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

Hanover Annex

FINAL

July 2019

Prepared for:



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

| Primary Point of Contact | Alternate Point of Contact |
|--|--|
| Terrence Sherrill, Deputy Police Chief 2011 Lake | Mike Menough, Chief of Police 2011 Lake Street |
| Street | Hanover Park, IL 60133 Telephone: 630-823-5501 |
| Hanover Park, IL 60133 Telephone: 630-823- | Email Address: mmenough@hpil.org |
| 5512 | |
| Email Address: tsherrill@hpil.org | |

Jurisdiction Profile

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

- Date of Incorporation: 1958
- Current Population: The 2018 US Census population estimate for Hanover Park was 37,747.
- Population Growth: Hanover Park experienced a very slight decrease in population over a ten year period. The overall population decreased by 0.8% between 2000 and 2010. From 2010 to 2016 there was a slight increase of 0.2%.
- Location and Description: Hanover Park is a suburban community located 30 miles northwest of Chicago with a land area of over 6.71 square miles. The Village is located in both Cook and DuPage Counties. Suburbs adjacent to Hanover Park include: Streamwood to the northwest, Schaumburg to the northwest, Carol Stream to the south, Bloomingdale to the southeast, Roselle to the east, and Bartlett to the west. Hanover Park is situated in the southwest portion of "The Golden Corridor." This corridor stretches northwest from Chicago along the Northwest Tollway (I-90). A major commuter rail facility, including a reconstructed station, is located in central Hanover Park. The Village is also situated at the western entrance to the Elgin-O'Hare Expressway and is only 17 miles from O'Hare International Airport. Nearby are some of the finest recreational areas in Chicagoland, where opportunities for hunting, fishing, water sports, and leisure activities are located.
- Brief History: Hanover Park's roots as a settlement reach back into the 19th century, but the growth into a community of nearly 12,000 families started in the 1950s. Hanover Park was incorporated as a Village in 1958 with a population of 305 and a land area of less than one square mile. All of the land in the original boundaries was in Cook County. In its early stages, Hanover Park was primarily a "bedroom" community with residents commuting to Chicago. Some 750 acres of farmland in DuPage County were annexed in 1969, and this area of the Village dominated Hanover Park's population growth during the 1970s.
- Climate: On the average, there are 192 sunny days per year in Hanover Park. The July high is around 86 degrees and the January low is 12 degrees. The comfort index is 47 out of 100, slightly higher and more comfortable than the U.S. average of 44. Hanover Park gets 36 inches of rain and 33 inches of snow per year. The U.S. average is 37 inches of rain and 25 inches of snow. The number of days with any measurable precipitation is 126.
- Governing Body Format: The Village of Hanover Park is governed by a Village President and a six-member Village Board of Trustees. This body of Government will assume the responsibility for the adoption and implementation of this plan. The Village consists of eight departments:
 Administration, Community Development, Finance, Fire, Human Resource, Informational Technology, Police and Public Works that are overseen by a Village Manager. The Village has six committees whose members are appointed by the Village President and who report to the Village Board of Trustees.
- Development Trends: The Village has adopted a Redevelopment Plan for the Village Center, a
 mixed-use, planned development of over 22 acres at the major intersection of Barrington Road
 and West Lake Street, a focal point at the center of town. It is established as a Tax Increment
 Finance project. The Village Center plan will coordinate public and private investments in mixed
 use, transit-oriented developments for living, working and shopping. This ambitious centerpiece
 development will take shape over the next five to ten years. In 2010, the Comprehensive Plan,

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which provides the long-range goals for land use and community facilities for the entire Village, was updated. While the Comprehensive Plan reflects many existing land uses, it also designates many of the remaining vacant portions of the Village for commercial and business park uses. Additionally, in 2012, a panel of 11 land use and development professionals examined the Irving Park Corridor area and conducted an extensive review. Goals were established to support existing businesses, attract new businesses and bring more people into the Village to shop. Specific steps for improvement were recommended and the next steps are being identified. There are numerous current and recently completed development projects in Hanover Park including a car wash, senior center and multiple new restaurants.

