding	DR-1935	7/23/2010	-
Severe Weather/Urban Flooding	DR-1800	9/13/2008	PA \$48,470
Severe Weather/Straight Line Winds	DR-1729	8/20/2007	-
Severe Weather/Urban Flooding	DR-798	8/13/1987	-
Severe Weather/Urban Flooding	DR-776	9/21/1986	-
Snow Storm	EM-3134	1/01/1999	-
Snow Storm	EM-3068	1/16/1979	-

### 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:** In our community, the intersection of Weathersfield Way and Brain Tree Ln has been subject to repetitive flooding in heavy rains. Also, our healthcare facility is susceptible to flooding due to run-off rainwater. In order to identify similar areas subject to flooding in our community, we need to contact EPW for verification.

**Lightning:** Lightning has the potential to bury power lines subject to lightning impact (i.e. Plum Grove Rd).

## 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.

<b>TABLE: HAZARD RISK RANKING</b>		
<b>Rank</b>	<b>Hazard Type</b>	<b>Risk Rating Score (Probability x Impact)</b>
1	Severe Weather	51
2	Severe Winter Weather	51
3	Flooding (Urban)	21
4	Tornado	18
5	Earthquake	18
6	Dam Failure	7
7	Drought	3

## 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)
<b>Action S2.1</b> —Replace old CMO arch culvert with concrete box culverts on the West Branch of the DuPage River.						
Ongoing	Urban Flooding, Severe Weather	1, 2, 9, 13	Village of Schaumburg Engineering and Public Works Dept	\$1,268,000	CIP and Bridge Funds	Long-term
<b>Action S2.2</b> —Village cost sharing program to assist residents of older homes to install overhead sewers.						
Ongoing	Urban Flooding, Severe Weather	1, 2, 6, 9, 13	Village of Schaumburg Engineering and Public	\$25,000	CIP	Long-term

			Works Dept.			
<b>Action S2.3</b> —Complete study to provide compensatory storage along the West branch of the DuPage River.						
Ongoing	Urban Flooding, Severe Weather	1, 2, 9, 13	Village of Schaumburg Engineering and Public Works Dept.	High	CIP	Long-term
<b>Action S2.4</b> —Implement culvert and detention improvements recommended from Action S2.3 study.						
Ongoing	Urban Flooding, Severe Weather	1, 2, 9, 13	Village of Schaumburg Engineering and Public Works Dept.	Medium	CIP	Long-term
<b>Action S2.5</b> —Update Village of Schaumburg Emergency Operations Plan.						
Ongoing	All	1, 5	Village of Schaumburg EMA	Low	General Fund	Short-term
<b>Action S2.6</b> —Approve Emergency Action Plan Agreement with Metropolitan Water Reclamation District.						
Completed	Dam Failure	1, 5, 8	MWRD	Low	General Fund	Completed
<b>Action S2.7</b> —Conduct EOC Exercises to train the Village Incident Management Team on Disaster Events.						
Ongoing	All	1, 5, 8	Village of Schaumburg EMA	Low	General Fund	Short-term
<b>Action S2.8</b> —Maintain Village of Schaumburg's Outdoor Warning Siren System.						
Ongoing	Tornado, Severe Weather	1, 2, 5	Village of Schaumburg EMA	\$17,500; Low	General Fund	Short-term

<b>Action S2.9</b> —Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.							
Ongoing	All	7, 13	Village of Schaumburg	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)	
<b>Action S2.10</b> —Continue to support the countywide actions identified in this plan							
Ongoing	All	All	Village of Schaumburg	Low	General Fund	Short- and Long-term	
<b>Action S2.11</b> —Actively participate in the plan maintenance strategy identified in this plan.							
Ongoing	All	3, 4, 6	DHSEM, Village of Schaumburg	Low	General Fund	Short-term	
<b>Action S2.12</b> —Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.							
Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Schaumburg	Low	General Fund	Long-term	
<b>Action S2.13</b> —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements.							
Ongoing	Flooding	4, 6, 9	Village of Schaumburg	Low	General Fund	Short-term and Ongoing	
<b>Action S2.14</b> —Where feasible, implement a program to record higher water marks following high-water events.							
Ongoing	Flooding, Severe Weather	3, 6, 9	Village of Schaumburg	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term	
<b>Action S2.15</b> —Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or development.							

