

Olympia Fields

Hazard Mitigation Plan Point of Contact

| Primary Point of Contact | Alternate Point of Contact |
|---|--|
| Derrick Blasingame, Chief 20040 Governors Highway Olympia Fields, IL. 60461 Telephone: 708-503-8100 / 708-238-8521 Email Address: dblasingame-fields.com | Drella Savage, Village Administrator 20040 Governors Highway Olympia Fields, IL. 60461 Telephone: 708-503-8000 / 708-878-1223 Email Address: dsavage@olympia-fields.com |

Jurisdiction Profile

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

Date of Incorporation: 1927

Current Population: The 2020 U.S. Census population was 4,718. The 2022 U.S. Census estimate indicated the population was 4,569.

Population Growth: The overall population has decreased by 8.58% between 2010 and 2022.

Location and Description: The Village of Olympia Fields is located in southwest Cook County, approximately 22 miles south of Chicago and covers approximately 2.94 square miles. Olympia Fields is home to the Olympia Fields Country Club, St. James Hospital, Rich Central high School and is easily accessible from I-57, I-80 and Metra Electric rail lines. Adjacent towns that border Olympia Fields include: Flossmoor to the north, Matteson and Park Forest to the south, Chicago Heights to the east, and Frankfort Square to the west.

Brief History: The Village of Olympia Fields was incorporated in August 1927. Prior to incorporation the land in what is now Olympia Fields was used for farming and for a “summer retreat” for wealthy Chicagoans. The summer retreat area was eventually transformed into what is now the Olympia Fields Country Club. Residential development comprised of 16 subdivisions or homeowners associations makes up the majority of property within the Village.

Climate: The climate of Olympia Fields and the Chicago area is classified as humid continental, with all four seasons distinctly represented: wet springs; hot and humid summers; pleasant autumns; and cold winters. Annual precipitation is average, and reaches its lowest points in the months of January and February, and peaks in the months of May and June. Winter proves quite variable. Seasonal snowfall in the city has ranged from 9 – 90 inches. The daily average temperature in January at Midway Airport is 24.8 °F (–4.0 °C), and temperatures often stay below freezing for several consecutive days or even weeks in January and February. Temperatures drop to or below 0 °F (–18 °C) on 5.5 nights annually at Midway and 8.2 nights at O’Hare. Spring in the Chicago area is perhaps the city’s wettest

and unpredictable season. Winter like conditions can persist well into April and even occasionally into May. Thunderstorms are especially prevalent in the spring time as the city's lakeside location makes it a center of conflicts between large volumes of warmer and colder air, triggering many kinds of severe weather. Temperatures vary tremendously in the springtime; March is the month with the greatest span between the record highs and lows. On a typical summer day, humidity is usually moderately high and temperatures ordinarily reach anywhere between 78 and 92 °F (26 and 33 °C). The extreme heat that the Chicago area is capable of experiencing during the height of the summer season can persist into the autumn season. Temperatures have reached 100 degrees high and subzero lows below -18 °C. Fall can bring heavy thunderstorms, many of which are capable of producing flooding. The average first accumulating snow occurs around Nov 19.

Governing Body Format: The Village of Olympia Fields is governed by a seven member Village Board of Trustees which includes the Village President. The Village Board of Trustees will assume the responsibility for the adoption and implementation of this plan. The Village President provides policy making and direction to the Village Administrator and the following 4 Village departments: Finance and Administration, Building and Zoning, Department of Public Works and the Police Department. Fire and EMS services are contracted out to the City of Chicago Heights which has a Class 4 ISO Rating.

Development Trends: Olympia Fields has long standing relationships with dedicated community partners focused on all sectors of life. Franciscan Health Olympia Fields is the Village's largest employer and a strong anchor to a growing medical district. The elite Olympia Fields Country Club put the Village on-the-map playing host to numerous professional and amateur tournaments including the 2003 U.S. Open, the US Amateur Championship in 2015 and the KPMG PGA Women's Championship in 2017. There are also existing businesses like Bizio's Fresh Market, Redwood Luxe Bar & Grille, Walgreens, CVS, and Walmart. Anticipated development levels for Olympia Fields are low to moderate due primarily to the current economic climate focused primarily on infill of vacant residential land and properties along with an aggressive campaign to bring commercial development into the Village.

Changes in Community Priorities: Flooding has increased. The above ground stormwater culvert and swale system has deteriorated substantially. Climate change has added to the erosion. Priorities include enhancement of stormwater management, development of comprehensive mitigation.

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 | Other Jurisdictional | State Mandated | Comments |

| | | Prohibitions | Authority | | |
|---|-----|--------------|-----------|-----|---|
| Codes, Ordinances & Requirements | | | | | |
| Building Code | Yes | No | No | Yes | Ord. 2002-12, 8/12/2002 |
| Zonings | Yes | No | No | Yes | Ord. 2002-12, 8/12/2002 |
| Subdivisions | No | No | No | No | |
| Stormwater Management | Yes | Yes | No | Yes | State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. 91-3, 3/22/1991 |
| Post Disaster Recovery | No | No | No | Yes | |
| Real Estate Disclosure | No | Yes | Yes | Yes | (65 ILCS 77/) Residential Real Property Disclosure Act. |
| Growth Management | Yes | No | No | No | 16-21, 5/24/2010 |
| Site Plan Review | Yes | No | No | No | Ord. 2011-15, 7/11/2011 |
| Public Health and Safety | No | No | No | Yes | |
| Environmental Protection | No | No | No | Yes | |
| Planning Documents | | | | | |
| General or Comprehensive Plan | No | No | No | No | |
| <i>Is the plan equipped to provide integration to this mitigation plan?</i> | | | | | No |
| Floodplain or Basin Plan | No | Yes | No | No | |
| Stormwater Plan | Yes | No | Yes | No | Regional stormwater impacts are managed by MWRD. The Village lies within the Little Calumet River, Butterfield Creek watershed planning area of MWRD's comprehensive Stormwater |

| | | | | | |
|--|----|----|-----|-----|---|
| | | | | | Master Planning Program |
| Capital Improvement Plan | No | No | No | No | |
| <i>What types of capital facilities does the plan address?</i> | | | | | N/A |
| <i>How often is the plan revised/updated?</i> | | | | | N/A |
| Habitat Conservation Plan | No | No | No | No | |
| Economic Development Plan | No | No | No | 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 | |
| Response/Recovery Planning | | | | | |
| Comprehensive Emergency Management Plan | No | No | Yes | Yes | Cook County EMRS |
| Threat and Hazard Identification and Risk Assessment | No | No | Yes | No | Cook County EMRS Preparing THIRA |
| Terrorism Plan | No | No | Yes | Yes | Cook County EMRS |
| Post-Disaster Recovery Plan | No | No | Yes | Yes | Cook County EMRS |
| Continuity of Operations Plan | No | No | Yes | 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 | No |
| Authority to Levy Taxes for Specific Purposes | No |
| 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 and land management practices | Yes | Robinson Engineering, Inc./Teska and Associates, Inc |
| Engineers or professionals trained in building or infrastructure construction practices | Yes | Building Department/Building Commissioner |
| Planners or engineers with an understanding of natural hazards | Yes | Robinson Engineering, Inc. |
| Staff with training in benefit/cost analysis | No | |
| Surveyors | Yes | Engineering/Robinson Engineering Inc. |
| Personnel skilled or trained in GIS applications | Yes | Cook County GIS Consortium |
| Scientist familiar with natural hazards in local area | No | |
| Emergency manager | Yes | Cook County EMRS |
| Grant writers | Yes | Administration/Village Administrator |

| TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE | |
|--|--|
| What department is responsible for floodplain management in your jurisdiction? | Building Department |
| Who is your jurisdiction's floodplain administrator? (department/position) | Building Department/Building Commissioner |
| Are any certified floodplain managers on staff in your jurisdiction? | Yes/Robinson Engineering, Inc. |
| What is the date of adoption of your flood damage prevention ordinance? | August 12, 2002 |
| When was the most recent Community Assistance Visit or Community Assistance Contact? | Have not received 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? | Building Department |

| | |
|---|---|
| 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? | Building Department/Building Commissioner |
|---|---|

NFIP Participation Activities

Maintaining compliance under the NFIP is an important component of flood risk reduction. All planning partners that participate in the NFIP have identified actions to maintain their compliance and good standing. Cook County entered the NFIP on April 15, 1981. Structures permitted or built in the County before then are called “pre-FIRM” structures, and structures built afterwards are called “post-FIRM.” The insurance rate is different for the two types of structures. The effective date for the current countywide FIRM is August 19, 2008. This map is a DFIRM (digital flood insurance rate map). The communities in Cook County that participate in the NFIP are shown in **Table: NFIP Participating Communities in Cook County** in **Volume I** of the Cook County MJ-HMP.