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.

| ABLE: LEGAL AND REGULATORY CAPABILITY | | | | | |
|---------------------------------------|-----------|-------------------------------------|--------------------------------------|-------------------|--|
| | Authority | State or Federal Prohibitions | Other Jurisdictional Authority | State Mandated | Comments |
| Codes, Ordinances & Requi | irements | | | | |
| Building Code | Yes | No | No | Yes | HPMC Chapter 18 Building and Building Regulations 05-01-08 2006 International Building Code & 2006 International Residential Code |
| Zonings | Yes | No | No | Yes | HPMC Chapter 110 Zoning 1991 Revised 11-04-04 |
| Subdivisions | Yes | No | No | No | HPMC. Chapter 90 Subdivision Regulations 05- 21-81 Revised 01-0595 |
| | | | | | HPMC Chapter 38 Engineering Standards and Specifications Article VII Stormwater and Floodplain Regulations 07-19-12 |
| Stormwater Management | Yes | No | Yes | Yes | HPMC Chapter 90 Subdivision Regulations Article IV General Provisions for Subdivision Approval Sect. 90-94 Stormwater Management 07-19-12 |
| | | | | | State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. |

| Post Disaster Recovery | Yes | No | No | No | HPMC Chapter 34 Emergency Services and Disaster Program 07- 181996 |
|----------------------------------|------------|-----------------|-------------|-----|--|
| Real Estate Disclosure | No | No | Yes | Yes | (765 ILCS 77/) Residential Real Property Disclosure Act. |
| Growth Management | Yes | No | No | No | Boundary Agreements: Roselle 11/7/2013 Bloomingdale R-02-38, 11/7/2002 |
| Site Plan Review | Yes | No | Yes | No | HPMC Chapter 110 Zoning Article IV Development Review Procedures Sect. 110-4.3 Site Plan Review County MWRD |
| Public Health and Safety | Yes | No | No | Yes | HPMC Chapter 54 Health and Sanitation Article III Health Officer & Article IV Contagious Disease |
| Environmental Protection | Yes | No | No | No | Comprehensive Plan including Green Plan Approved O-10-13 5/20/2010 |
| Planning Documents | | | | | |
| General or Comprehensive Plan | Yes | No | No | No | Comprehensive Plan Approved O-1013 5/20/2010 Adopted Transit-Oriented Development Plan O-12-12 5/3/2012 |
| Is the plan equipped to prov | ide linkag | e to this mitig | ation plan? | | N/A |
| Floodplain or Basin Plan | Yes | No | No | Yes | HPMC Chapter 38 Engineering Standards and Specifications Article III Floodplain Regulations (to meet 615 ILCS 5/4.9 et seq. 07-20-89 to 04-03-08 |
| Stormwater Plan | Yes | No | No | No | HPMC Chapter 38 Engineering Standards and Specifications Article VII Stormwater and Floodplain Regulations 07-19-12 |
| Capital Improvement Plan | Yes | No | No | No | HPMC Chapter 94 Taxation Article I Annual Budget Sect. 94-4 Capital |

| | | | | | Improvement, Repair, or Replacement Fund 11-19- 81 |
|--|------------|---------------|-----|-----|--|
| What types of capital faciliti | es does th | e plan addre: | ss? | | Village Owned Structures |
| How often is the plan revised | d/updatea | 1? | | | Yearly |
| Habitat Conservation Plan | No | No | No | No | |
| Economic Development Plan | Yes | No | No | Yes | Comprehensive Plan, Annual Fiscal Year Budget, Tri-Annual Strategic Plan |
| Shoreline Management Plan | No | No | No | No | |
| Response/Recovery Plannin | g | | - | | |
| Comprehensive Emergency Management Plan | Yes | No | No | No | Village Emergency Operations Plan 2008 |
| Threat and Hazard Identification and Risk Assessment | No | No | Yes | No | Cook County DHSEM Preparing THIRA |
| Terrorism Plan | Yes | No | No | No | Village Emergency Operation Plan 2008 |
| Post-Disaster Recovery Plan | Yes | No | No | No | Village Emergency Operation Plan 2008 |
| Continuity of Operations Plan | No | No | No | No | |
| Public Health Plans | Yes | No | No | No | Village Emergency Operation Plan 2008/ Strategic National Stockpile Distribution Plan |

| TABLE: FISCAL CAPABILITY | |
|--|--------------------------------|
| Financial Resources | Accessible or Eligible to Use? |
| Community Development Block Grants | Yes |
| Capital Improvements Project Funding | Yes |
| Authority to Levy Taxes for Specific Purposes | Yes |
| User Fees for Water, Sewer, Gas or Electric Service | No |
| 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 |

| TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY | | | |
|---|------------|---|--|
| Staff/Personnel Resources | Available? | Department/Agency/Position | |
| Planners or engineers with knowledge of land development and land management practices | Yes | Engineering & Public Works/ Director of Engineering & Public Works & Community & Economic Development/ Director of Community & Economic Development | |
| Engineers or professionals trained in building or infrastructure construction practices | Yes | Engineering & Public Works/ Director of Engineering & Public Works & Fire Department/Chief of Inspectional Service | |
| Planners or engineers with an understanding of natural hazards | Yes | Engineering & Public Works/ Director of Engineering & Public Works & Fire Department/ Chief of Inspectional Services | |
| Staff with training in benefit/cost analysis | Yes | Finance Department/Finance Director | |
| Surveyors | No | | |
| Personnel skilled or trained in GIS applications | Yes | Community & Economic Development/ Director of Community & Economic Development& Cook County GIS Consortium | |
| Scientist familiar with natural hazards in local area | No | | |
| Emergency manager | Yes | Police Department/Chief of Police | |
| Grant writers | Yes | Police Department/Accreditation and Grant Manager | |

| TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE | |
|--|--|
| What department is responsible for floodplain management in your jurisdiction? | Public Works |
| Who is your jurisdiction's floodplain administrator? (department/position) | T. J. Moore, Director of Public Works |
| Are any certified floodplain managers on staff in your jurisdiction? | No |
| What is the date of adoption of your flood damage prevention ordinance? | July 19, 2012 |

| When was the most recent Community Assistance Visit or Community Assistance Contact? | Community Assistance Visit: 05/20/2004, Community Assistance Contact: 08/29/1997 |
|---|---|
| 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? | Yes – Training needed in floodplain management for newly hired employees |
| 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; however, Hanover Park is interested in joining the CRS program |

| TABLE: COMMUNITY CLASSIFICATIONS | | | | |
|--|----------------|----------------------|-----------------|--|
| | Participating? | Classification | Date Classified | |
| Community Rating System | No | N/A | N/A | |
| Building Code Effectiveness Grading Schedule | Yes | 4 | Unknown | |
| Public Protection/ISO | Yes | 4 | Unknown | |
| StormReady | Yes | Gold (Countywide) | 2014 | |
| Tree City USA | Yes | | April 2013 | |

Jurisdiction-Specific Natural Hazard Event

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

The Natural Hazard Events Table lists all past occurrences of natural hazards within the jurisdiction.

- Repetitive flood loss records are as follows: Number of FEMA-Identified Repetitive Loss Properties: 1
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

| TABLE: NATURAL HAZARD EVENTS | | | | |
|----------------------------------|--------------------------------------|------------|-------------------------------|--|
| Type of Event | FEMA Disaster Number (if applicable) | Date | Preliminary Damage Assessment | |
| Severe Storm, Winds, Flooding | DR-4116 | 4/26/2013 | - | |
| Severe Winter Storm | DR-1960 | 1/31/2011 | - | |
| Severe Storms, Flooding | DR-1935 | 7/19/2010 | - | |
| Severe Storms, Flooding | DR-1800 | 9/13/2008 | - | |
| Severe Storms, Flooding | DR-1729 | 8/20/2007 | - | |
| Severe Storms | - | 8/17/2005 | - | |
| Severe Winter Storm | EM-3161 | 12/11/2000 | - | |
| Winter Snow Storm | EM-3068 | 1/1/1999 | - | |

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: Flooding has been experienced at Anne Fox School Creek, Barrington/Irving Park Road, Highlands subdivision, and Schick Road.

Extreme Heat: Some of the elderly population, particularly those who are treated at Symphony of Hanover Park, are at risk of extreme-heat related effects.

Tornado: Funnel clouds forming over the lake are a concern, especially during a severe weather event.