Ongoing	All	3, 4, 6, 10, 13	Community Development	Low	General Fund	Short-term			
<b>Action S2.16</b> —Replace the existing Outdoor Siren System (OWSS) with OWSS which have battery backup capability.									
New	Tornado, Widespread Power Outage	1, 2, 5	Emergency Management Agency	\$160,000	Local Funds	2023			
(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	4	High	Low	Yes	Yes	Yes	High
2	5	High	Low	Yes	Yes	Yes	High
3	4	High	Low	Yes	Yes	Yes	Medium
4	4	High	Low	Yes	Yes	Yes	Medium
5	2	High	Low	Yes	No	Yes	Medium
6	3	High	Low	Yes	No	Yes	Medium
7	3	High	Low	Yes	No	Yes	Medium
8	3	High	Low	Yes	No	Yes	Medium
9	2	High	High	Yes	Yes	No	Medium
10	13	Medium	Low	Yes	No	Yes	High
11	3	Medium	Low	Yes	Yes	Yes	High
12	9	Medium	Low	Yes	No	Yes	Medium
13	3	Medium	Low	Yes	No	Yes	High
14	3	Medium	Medium	Yes	Yes	No	Medium
15	5	Medium	Low	Yes	No	Yes	High
16	3	Low	Low	Yes	Yes	Yes	High

(a) See Chapter 1 for explanation of priorities.

### New Mitigation Actions

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

**Action S-2.16**

<b>Mitigation Action</b>	Replace the existing Outdoor Siren System (OWSS) with OWSS which have battery backup capability.
<b>Year Initiated</b>	2019
<b>Applicable Jurisdiction</b>	Village of Schaumburg
<b>Lead Agency/Organization</b>	Emergency Management Agency
<b>Supporting Agencies/Organizations</b>	
<b>Applicable Goal</b>	<ul style="list-style-type: none"> <li>• Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.</li> </ul>
<b>Applicable Objective</b>	<ul style="list-style-type: none"> <li>• Eliminate or minimize disruption of local government operations caused by natural hazards through all phases of emergency management.</li> <li>• Increase the resilience of (or protect and maintain) infrastructure and critical facilities.</li> <li>• Develop, improve, and protect systems that provide early warnings, emergency response communications, and evacuation procedures.</li> </ul>
<b>Potential Funding Source</b>	Local Funds
<b>Estimated Cost</b>	\$160,000
<b>Benefits (loss avoided)</b>	The benefit of the OWSS replacement program is the new OWSS will have battery backup and, as such, will be able to provide tornado warning to the community during a power failure.
<b>Projected Completion Date</b>	2023
<b>Priority and Level of Importance (Low, Medium, High)</b>	High
<b>Benefit Analysis (Low, Medium, High)</b>	Low—Long-term benefits of the project are difficult to quantify in the short term.
<b>Cost Analysis (Low, Medium, High)</b>	Low
<b>Actual Completion Date</b>	

<b>Recommended Mitigation Action/Implementation Plan and Project Description</b>	
<b>Action/Implementation Plan and Project Description:</b>	The Village of Schaumburg has nine Outdoor Warning Sirens (OWSS) which provide tornado warning to the community. The Village began an upgrade program in 2019 whereby two OWSS would be replaced each year with sirens which have BATTERY BACKUP CAPABILITY. The improvement would allow notification in the event of a power outage. The estimated cost of the remaining sirens is \$20,000 (6) with exception of a larger unit in the industrial

	area which replacement cost is \$40,000. Two sirens would be replaced each year (2020, 2021, 2022) with the industrial unit replaced in the final year (2023). The total remaining costs would be \$160,000. Local funds would be used for this program.
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Mitigation Action and Project Maintenance		
Year	Status	Comments
2019	New	
2020		
2021		
2022		
2023		

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

### Ongoing Mitigation Actions

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

**Action S-2.1**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.1	Replace old CMO arch culvert with concrete box culverts on the West Branch of the Dupage River.	
Status Description: Yes	The Village of Schaumburg has requested money in the 5 Year CIP program for rehabilitation of culverts along the West Branch of the Dupage River. Currently three of the five culverts have been rehabilitated.	O
<p align="center"><b>Completion status legend:</b>                      N = New    O = Action Ongoing toward Completion                      C = Project Completed    R = Want Removed from Annex    X = No Action Taken</p>		