The NFIP makes federally-backed flood insurance available to homeowners, renters, and business owners in participating communities. The communities in Cook County that participate in the NFIP and their "Policies in Force," "Total Coverage," and "Total Written Premiums" are shown in **Table: Cook County Flood Insurance Policies** in **Volume I** of the Cook County MJ-HMP.

The following are NFIP-related activities completed by our community:

- Our staff provide the following services: permit reviews, GIS, inspections, engineering capability.
- My community's Floodplain Administrator is a Certified Floodplain Manager (CFM).
- My community teaches property owners or other stakeholders about the importance of flood insurance through public outreach events, workshops, and/or seminars.
- Our community enforces local floodplain regulations and monitors compliance.
- Our floodplain development regulations meet or exceed Federal Emergency Management Agency (FEMA) or State minimum requirements.

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:

Sec. 8-17 Definitions and Terms

Substantial damage means a building 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 fifty (50) percent of the pre-damage market value of the structure, regardless of the actual repair work performed. The total cost of repair includes structural and finish materials, and

labor. A substantially damaged building which is repaired shall comply with the National Flood Insurance Program ("NFIP") requirements for new construction.

Substantial improvement means any repair, reconstruction, rehabilitation, addition, or improvement of a structure, the cost of which equals or exceeds fifty (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 from any source and is being restored before the damage occurred.

For the purpose of this definition, "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of a building commences, whether or not that alteration affects the external dimensions of the structure. The term does not, however, include any project for improvement of a structure to comply with any existing state or local health, sanitary, or safety code specifications which are solely necessary to assure (1) 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."

Sec. 8-73 Protection by Elevating

A residential or nonresidential building may be elevated in accordance with the following:

(5) Manufactured homes 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 Illinois Administrative Code 870. In addition, all manufactured homes shall meet the following elevation requirements:

- a. 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 flood shall be elevated to or above flood protection elevation.
- b. 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 thirty-six (36) inches in height above grade and supported by reinforced piers or other foundations of equivalent strength, whichever is less.

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

| TABLE: COMMUNITY CLASSIFICATIONS | | | |
|---|----------------|----------------|---------------------------------|
| | Participating? | Classification | Date Classified |
| Community Rating System | No | N/A | N/A |
| Building Code Effectiveness Grading Schedule | Yes | Unknown | N/A |
| Public Protection/ISO | Yes | ISO Class 4 | Chicago Heights Fire Department |

| | | | |
|---------------|-----|-------------------|---|
| | | | provides Fire and EMS to Olympia Fields |
| StormReady | Yes | Gold (Countywide) | 2014 |
| Tree City USA | Yes | N/A | 2007 |

Opportunities to Expand and Improve Capabilities

Opportunities to expand and improve capabilities include:

- Grant writers
- Funding local match for mitigation grants, access to grant writers, improve GIS capabilities, including SCADA, improving and rewriting code of Ordinance to update and add applicable parts, such as floodplain regulations.

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

Federal Disasters Declared

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

State Disaster Declarations

| Date Declared | Event |
|---------------|--|
| 7/26/2010 | Severe Storms, High Winds, Torrential Rain |
| 1/31/2011 | Winter Weather |

| | |
|---|--|
| 4/25/2011 5/25/2011 | High Wind, Tornadoes, Torrential Rain |
| 4/18/2013 4/20/2013 4/21/2013 4/25/2013 4/30/2013 | Severe Storms, Heavy Rainfall, Flooding, Straight-line Winds |
| 1/6/2014 | Heavy Snowfall, Frigid Temperatures |
| 7/12/2017 7/14/2017 | Thunderstorms, Heavy Rainfall, Flooding |
| 1/29/2019 | Winter Storm |
| 2/6/2020 | Severe Storms |
| 3/12/2020 – present (reissued monthly) | COVID-19 |
| 2/16/2021 | Winter Storms |
| 2/1/2022 | Winter Storms |
| 8/1/2022 (reissued monthly through 10/28/2022) | Monkeypox |

| TABLE: NATURAL HAZARD EVENTS | | | |
|------------------------------|--------------------------------------|-----------|--|
| Type of Event | FEMA Disaster Number (if applicable) | Date | Preliminary Damage Assessment/ Event Narrative |
| Hail Storm | - | 2/28/2017 | - |
| Severe Storms | DR-4116 | 4/26/2013 | Property Damage |
| Severe Storms/Wind | - | 8/4/2012 | Property Damage |
| Excessive Heat | - | 7/4/2012 | - |
| Hail Storm | - | 6/4/2011 | Property Damage |
| Severe Winter Storm | DR-1960 / EM-3161 | 1/31/2011 | - |
| Severe Storms/Flooding | DR-1935 | 7/19/2010 | Property Damage Flooded roadways and viaducts |
| Tornado/High Winds | - | 6/23/2010 | Property Damage Flooded roadways and viaducts |
| Severe Storms/Flooding | DR-1800 | 9/13/2008 | Property Damage Flooded roadways and viaducts |
| Tornado/High Winds | - | 6/7/2008 | Property Damage Flooded roadways and viaducts |
| Severe Storms/Flooding | DR-1729 | 8/20/2007 | Property Damage Flooded roadways and viaducts |
| Hail Storm | - | 6/1/2007 | Property Damage |
| Severe Winter Storm | - | 3/2/2007 | - |
| Extreme Cold/Wind | - | 2/1/2007 | - |
| Flash Flood | - | 8/28/2006 | Flooded roadways and viaducts |
| Severe Storms/Wind | - | 10/2/2005 | Property Damage |
| Hail Storm | - | 4/19/1996 | Property Damage |
| Severe Storms/Flooding | DR-997 | 4/13/1993 | Property Damage Flooded roadways and viaducts |
| Severe Storms/Flooding | DR-798 | 8/13/1987 | Property Damage Flooded roadways and viaducts |

| | | | |
|------------------------|--------|-----------|---|
| Severe Storms/Flooding | DR-776 | 9/21/1986 | Property Damage Flooded roadways and viaducts |
| Severe Storms/Tornado | DR-643 | 6/30/1981 | Property Damage Flooded roadways and viaducts |

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.

Drought: Annexed Olympia Fields Country Club in April 2023; severe drought would negatively impact and could close their business.

Earthquake: An earthquake would negatively impact the Clock Tower on the golf course, other older structures throughout the Village of Olympia Fields dating as far back as 1915. This includes the train station/viaduct, the Franciscan Health Medical District and Hospital, the Sunrise Senior Living Facility, two water towers, the reservoir, and 12 lift stations.

Tornado: All of Cook County is at risk of high winds and tornadoes. The Village maintains the municipality's tornado warning system and verifies Southcom's systems are functional. Critical facilities including Franciscan Health Olympia Fields Medical District (clinics) and the water reservoir do not have secondary backup power in the event of a tornado.

Severe Weather: Multiple large trees blown down. A semi trailer was blown over at 83rd and the Tri-state Tollway. Our sizeable senior population, many of whom live in the Tradition HOA and Sunrise Senior Living Facility, are susceptible to extreme heat and cold. The Rich Central Stem High School and Arcadia Elementary School require operational saferooms. The substantial tree canopies are highly vulnerable to lightning storms and high winds.

Hail: Penny size hail has been reported at Interstate 57 and Route 30.