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: | TABLE: HAZARD RISK RANKING | | | | |
|--------|----------------------------|--|--|--|--|
| Rank | Hazard Type | Risk Rating Score (Probability x Impact) | | | |
| 1 | Severe Weather | 51 | | | |
| 2 | Severe Winter Weather | 51 | | | |
| 3 | Tornado | 42 | | | |
| 4 | Earthquake | 32 | | | |
| 5 | Flood | 21 | | | |
| 6 | Drought | 2 | | | |
| 7 | Dam Failure | 0 | | | |

Mitigation Strategies and Actions

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

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

| TABLE: HA | ZARD MITIGA | TION ACTIO | N PLAN MATR | IX | | | |
|------------|---|-------------------|-----------------------------|--------------|-----------------------|--|-------------------------------------|
| Status | Hazards Mitigated | Objectives Met | | | Sources of Funding | Timeline/Projected Completion Date (a) | Included in Previous Plan? |
| | Code and the | • | | ng Regulatio | ons by adopt | ing the 2012 Interna | tional |
| Completed | Earthquake, Severe Weather Winter Weather | 2, 10, 13 | Inspectional Services | Low | General Fund | Completed | No |
| Action H1. | 2 —Develop a | nd adopt a C | ontinuity of O _l | peration Pl | an. | | |
| Ongoing | Earthquake, Flood, Tornado | 1, 2, 5, 8 | Emergency Management | N/A | N/A | Short-term | No |
| Action H1. | 3—Training fo | or newly hire | d staff in flood | plain mana | gement. | | |
| Completed | Flood | 1, 9, 13 | Public Works | Low | General Fund | Completed | No |
| | 4 —Adoption ead power, ca | | | ance that v | vould encou | rage appropriate pla | nting |
| Completed | Weather | 3, 4, 13 | Development | | General Fund | Completed | No |
| Action H1. | 5 —Develop p | ublic educati | on program oi | n tornado v | warning prot | ocol and sheltering f | acilities. |
| Completed | Tornado | 1, 6 | Emergency Management | Low | General Fund | Completed | No |

| Action H1. | 6—Update th | ne 2008 Emer | gency Operati | ons Plan. | | | |
|-------------|---|----------------|--------------------------|---------------|----------------------------|-----------------------|-----------|
| Completed | All | 1, 5, 8 | Emergency Management | N/A | N/A | Completed | No |
| Action H1. | 7 —Adopt a p | re-event reco | overy ordinand | e. | | | |
| Ongoing | All | 1, 4, 5, 8 | Emergency Management | N/A | N/A | Long-term | No |
| Action H1. | 8—Update th | ne Emergency | Operation Ce | nter. | | | |
| Completed | All | 1, 2, 5 | Emergency Management | Medium | FEMA or, IEMA Grants | Completed | No |
| Action H1. | 9 —Develop a | ind adopt a U | Inified Develop | ment Ord | inance for zo | ning, sign, and subd | ivisions. |
| Completed | Flood, Severe Weather | 3, 4, 10 | Community Development | Low | General Fund | Completed | No |
| Action H1. | 10 — Participa | ate in the Co | mmunity Ratin | g System. | | | |
| Completed | Flood | 1, 2, 3, 11 | Public Works | Low | General Funds | Completed | Yes |
| Action H1. | 11 —Establish | and continu | e stream main | tenance p | rograms. | | |
| Completed | Flood | 2, 9 | Public Works | Low | General Funds | Completed | Yes |
| Action H1. | 12 —Participa | ite in the Nat | ional Weather | Service's S | StormReady | program. | |
| Completed | Flood, Tornado, Severe Weather | 1, 5, 6, 11 | Emergency Management | Low | General Funds | Completed | Yes |
| Action H1.1 | 13—Monitor | changing floo | odplain maps t | o identify s | structures no | w within the bound | aries. |
| Ongoing | Flood | 7, 9 | Public Works | N/A | N/A | Long-term | Yes |
| Action H1.1 | 14 —Review a | nd identifica | tion of critical | facilities to | determine i | f they are located in | <u>'</u> |
| hazardous | locations. | | | | | | |
| | Flood, Tornado Earthquake | 1, 2, 3, 9 | Public Works | N/A | N/A | Long-term | Yes |
| Action H1.1 | 15 —Developr | ment of flood | I stage maps. | | | | |
| Removed | Flood | 3, 4, 9 | Public Works | N/A | N/A | Removed | Yes |
| | nderstanding | | | n Strategy | covering safe | ety issues, protectin | g |
| Completed | All | 1, 5, 6 | Community Development | Low | General Fund | Completed | Yes |
| Action H1.1 | 17 —Distribut | e and make a | vailable prope | rty protec | tion referenc | ces on insurance, em | ergency |
| • | ess and prope | erty protectio | n. | | | | |
| Ongoing | All | 5, 6 | Community Development | Low | General Fund | Short-term | Yes |