**Action S-2.2**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.2	Village cost sharing program to assist residents of older homes to install overhead sewers.	
Status Description: Yes	The Village of Schaumburg's cost sharing program is ongoing. There was one participant in the past year	O
<p align="center"><b>Completion status legend:</b>                      N = New    O = Action Ongoing toward Completion                      C = Project Completed    R = Want Removed from Annex    X = No Action Taken</p>		

**Action S-2.3**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.3	Complete study to provide compensatory storage along the West branch of the DuPage River.	
Status Description: Yes	The Village of Schaumburg has requested money in the 5 Year CIP program for the design and construction of compensatory storage along the West Branch of the Dupage River, just west of Springinsguth Road	O
<p align="center"><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</p>		

**Action S-2.4**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.4	Implement culvert and detention improvements recommended from the Action S2.3 study.	
Status Description: Yes	The Village of Schaumburg has requested money in the 5 Year CIP program for the design and construction of compensatory storage along the West Branch of the Dupage River, just west of Springinsguth Road.	O
<p align="center"><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</p>		

**Action S-2.5**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.5	Update Village of Schaumburg Emergency Operations Plan.	
Status Description: Yes	The Village EOP was updated in May 2015 and submitted to the Cook County Department Homeland Security Emergency Management for review and approval on July 14, 2015. The Village is in the process of updating its current plan due for completion in FEB 2019.	O
<p align="center"><b>Completion status legend:</b>                      N = New    O = Action Ongoing toward Completion                      C = Project Completed    R = Want Removed from Annex    X = No Action Taken</p>		

**Action S-2.7**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.7	Conduct EOC Exercises to train the Village Incident Management Team on Disaster Events.	
Status Description: Yes	The Village EMA conducted a Functional Mass Vaccination Exercise in cooperation with the Cook County Dept. Public Health on June 29, 2017 and conducted a weather related (F1 tornado) Functional Exercise on July 17, 2018. A large scale exercise in conjunction with the EMI is planned for June, 2019.	O
<p align="center"><b>Completion status legend:</b>                      N = New    O = Action Ongoing toward Completion                      C = Project Completed    R = Want Removed from Annex    X = No Action Taken</p>		

**Action S-2.8**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.8	Maintain Village of Schaumburg's Outdoor Warning Siren System.	
Status Description: Yes	The Village maintains and annual maintenance contract and conducts repairs as necessary. A battery backup owss replacement program has been implemented in 2019.	O
<p align="center"><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</p>		

**Action S-2.9**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.9	Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.	
Status Description: Yes	MWRD is currently working on detailed watershed plan for the West Branch of the Dupage River to reduce and minimize the risk to the handful of structures that are adjacent to hazard prone areas.	O
<p align="center"><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</p>		

**Action S-2.10**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.10	Continue to support the countywide actions identified in this plan.	
Status Description: Yes	The Village of Schaumburg will continue to support the countywide actions which are identified in the Plan.	O
<p align="center"><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</p>		

**Action S-2.11**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.11	Actively participate in the plan maintenance identified in this plan.	
Status Description: Yes	The Village of Schaumburg will actively participate in the plan maintenance identified in this Plan.	O
<p align="center"><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</p>		

**Action S-2.12**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.12	Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.	
Status Description: Yes	The Village does not participate in the Community Rating System and Tree City Programs but is reviewing whether to participate in the StormReady program.	O
<p align="center"><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</p>		

**Action S-2.13**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.13	Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements.	
Status Description: Yes	The IL Dept. of Natural Resources conducted an audit of the Village of Schaumburg records in February, 2016 and reported that the Village records are in good standing.	O
<p align="center"><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</p>		

**Action S-2.14**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.14	Where feasible, implement a program to record higher water marks following high-water events.	
Status Description: Yes	The Village of Schaumburg documents flooding events with pictures and a report during and after high-water events.	O
<p align="center"><b>Completion status legend:</b>                      N = New    O = Action Ongoing toward Completion                      C = Project Completed    R = Want Removed from Annex    X = No Action Taken</p>		

**Action S-2.15**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.15	Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or development.	
Status Description: Yes	The Village of Schaumburg is continually monitoring for areas where the Hazard Mitigation Program can be implemented.	O
<p align="center"><b>Completion status legend:</b>                      N = New    O = Action Ongoing toward Completion                      C = Project Completed    R = Want Removed from Annex    X = No Action Taken</p>		