Flooding: February 20, 2018 - Governors Highway -- a main artery connecting Matteson to Richton Park and Olympia Fields -- closed between 214th and 219th. Water under one viaduct rose to 10 feet. Olympia Fields has a dual water storm management system (above ground and underground). More than 50% of the Village (Arcadia, Graymoor, Hawthorne Hills, Olympia Fields East, Suburban Woods, and Vienna Woods Homeowners Associations/subdivisions) require above ground culvert and swale mitigation. These areas (streets, yards, businesses, and homes) experience extreme flooding and erosion due to undersized, damaged, or destroyed culverts and swales. The Village of Olympia Fields needs an engineering design plan and study to facilitate its flood drainage and diversion projects. Homeowners and businesses need more education and outreach regarding how to mitigate and alleviate ongoing flood issues. Parts of the Village are in the Floodplain.

Wildfire (Wildfire Smoke): The Iron Oaks Environmental Center, Golf courses, substantial tree canopies, and forestry station define the character of the Village of Olympia Fields. If destroyed by wildfire and smoke hazards, the Village's assets, including its property values, business economy, and beauty and charm, would be vulnerable, adversely affected, and substantially depreciated.

| Indicator | Number | Percent |
|--------------------------|--------|---------|
| Families in poverty | 123 | 3.6% |
| People with disabilities | 1,339 | 9% |
| People over 65 years | 3,373 | 22.4% |
| People under 5 years | 809 | 5.4% |
| People of color | 12,097 | 80.5% |
| Black | 10,903 | 72.5% |

| | | |
|-------------------------|-----|------|
| Native American | 0 | 0% |
| Hispanic | 530 | 3.5% |
| Difficulty with English | 119 | 0.8% |
| Households with no car | 389 | 6.9% |
| 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 hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics were taken into consideration when assessing development trends.

Jurisdiction-Specific Climate Change Vulnerability and Impacts

The table below outlines if climate change, as assessed by the local planning team, has increased or decreased the municipality's vulnerability/exposure, and thereby the potential impacts, to each natural hazard over the past five (5) years (**Current Vulnerability**), and the effect of climate change in the future probability of occurrence and impacts (**Future Vulnerability**) from each natural hazard.

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

| Hazard | Vulnerability |
|---|----------------|
| Current Vulnerability | |
| Dam and Levee Failure | Not Applicable |
| Drought | Increased |
| Earthquake | Increased |
| Flood (Riverine, Urban, Shoreline) | Increased |
| Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) | Increased |
| Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold) | Increased |
| Tornado | Increased |
| Wildfire (Wildfire Smoke) | Increased |

| Hazard | Vulnerability |
|---|----------------|
| Future Vulnerability | |
| Dam and Levee Failure | Not Applicable |
| Drought | Increase |
| Earthquake | Increase |
| Flood (Riverine, Urban, Shoreline) | Increase |
| Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) | Increase |
| Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold) | Increase |

| | |
|---------------------------|----------|
| Tornado | Increase |
| Wildfire (Wildfire Smoke) | Increase |

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 | Not Applicable |
| Drought | Increase |
| Earthquake | Increase |
| Flood (Riverine, Urban, Shoreline) | Increase |
| Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) | Increase |
| Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold) | Increase |
| Tornado | Increase |
| Wildfire (Wildfire Smoke) | Increase |

| Hazard | Vulnerability |
|---|----------------|
| Future Vulnerability | |
| Dam and Levee Failure | Not Applicable |
| Drought | Increased |
| Earthquake | Increased |
| Flood (Riverine, Urban, Shoreline) | Increased |
| Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) | Increased |
| Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold) | Increased |
| Tornado | Increased |
| Wildfire (Wildfire Smoke) | Increased |

Our community anticipates that the following future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan:

- The Franciscan Health Olympia Fields Medical District has expanded its clinics and populations and become the largest employer.
- A new veterinary clinic.
- Businesses that rehabilitated older structures.
- Olympia Fields Country Club that was annexed into the Village.
- Senior homes in Traditions subdivision.

Socially vulnerable populations increase as aging and disabled adults move into the Village. Economic development is increasing our commercial base. Franciscan Health Olympia Fields increasing clinic and service base. We anticipate historic sites receiving landmark status in

centennial year (from 1927). All assets are vulnerable to flooding throughout the Village, damage resulting from tornado, earthquake, fire, and severe weather.

Hazard Risk Ranking

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

| TABLE: HAZARD RISK RANKING | |
|-----------------------------------|-----------------------|
| Rank | Hazard Type |
| 1 | Severe Weather |
| 2 | 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.

Action O-5.12

| Mitigation Action #12: Eliminate Pavement and Basement Flooding | | | | | |
|---|---|--------------------------------|--|---|--|
| Lead Agency/Department Organization: Administration | Supporting Agencies/Organizations: Metropolitan Water Reclamation District (MWRD) | Estimated Cost: High | Potential Funding Source: General Funds Local or State Special Taxes State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program MWRD and IDNR | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | 2,4,6,7,8,9,10,11,12,13 | | | |

| | |
|--|--|
| Cost Analysis (Low, Medium, High) | High |
| Priority and Level of Importance (Low, Medium, High) | High |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | High |
| Action/Implementation Plan and Project Description: | Eliminate pavement and basement flooding caused by severe weather storm events and stormwater restriction where the cul-de-sac is at a depression causing water as high as 2 feet deep to infiltrate homes and enter garages. Maximize the capacity of existing storm sewers, consider regional storage and private property improvements, and shore up land use planning. Upsize conveyance system. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N |

Action O-5.13

| Mitigation Action #13: Eliminate Pavement and Structure Flooding Project | | | | | |
|---|---|--------------------------------|--|--|---|
| Lead Agency/Department Organization: Administration | Supporting Agencies/ Organizations: Metropolitan Water Reclamation District (MWRD) FEMA / BRIC / MWRD / IDNR | Estimated Cost: High | Potential Funding Source: General Funds Local or State Special Taxes State Special Funds Hazard Mitigation Grant | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: Dam and Levee Failure, Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) |

| | | | | | |
|---|--|---------------------------|---|--|--|
| | | | Program (HMGP) Hazard Mitigation Grant Program (HMGP) - Post Fire Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program Community Development Block Grant (CDBG) MWRD and IDNR | | |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | 2,4,3,6,7,8,9,10,11,12,13 | | | |
| Cost Analysis (Low, Medium, High) | | High | | | |
| Priority and Level of Importance (Low, Medium, High) | | High | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | High | | | |

| | |
|--|---|
| Action/Implementation Plan and Project Description: | Eliminate pavement and structure flooding in Graymoor subdivision, maximize existing infrastructure opportunities, including increasing storage in wet bottom ponds through a plan for removal of accumulated sediments, restoration of pond function, creating landscape islands, restoring stormwater swales, dredging ponds and stabilizing the streams. Remove, repair, and replace stormwater swales and culverts. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N |

Action O-5.14

| Mitigation Action #14: Eliminate Ponding of Stormwater Project | | | | | |
|---|---|----------------------------------|--|---|--|
| Lead Agency/Department Organization: Administration | Supporting Agencies/Organizations: Metropolitan Water Reclamation District (MWRD) | Estimated Cost: Medium | Potential Funding Source: General Funds Local or State Special Taxes State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds), Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) |

| | | | | | |
|--|--|--|--|--|--|
| | | | (BRIC) Flood Mitigation Assistance (FMA) Program | | |
| Year Initiated | 2025-2026 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,2,3,4,5,6 | | | | |
| Applicable Objective | 1,2,3,4,8,9,10,12,13 | | | | |
| Cost Analysis (Low, Medium, High) | Medium | | | | |
| Priority and Level of Importance (Low, Medium, High) | Medium | | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | Medium | | | | |
| Action/Implementation Plan and Project Description: | Eliminate ponding of stormwater and reduce flooding frequency on streets with major traffic and impediment to traffic flow due to overland flow at busy intersection of Vollmer Road and Crawford Avenue. Improve inlet spacing and implement improvements to the collection system. | | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N | | | | |

Action O-5.15

| Mitigation Action #15: Eliminate 100-year Roadway Flooding Project | | | | | |
|---|---|--------------------------------|--|--|---|
| Lead Agency/Department Organization: Administration / Cook County | Supporting Agencies/ Organizations: Village of Olympia Fields | Estimated Cost: High | Potential Funding Source: Building Resilient | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: Earthquake, Flood (Riverine, Urban, Coastal/Shoreline) |

| | | | | | |
|--|--|--|---|--|---|
| | FEMA / BRIC / MWRD / IDNR | | Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program Cook County State of Illinois | | Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold), Tornado |
| Year Initiated | 2027 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,2,3,5 | | | | |
| Applicable Objective | 1,2,3,4,5,6,7,8,9,10,11,12 | | | | |
| Cost Analysis (Low, Medium, High) | High | | | | |
| Priority and Level of Importance (Low, Medium, High) | Medium | | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | Medium | | | | |
| Action/Implementation Plan and Project Description: | Eliminate 100-year roadway flooding at the railroad viaduct along Vollmer Road east of Kedzie Avenue to avoid excessive water causing road closures. Replace ditches with curb and gutter and oversized storm sewers for inline detention. Widen roadway and install lift station. Work with Cook County as Vollmer Road is under the county jurisdiction. | | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N | | | | |

Action O-5.16

| Mitigation Action #16: Eliminate Roadway Flooding with Storm Water Restriction Project | | | | | |
|--|---|--------------------------------|--|---|---|
| Lead Agency/Department Organization: Administration / Cook County | Supporting Agencies/Organizations: Village of Olympia Fields FEMA / BRIC / MWRD / IDNR | Estimated Cost: High | Potential Funding Source: General Funds Local or State Special Taxes Private/Non-Profit Funds State Special Funds Hazard Mitigation Grant Program (HMGP) Hazard Mitigation Grant Program (HMGP) - Post Fire Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: Earthquake, Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds), Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold), Tornado |

| | | | | | |
|--|--|--|---|--|--|
| | | | (FMA) Program Community Development Block Grant (CDBG) | | |
| Year Initiated | 2025-2026 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,2,3,4 | | | | |
| Applicable Objective | All | | | | |
| Cost Analysis (Low, Medium, High) | High | | | | |
| Priority and Level of Importance (Low, Medium, High) | High | | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | High | | | | |
| Action/Implementation Plan and Project Description: | Eliminate roadway flooding with storm water restriction, inadequate inlet capacity, and ponding at the intersection of Crawford (state road) and the 203rd Street (township road) intersection at the location of the critical facility of St. James Fransiscan Hospital. Implement Program and Policy improvements, add green infrastructure, optimize existing flood control and maximize capacity of existing storm sewers. Develop alternative plan for addition of inlet, enforcement of erosion control measures, and addition of roadside swales to collect sediment prior to entrance into the roadway drainage system. Make Ordinance changes, create program to ensure catch basins and inlets in areas subject to clogging are regularly inspected and cleaned and conduct public events to inform and educate residents and businesses on importance of policy, process, fees for violations, improvement to reduction in mitigation, and improvement in planning and development of future land uses. | | | | |
| 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; | N | | | | |

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

Action O-5.17

| Mitigation Action #17: Eliminate Flooding Issues Project | | | | | |
|---|--|--|--|--|--|
| Lead Agency/Department Organization: Administration | Supporting Agencies/ Organizations: Village of Olympia Fields and Olympia Fields Park District | Estimated Cost: Medium | Potential Funding Source: General Funds Flood Mitigation Assistance (FMA) Program | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds), Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) |
| Year Initiated | | 2025-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,4,5 | | | |
| Applicable Objective | | 1,2,3,4,8,12,13 | | | |
| Cost Analysis (Low, Medium, High) | | Medium | | | |
| Priority and Level of Importance (Low, Medium, High) | | Medium | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | Medium | | | |
| Action/Implementation Plan and Project Description: | | Eliminate flooding issues, such as basement flooding, public areas flooding, storm sewer flow restriction, and ponding at Sparta Court off Brookwood Drive in Olympia Fields. Rebuild, reshore, replace, or expand inadequate detention basin that serves Sergeant Means Park. Replace undersized PVC storm sewer/s. Implement system that informs residents on hazards of filling ditches and poor maintenance of swales and culverts. Increase detention pond expansion and path additions at park and integrate green infrastructure for capture and reuse of stormwater. | | | |

| | |
|---|---|
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N |

Action O-5.18

| Mitigation Action #18: Create Village Wide Policy / Program | | | | | |
|---|--|-------------------------------|--|--|--|
| Lead Agency/Department Organization: Administration | Supporting Agencies/ Organizations: Village of Olympia Fields and Olympia Fields Park District | Estimated Cost: Low | Potential Funding Source: General Funds Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds), Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | 2,3,4,5,8,12,13 | | | |
| Cost Analysis (Low, Medium, High) | | Low | | | |
| Priority and Level of Importance (Low, Medium, High) | | Low | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | Low | | | |

| | |
|--|---|
| Action/Implementation Plan and Project Description: | Create a village-wide policy or program to ensure the catch basins and inlets in areas subject to clogging are regularly inspected and cleaned at critical intersections, business corridors, and particularly viaducts such as the railroad viaduct east of the intersection of Lincoln Highway and Olympian Way with goal of eliminating roadway flooding in the viaduct. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N |

Action O-5.19

| Mitigation Action #19: Extreme Weather Project | | | | | |
|---|---|-------------------------------|--|--|------------------------------------|
| Lead Agency/Department Organization: Administration | Supporting Agencies/Organizations: Village of Olympia Fields and Olympia Fields Park District | Estimated Cost: Low | Potential Funding Source: General Funds Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: All |
| Year Initiated | 2025-2026 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,2,3,4,5,6 | | | | |
| Applicable Objective | 1,2,4,6,7,8,10,12,13 | | | | |
| Cost Analysis (Low, Medium, High) | Low | | | | |
| Priority and Level of Importance (Low, Medium, High) | Low | | | | |

| | |
|--|---|
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | Low |
| Action/Implementation Plan and Project Description: | Initiate Village-wide plans to manage extreme weather conditions. Implement policies to coordinate placement of at-risk populations in shelter facilities. Develop and strengthen zoning ordinances and building code regulations to stabilize methodologies to better mitigate flood hazards, including raising roads/pavements and increasing culvert and swale drainage by enforcing regular inspections and maintenance. Implement educational programming/training for 15 HOAs throughout the Village. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N |

Action O-5.20

| Mitigation Action #20: Develop Public Education Programs and Implement Outreach Events | | | | | |
|---|---|----------------------------------|--|--|------------------------------------|
| Lead Agency/Department Organization: Administration | Supporting Agencies/Organizations: Village of Olympia Fields and Olympia Fields Park District | Estimated Cost: Medium | Potential Funding Source: General Funds Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: All |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 2,3,4,5,6 | | | |

| | |
|--|---|
| Applicable Objective | 1,2,3,4,5,6,8,10,12,13 |
| Cost Analysis (Low, Medium, High) | Medium |
| Priority and Level of Importance (Low, Medium, High) | Medium |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | Medium |
| Action/Implementation Plan and Project Description: | Develop public education programs and implement outreach events: To build emergency preparedness; provide family disaster plans; distribute emergency supply kits; provide information on measures for flood mitigation and preservation of life and property; and offer instruction on above-ground drainage systems to reduce vulnerabilities and lessen susceptibility to hazards. Develop a multifaceted public awareness campaign for increasing citizen engagement and enrollment in jurisdictional emergency notification system. Create resident handbooks and enhanced website content for hazard mitigation planning. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N |