### Completed Mitigation Actions

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

**Action S-2.6**

<b>TABLE: ACTION PLAN MATRIX</b>		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# S-2.6	Approve Emergency Action Plan Agreement with Metropolitan Water Reclamation District.	
Status Description: Yes	The Village of Schaumburg approved the MWRD EAP on March 20, 2014	C
<p align="center"><b>Completion status legend:</b></p> <p align="center"> <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                 </p>		

## 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

SCHAUMBURG EXISTING CONDITIONS	
2010 Population	74,227
Total Assessed Value of Structures and Contents	\$10,601,739,180
Area in 100-Year Floodplain	566.65 acres
Area in 500-Year Floodplain	658.45 acres
Number of Critical Facilities	141

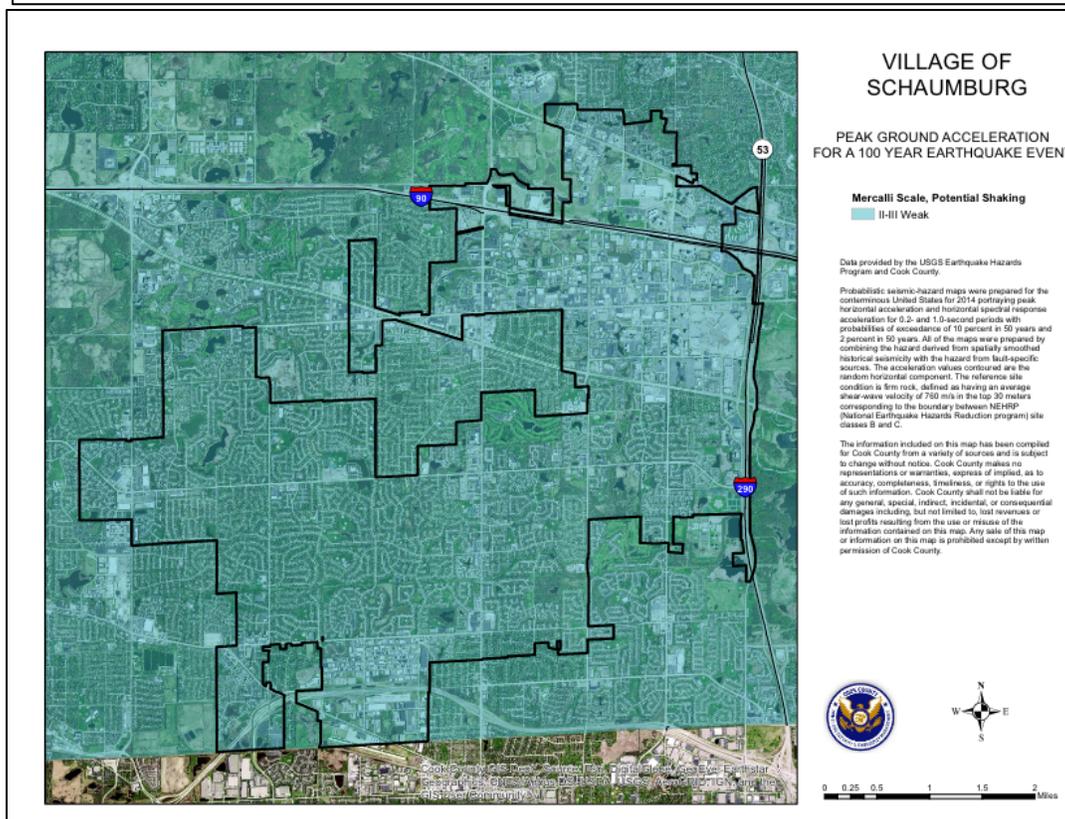
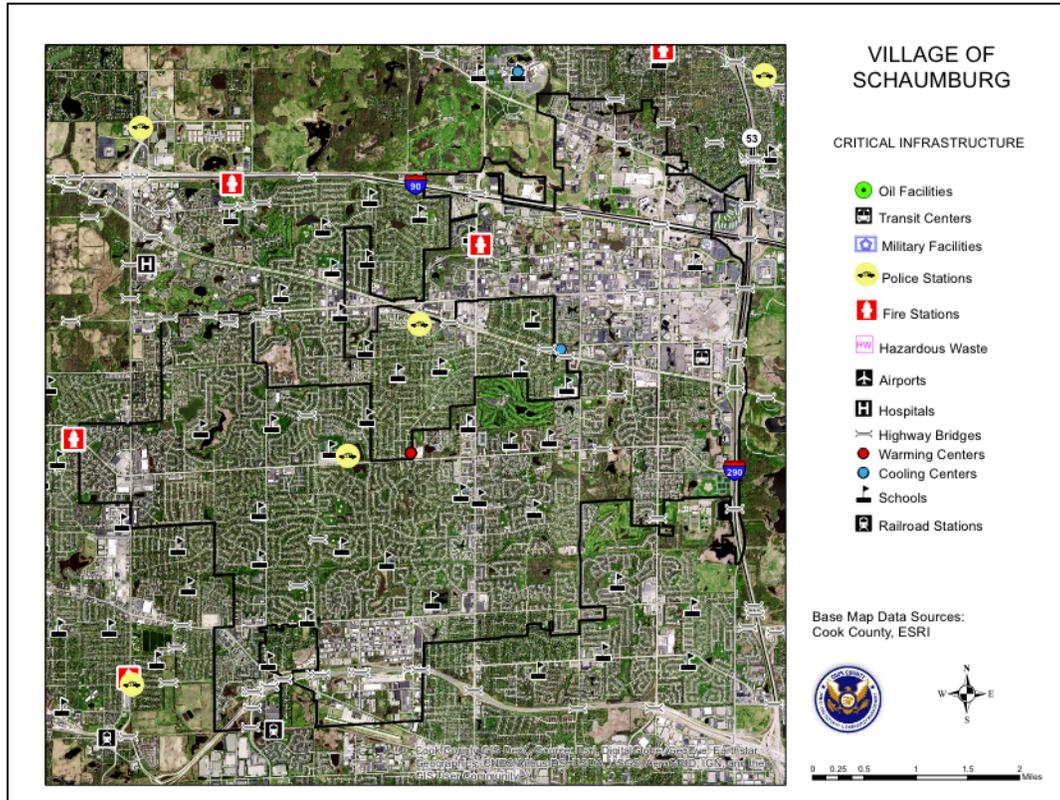
HAZARD EXPOSURE IN SCHAUMBURG						
	Number Exposed		Value Exposed to Hazard		Total	% of Total Assessed Value Exposed
	Population	Buildings	Structure	Contents		
<b>Dam Failure</b>						
Buffalo Creek	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #2	59	18	\$41,386,000	\$37,987,000	\$79,373,000	0.75%
Touhy	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	215	66	\$112,699,000	\$121,182,000	\$233,881,000	2.21%
U. Salt Cr. #4	91	28	\$58,669,000	\$54,798,000	\$113,467,000	1.07%
<b>Flood</b>						
100-Year	72	22	\$13,987,424	\$12,304,413	\$26,291,837	0.25%