Action O-5.21

| Mitigation Action #21: Conduct Feasibility Study | | | | | |
|---|--|-------------------------------|--|--|---|
| Lead Agency/Department Organization: Administration | Supporting Agencies/ Organizations: Village of Olympia Fields and Olympia Fields Park District | Estimated Cost: Low | Potential Funding Source: General Funds Building Resilient Infrastructure and | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: Drought, Earthquake, Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning, Hail, Fog, |

| | | | | | |
|--|--|---|---|--|---|
| | | | Communities (BRIC) Flood Mitigation Assistance (FMA) Program | | High Winds), Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold), Tornado, Wildfire (Wildfire Smoke) |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,6 | | | |
| Applicable Objective | | 3,6,8,12,13 | | | |
| Cost Analysis (Low, Medium, High) | | Low | | | |
| Priority and Level of Importance (Low, Medium, High) | | Low | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | Low | | | |
| Action/Implementation Plan and Project Description: | | Conduct feasibility study and survey for inventory and assessment of all trees and forestry in Olympia Fields (we are a tree city). Develop a forestry program of tree trimming and maintenance for preventing limb breakage, safeguarding utility lines, and creating disaster resistant landscaping in public right of ways, and fire prevention. Conduct feasibility study and survey of schools to assess structural and non-structural hazards and produce guidance documents to determine hazardous conditions. | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | | N | | | |

Action O-5.22

| Mitigation Action #22: Improvement of Drainage Systems Project | | | | | |
|--|--|--|--|--|---|
| Lead Agency/Department Organization: Administration | Supporting Agencies/ Organizations: Village of Olympia Fields and Olympia Fields Park District | Estimated Cost: Low | Potential Funding Source: General Funds Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: Dam and Levee Failure, Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds), Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | 1,2,4,6,7,9,12,13 | | | |
| 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: | | Implement Village-wide programs and policies for improving swale and culvert drainage systems by upgrading, rebuilding, repairing, or replacing bioswales for flood mitigation of severely impacted areas, structures, and property. | | | |
| 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; | | N | | | |

| | |
|--|--|
| R = Want Removed from Annex; X = No Action Taken/Delayed | |
|--|--|

Action O-5.23

| Mitigation Action #23: Install SCADA Technology | | | | | |
|---|---|----------------------------------|--|---|---|
| Lead Agency/Department Organization: Administration | Supporting Agencies/ Organizations: Village of Olympia Fields and Olympia Fields Park District FEMA / BRIC / MWRD / IDNR | Estimated Cost: Medium | Potential Funding Source: General Funds Local or State Special Taxes Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program MWRD IDNR | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: Earthquake, Flood (Riverine, Urban, Coastal/Shoreline), Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds), Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold), Tornado |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,5 | | | |
| Applicable Objective | | 1,2,3,4,5,6,8,12,13 | | | |
| Cost Analysis (Low, Medium, High) | | Medium | | | |
| Priority and Level of Importance (Low, Medium, High) | | Medium | | | |

| | |
|--|--|
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | Medium |
| Action/Implementation Plan and Project Description: | Implement Village-wide programs and policies for improving swale and culvert drainage systems by upgrading, rebuilding, repairing, or replacing bioswales for flood mitigation of severely impacted areas, structures, and property. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N |

Action O-5.24

| Mitigation Action #24: Create Public Transportation Routes to Access Critical Medical Facilities | | | | | |
|---|---|--------------------------------|---|---|------------------------------------|
| Lead Agency/Department Organization: Administration | Supporting Agencies/ Organizations: Village of Olympia Fields and Olympia Fields Park District Franciscan Hospital System, RTA | Estimated Cost: High | Potential Funding Source: General Funds Local or State Special Taxes Private/Non-Profit Funds State Special Funds Building Resilient Infrastructure and Communities (BRIC) Community Development Block Grant (CDBG) | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: All |

| | | | | | |
|--|--|--|---|--|--|
| | | | FEMA Public Assistance (PA) Private medical associations and foundations | | |
| Year Initiated | 2024-2026 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,2,3,4,5,6 | | | | |
| Applicable Objective | 1,2,5,6,7,8,10,11,12,13 | | | | |
| Cost Analysis (Low, Medium, High) | High | | | | |
| Priority and Level of Importance (Low, Medium, High) | High | | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | High | | | | |
| Action/Implementation Plan and Project Description: | Create public transportation routes to access critical medical facilities for underserved areas and populations, reduce risk of serious harm/death among vulnerable populations impacted by natural hazards. Build system redundancies for essential public utilities. | | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | N | | | | |

Ongoing Mitigation Actions

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

Action O-5.1

| Mitigation Action #1: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment. | | | | | |
|--|--|---|---|--|------------------------------------|
| Lead Agency/Department Organization: Village Administration | Supporting Agencies/ Organizations: | Estimated Cost: Medium | Potential Funding Source: General Fund Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: All |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | 3,4,6,10,13 | | | |
| Cost Analysis (Low, Medium, High) | | Medium | | | |
| 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: | | Ongoing revision and update of all building codes to comply with 2012 edition of International Code Council and zoning codes. | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | | O | | | |

Action O-5.2

| Mitigation Action #2: Strive to capture perishable data (i.e. high water marks, preliminary damage estimates, damage photos). | | | | | |
|--|--|--|---|--|------------------------------------|
| Lead Agency/Department Organization: Village Administration | Supporting Agencies/ Organizations: | Estimated Cost: Medium | Potential Funding Source: General Fund; Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA) | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: All |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | 3,6,9 | | | |
| Cost Analysis (Low, Medium, High) | | Medium | | | |
| Priority and Level of Importance (Low, Medium, High) | | High | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | High | | | |
| Action/Implementation Plan and Project Description: | | | | | |
| Actual Completion Date or Ongoing Indefinite | | Any perishable data is being filed accordingly for future reference. | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | | O | | | |

Action O-5.3

| Mitigation Action #3: Continue to support the countywide actions identified in this plan. | | | | | |
|---|--|-------------------------------|--|--|------------------------------------|
| Lead Agency/Department Organization: Village Administration | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: General Fund Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program Community Development Block Grant (CDBG) FEMA Public Assistance (PA) | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: All |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | All | | | |
| Cost Analysis (Low, Medium, High) | | Low | | | |
| Priority and Level of Importance (Low, Medium, High) | | Medium | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | Medium | | | |
| Action/Implementation Plan and Project Description: | | Ongoing support of this plan. | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority | | O | | | |

| | |
|--|--|
| 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 | |
|--|--|

Action O-5.4

| Mitigation Action #4: Maintain the municipality's tornado warning system and verify Southcom's systems are functional. | | | | | |
|---|---|-------------------------------|---|--|---|
| Lead Agency/Department Organization: Village Administration | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: General Fund Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program | Estimated Projected Completion Date: Ongoing | Hazard(s) Mitigated: Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds), Tornado |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,2,3,4,5,6 | | | | |
| Applicable Objective | 1,5 | | | | |
| 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: | Weekly tests are performed on this system. Public education regarding the warning system and coordinated activation in one SouthCom member municipality will alert all member municipalities. | | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |

| | |
|---|---|
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | O |
|---|---|

Action O-5.5

| Mitigation Action #5: Update Olympia Fields's emergency operations center. | | | | | |
|---|--|----------------------------------|---|--|------------------------------------|
| Lead Agency/Department Organization: Village Administration | Supporting Agencies/ Organizations: | Estimated Cost: Medium | Potential Funding Source: General Fund, EOC Grants | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: All |
| Year Initiated | 2014 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,4,5 | | | | |
| Applicable Objective | 1,2,5 | | | | |
| Cost Analysis (Low, Medium, High) | Medium | | | | |
| Priority and Level of Importance (Low, Medium, High) | Medium | | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | High | | | | |
| Action/Implementation Plan and Project Description: | Funding mechanism not identified. Revision of existing Emergency Operations Plan. Ongoing training for identified potential threats including petroleum pipelines within jurisdiction. | | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | O | | | | |

Action O-5.6

| Mitigation Action #6: Actively participate in the plan maintenance strategy identified in this plan. | | | | | |
|--|--|-------------------------------|---|---|------------------------------------|
| Lead Agency/Department Organization: EMRS, Village Administration | Supporting Agencies/ Organizations: | Estimated Cost: Low | Potential Funding Source: General Fund Building Resilient Infrastructure and Communities (BRIC) FEMA Public Assistance (PA) | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: All |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,5 | | | |
| Applicable Objective | | 3,4,6 | | | |
| Cost Analysis (Low, Medium, High) | | Low | | | |
| Priority and Level of Importance (Low, Medium, High) | | High | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | Medium | | | |
| Action/Implementation Plan and Project Description: | | Ongoing support of this plan. | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | | O | | | |

Action O-5.7

| Mitigation Action #7: Where appropriate, support retrofitting, purchasing, or relocating structures in hazard-prone hazards, including floodplain areas where culverts and bioswales are severely and negatively impacted. | | | | | |
|--|---|--|---|---|------------------------------------|
| Lead Agency/Department Organization: Village Administration | Supporting Agencies/Organizations: | Estimated Cost: High | Potential Funding Source: General Fund Private/Non-Profit Funds State Special Funds Hazard Mitigation Grant Program (HMGP) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA) | Estimated Projected Completion Date: Long-term (depending on funding) | Hazard(s) Mitigated: All |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,3,4,5,6 | | | |
| Applicable Objective | | 7,12,13 | | | |
| Cost Analysis (Low, Medium, High) | | High | | | |
| Priority and Level of Importance (Low, Medium, High) | | High | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | High | | | |
| Action/Implementation Plan and Project Description: | | Dependent upon FEMA Hazard Mitigation Grants | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority | | O | | | |

| | |
|--|--|
| 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 | |
|--|--|

Action O-5.8

| Mitigation Action #: Maintain good standing under the National Flood Insurance Program. | | | | | |
|--|---|-------------------------------|--|---|---|
| Lead Agency/Department Organization: Village Administration | Supporting Agencies/Organizations: EMRS | Estimated Cost: Low | Potential Funding Source: General Fund Private/Non-Profit Funds Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA) | Estimated Projected Completion Date: Short-term and Ongoing | Hazard(s) Mitigated: Flooding |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 2,4,6 | | | |
| Applicable Objective | | 4,6,9 | | | |
| Cost Analysis (Low, Medium, High) | | Low | | | |
| Priority and Level of Importance (Low, Medium, High) | | Low | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | Low | | | |

| | |
|--|---|
| Action/Implementation Plan and Project Description: | Ongoing effort to maintain good standing. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | O |

Action O-5.9

| Mitigation Action #9: Consider the development and implementation of a Capital Improvements Program (CIP) to increase the Village's capability for mitigation actions. | | | | | |
|---|---|--------------------------------|--|--|------------------------------------|
| Lead Agency/Department Organization: Public Works | Supporting Agencies/Organizations: | Estimated Cost: High | Potential Funding Source: General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program CIP Component of General Fund (if implemented) | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: All |
| Year Initiated | | 2014 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |

| | |
|--|-----------------------------------|
| Applicable Goal | 1 2,3,5,6 |
| Applicable Objective | 1,2,7 |
| Cost Analysis (Low, Medium, High) | High |
| Priority and Level of Importance (Low, Medium, High) | High |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | High |
| Action/Implementation Plan and Project Description: | Funding mechanism not identified. |
| Actual Completion Date or Ongoing Indefinite | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | O |

Action O-5.10

| Mitigation Action #11: Drainage improvements to Graymoor subdivision and Butterfield Creek | | | | | |
|---|---|--------------------------------|---|---|---|
| Lead Agency/Department Organization: Administration | Supporting Agencies/Organizations: MWRD | Estimated Cost: High | Potential Funding Source: General Fund Local or State Special Taxes Private/Non-Profit Funds State Special Funds Building Resilient Infrastructure and | Estimated Projected Completion Date: Short-term | Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline) |

| | | | | | |
|--|--|---|--|--|--|
| | | | Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA) Grants (MWRD) federal and local funds | | |
| Year Initiated | | 2024-2026 | | | |
| Applicable Jurisdiction | | Village of Olympia Fields | | | |
| Applicable Goal | | 1,2,4,5 | | | |
| Applicable Objective | | 1,2,13 | | | |
| Cost Analysis (Low, Medium, High) | | High | | | |
| Priority and Level of Importance (Low, Medium, High) | | High | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | | Medium | | | |
| Action/Implementation Plan and Project Description: | | Drainage improvements to Butterfield Creek and Graymoor Homeowners Association to manage stormwater and become integrated in south regional masterplan. | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | | O | | | |

Action O-5.11

Mitigation Action #11: Reduce flooding in Greymoore

| | | | | | |
|--|--|--------------------------------|---|--|---|
| Lead Agency/Department Organization: Chief | Supporting Agencies/ Organizations: | Estimated Cost: High | Potential Funding Source: BRIC, HMGP, FMA | Estimated Projected Completion Date: Long-term | Hazard(s) Mitigated: Flooding |
| Year Initiated | 2023 | | | | |
| Applicable Jurisdiction | Village of Olympia Fields | | | | |
| Applicable Goal | 1,2,3,4,5,6 | | | | |
| Applicable Objective | | | | | |
| Cost Analysis (Low, Medium, High) | High- Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases). | | | | |
| Priority and Level of Importance (Low, Medium, High) | High | | | | |
| Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated) | High—Project will provide an immediate reduction of risk exposure for life and property. | | | | |
| Action/Implementation Plan and Project Description: | | | | | |
| Actual Completion Date or Ongoing Indefinite | | | | | |
| Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed | O | | | | |

Completed Actions

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

| |
|-------------------------------|
| Completed Action Items |
| No completed actions |

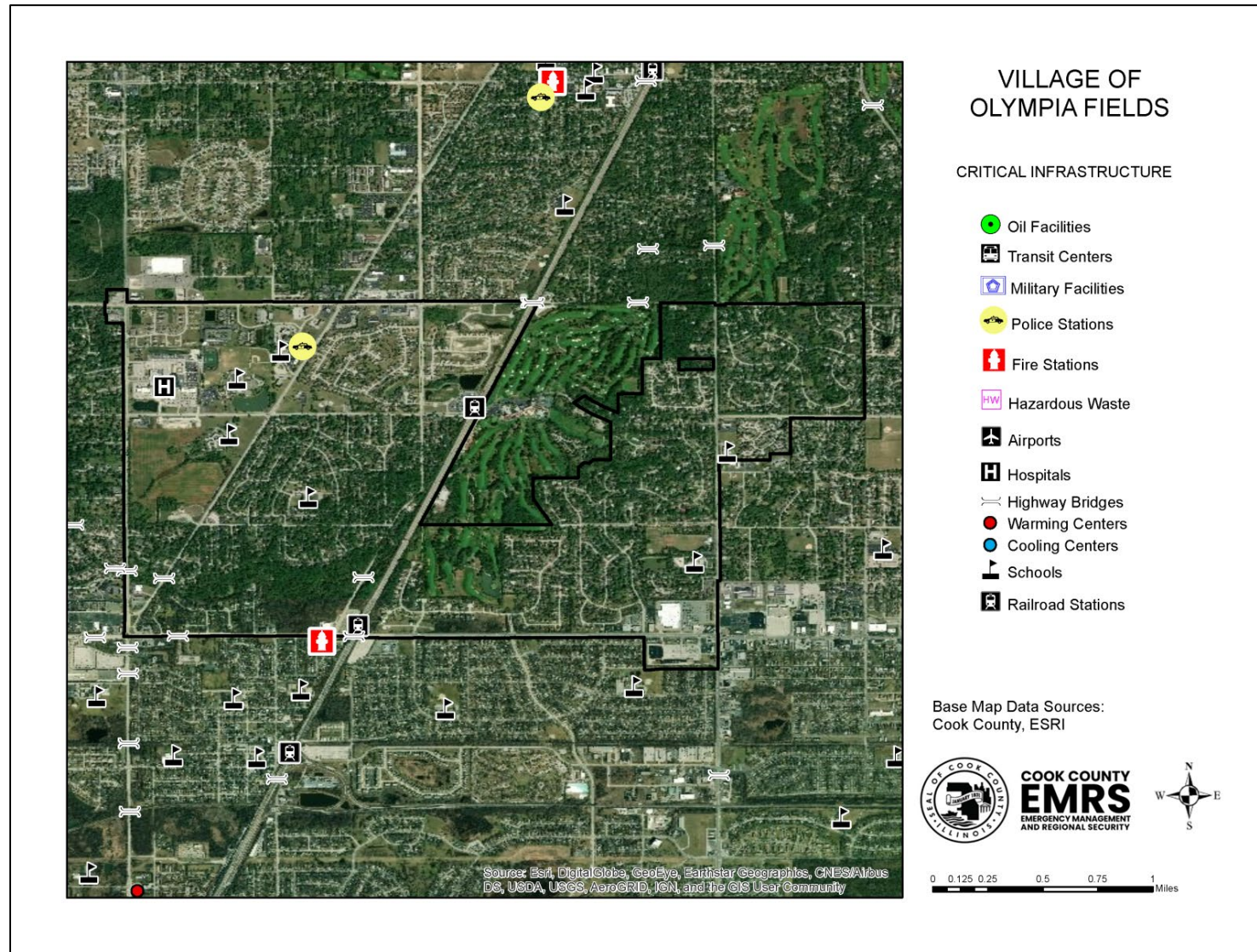
Future Needs to Better Understand Risk/Vulnerability