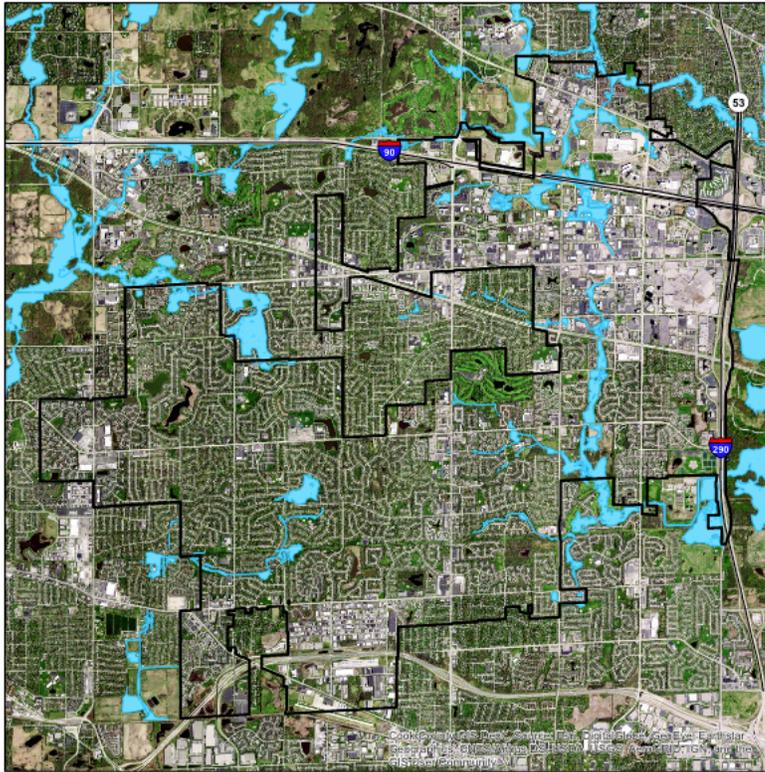
500-Year	85	26	\$41,055,893	\$39,372,882	<b>\$80,428,775</b>	0.76%
<b>Tornado</b>						
100-Year	—	—	\$971,552,047	\$662,896,796	<b>\$1,634,448,843</b>	15.42%
500-Year	—	—	\$4,189,675,568	\$2,783,989,638	<b>\$6,973,665,206</b>	65.78%