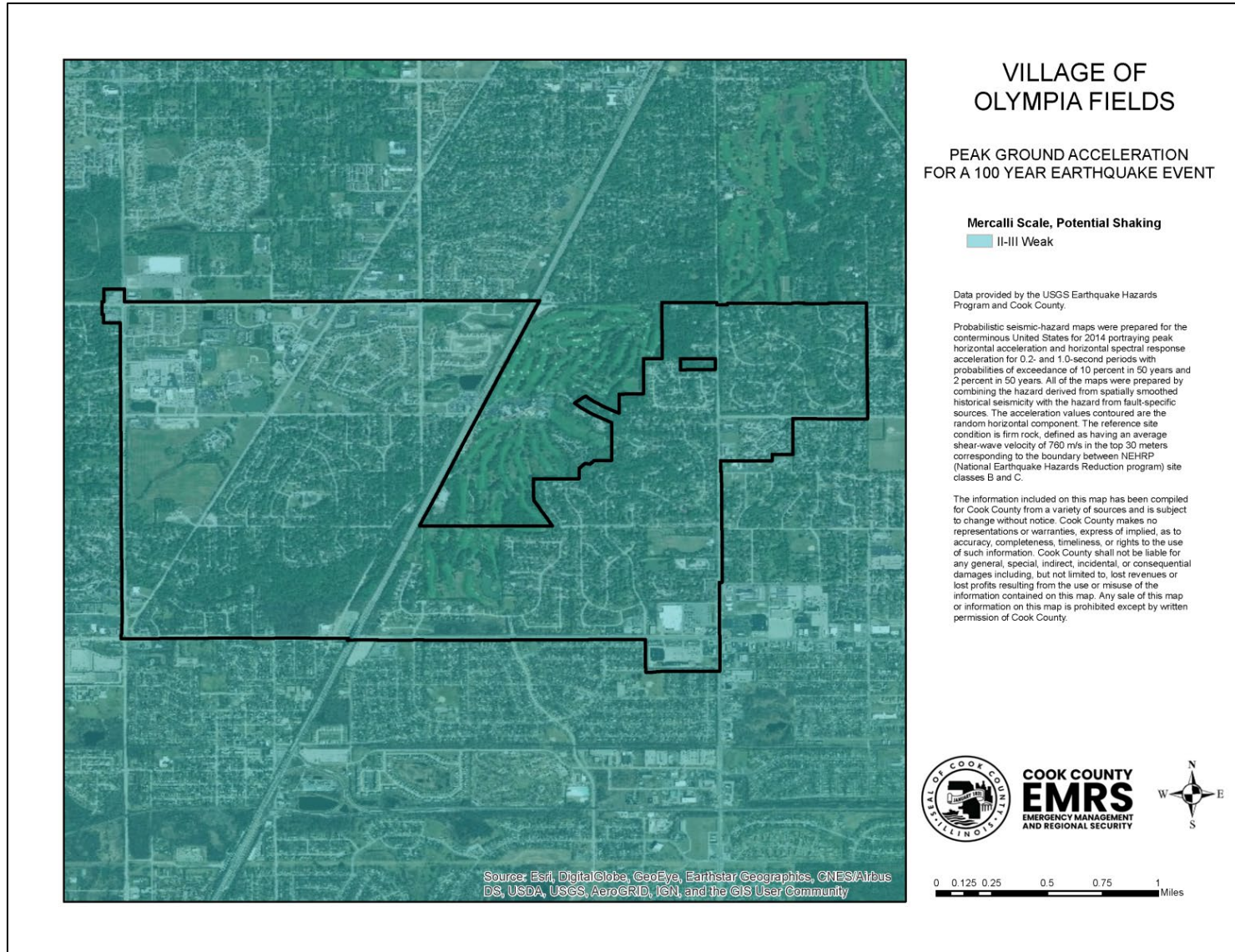
No needs have been identified at this time.

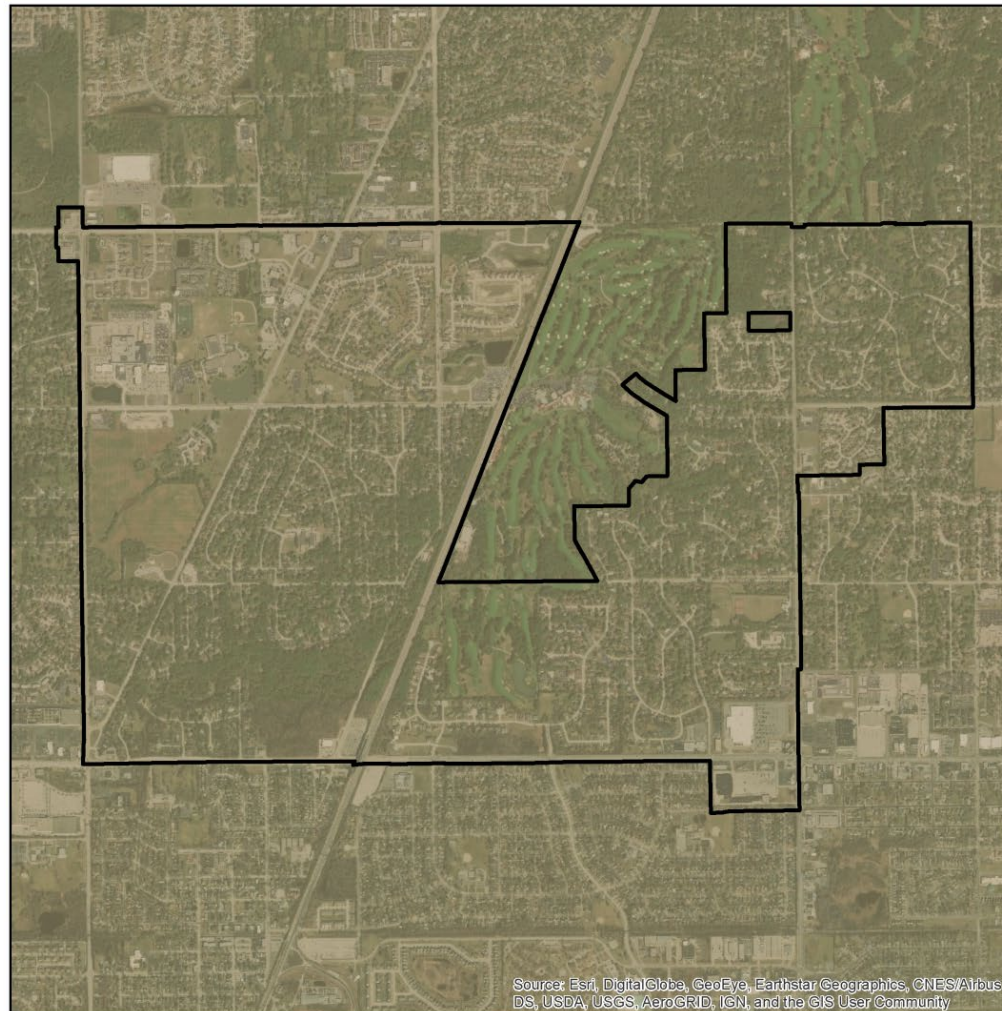
Additional Comments

No additional comments at this time.