<b>ESTIMATED PROPERTY DAMAGE VALUES IN SCHAUMBURG</b>				
	Estimated Damage Associated with Hazard			% of Total Assessed Value Damaged
	Building	Contents	Total	
<b>Dam Failure</b>				
Buffalo Creek	\$0	\$0	<b>\$0</b>	0.00%
U. Salt Cr. #2	\$1,649,000	\$4,835,000	<b>\$6,484,000</b>	0.06%
Touhy	\$0	\$0	<b>\$0</b>	0.00%
U. Salt Cr. #3	\$5,003,000	\$14,353,000	<b>\$19,356,000</b>	0.18%
U. Salt Cr. #4	\$2,948,000	\$7,164,000	<b>\$10,112,000</b>	0.10%
<b>Earthquake</b>				
1909 Historical Event	\$35,795,056	\$9,505,679	<b>\$45,300,735</b>	0.43%
<b>Flood</b>				
10-Year	\$247,520	\$156,417	<b>\$403,937</b>	0.00%
100-Year	\$683,640	\$400,697	<b>\$1,084,336</b>	0.01%
500-Year	\$3,198,473	\$9,278,677	<b>\$12,477,150</b>	0.12%

<b>Tornado</b>				
100-Year	\$97,155,205	\$66,289,680	<b>\$163,444,884</b>	1.54%
500-Year	\$611,692,633	\$406,462,487	<b>\$1,018,155,120</b>	9.60%

# Hazard Mapping





### VILLAGE OF SCHAUMBURG

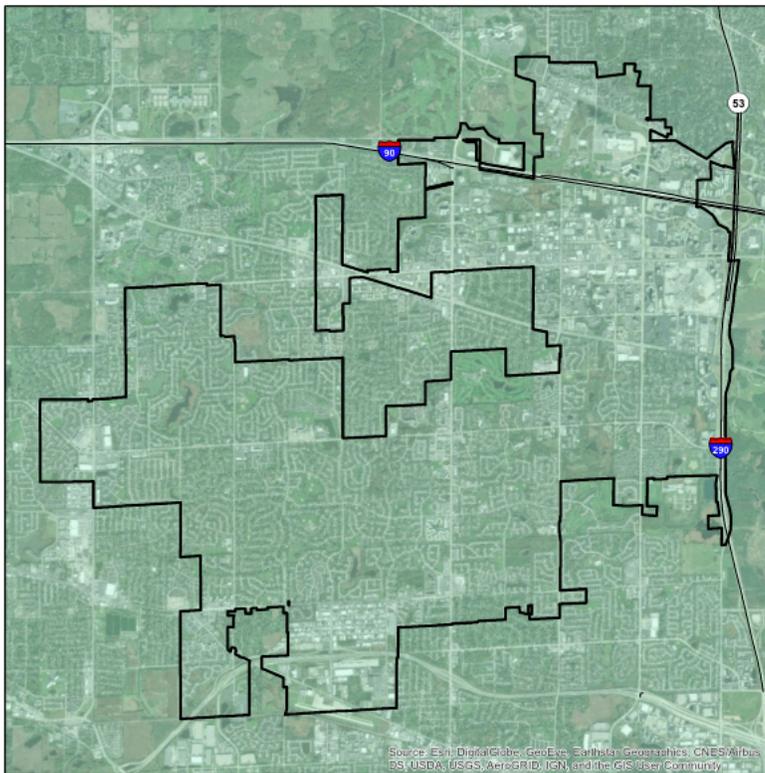
#### COOK COUNTY MWRDGC 100-YEAR INUNDATION AREA

100-year Inundation Area

MWRDGC Data provided by Metropolitan Water Reclamation District of Greater Chicago and Cook County.

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

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>.



### VILLAGE OF SCHAUMBURG

#### LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY  
 high  
 low  
 very low

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

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series I-2769 Map of Surficial Deposits and Materials in the Eastern and Central United States (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. Plummer (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 Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplification.

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



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