Hazard Mapping







Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

VILLAGE OF OLYMPIA FIELDS

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 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 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 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.

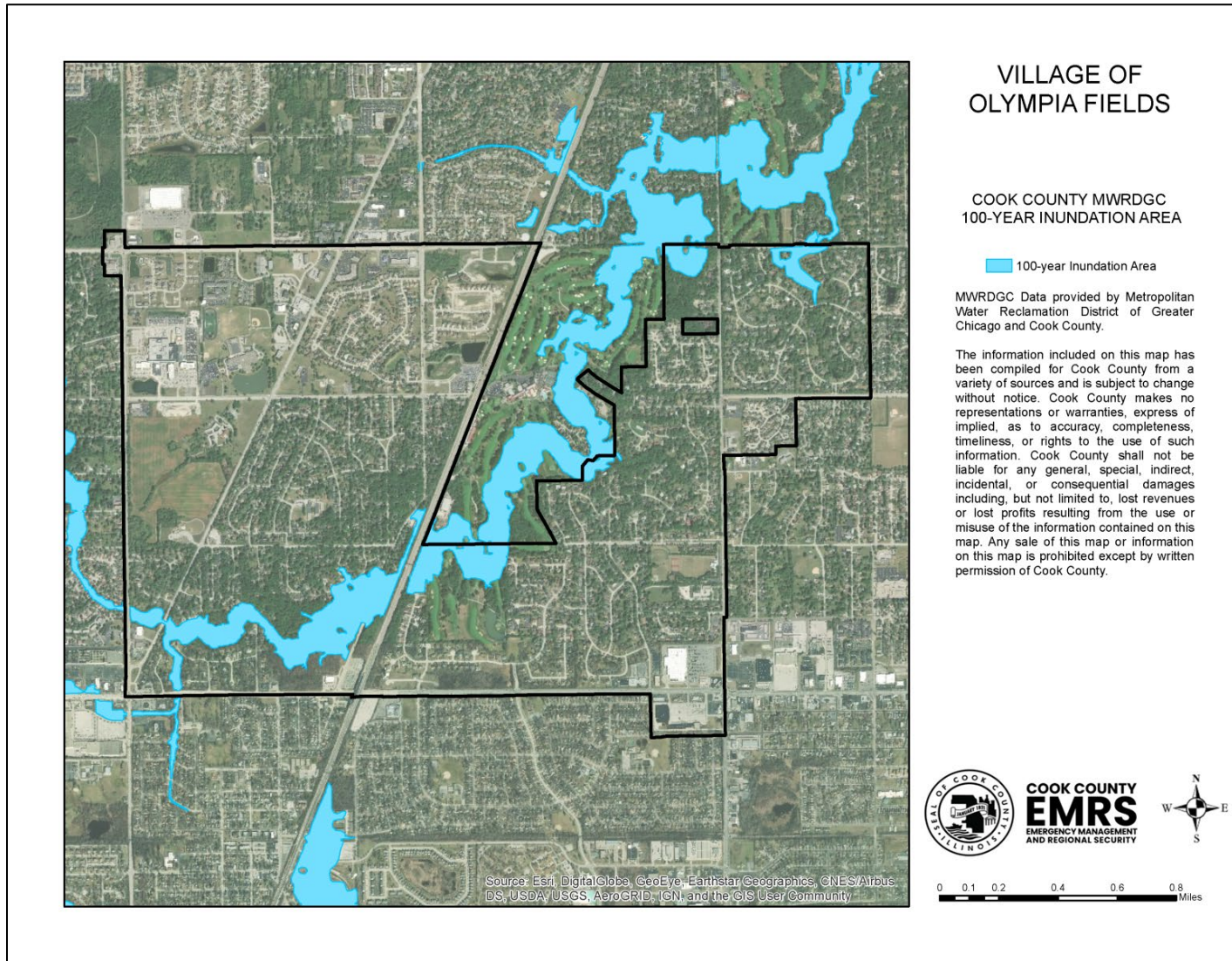
The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notice. Cook County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. Cook County 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.

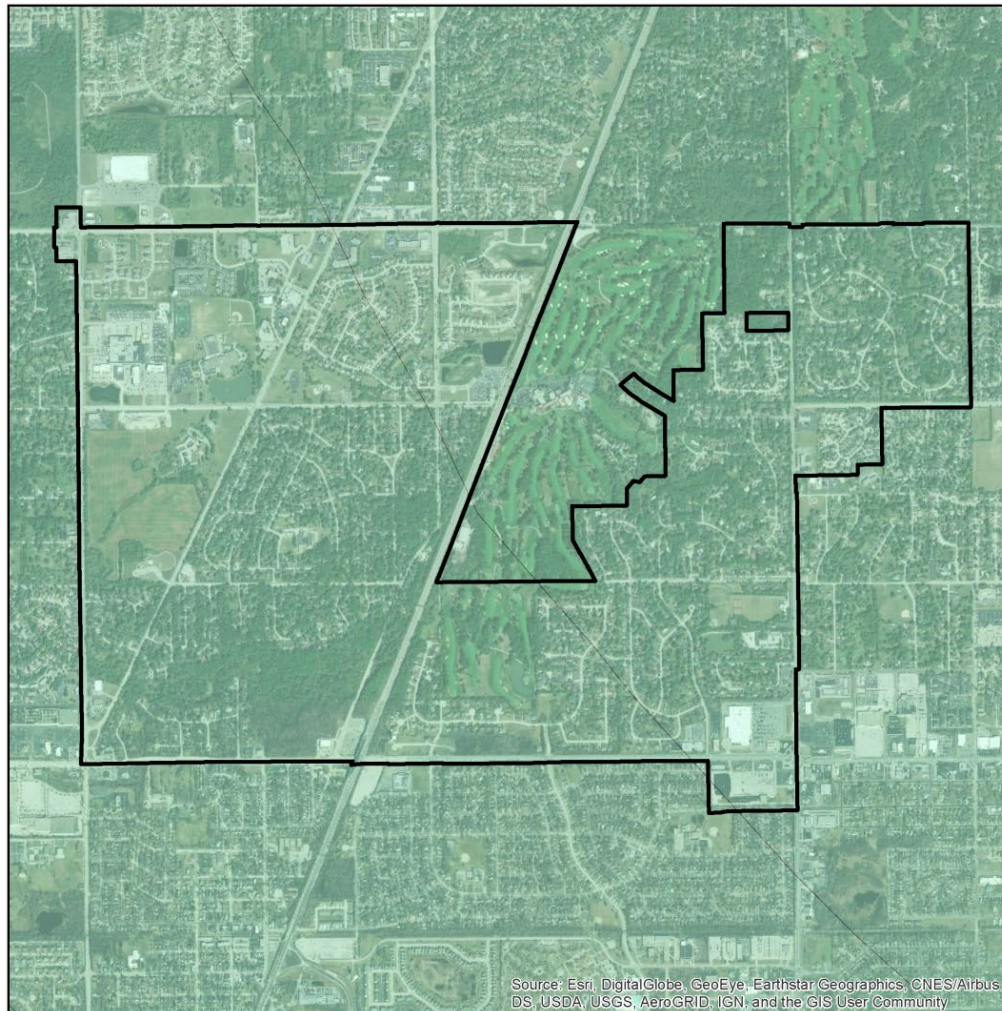


COOK COUNTY
EMRS
EMERGENCY MANAGEMENT
AND REGIONAL SECURITY



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>.





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

VILLAGE OF OLYMPIA FIELDS

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-2789 Map of Surficial Deposits 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 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.



COOK COUNTY
EMRS
EMERGENCY MANAGEMENT
AND REGIONAL SECURITY



0 0.1 0.2 0.4 0.6 0.8 Miles