| Action H1. | 18 —Construc | t regional sto | rmwater cont | rol facilitie | | | |
|--------------------|---------------------------------|--------------------------------|-------------------------|---------------------------|--|--------------------------|----------|
| Removed | Flooding, Severe Weather | 2, 3, 9 | Public Works | High | MWRD and FEMA Grants | Removed | No |
| | | • | • • | ting, purch | nase, or reloc | ation of structures i | n |
| | ne areas to p | | | | | | |
| | | i i | rith exposure t | | | Г | I |
| Removed | All | 7, 13 | Village | High | FEMA Hazard Mitigation Grants | Removed | No |
| Action H1. | 20 —Continue | to support t | he countywide | actions ic | lentified in th | is plan. | |
| Ongoing | All | All | Village | Low | General Fund | Short- and long- term | No |
| Action H1. | 21 —Actively | participate in | the plan main | tenance st | trategy identi | fied in this plan. | |
| Ongoing | All | 3, 4, 6 | DHSEM Village | Low | General Fund | Short-term | No |
| adopted flo | ood damage p oublic assistan | revention or ice and inforr | dinance, partion | cipating in dplain req | floodplain ma uirements an | | |
| Ongoing | Flooding | 4, 6, 9 | Public Works | Low | General Fund | Short-term and ongoing | No |
| Action H1. events. | 23 —Where fe | easible, imple | ment a progra | ım to reco | rd high water | marks following hig | h-water |
| Ongoing | Flooding, Severe Weather | 3, 6, 9 | Village | Medium | General Fund; FEMA Grant Funds (Public Assistance) | Long-term | No |
| Action H1. | 24 —Integrate | the hazard r | nitigation plar | into othe | r plans, progr | ams, or resources th | nat |
| dictate lan | d use or redev | velopment. | | | | | |
| Ongoing | All | 3, 4, 6, 10, 13 | Economic Development | Low | General Fund | Short-term | No |
| Action H1. | 25 —Partner v | vith MWRD t | o provide floo | dwater rel | ief by increas | ing capacity of storr | n sewer. |
| Ongoing | Flooding, Severe Weather | 2, 8, 9 | Public Works | High | MWRD and FEMA Grants | Long-term | No |
| Action H1. | 26 —Enforce t | he new MWI | RD Watershed | Managem | ent Ordinand | e (WMO). | |
| Ongoing | Flooding, Severe Weather | 2, 3, 4, 9, 10 | Public Works | Low | General Fund | Short-term | No |
| Action H1. | 27 —Provide s | storm shelter | s at the MWRI | D ball field | property dur | ing property improv | ement. |
| Removed | Tornado | 8, 12 | Public Works | High | General Funds | Removed | No |

| | | | | | OSLED | | |
|-------------|----------------------|----------------|----------------|--------------|-----------------|---------------------------|--------|
| | | | | | Grants | | |
| Action H | 1 28—Continue | to enhance | emergency nr | enarednes | | available to citizens | and |
| | rough the cou | | | • | | | ana |
| | | тиу/ппиппстра | T . | T | T . | Γ΄. | |
| New | All | 6 | Emergency | TBD | TBD | TBD | TBD |
| | | | Management | | | | |
| Action H | 1.29 —Develop | a multi-facet | ed public awa | reness cam | paign to incr | ease citizen enrollm | ent in |
| the jurisd | liction's Emerge | ency Notificat | tion | | | | |
| System. | o . | , | | | | | |
| New | All | 6 | Emergency | TBD | ТВD | ТВD | TBD |
| | | | Management | | | | |
| Action 111 | 1 20 Undata t | ha Villaga of | | | ith Emargana | l V Information or pro | |
| | | _ | | website w | itii Eillergent | y Information or pro | ovide |
| links to tr | ne Cook County | DHSEM web | site. | | | | |
| New | All | 6 | Emergency | TBD | TBD | TBD | TBD |
| | | | Management | | | | |
| Action H | 1.31—Ensure th | nat local com | munities have | adequate | shelter facilit | ies with properly tra | ined |
| | tors and/or mai | | | · | | , | |
| | • | • | | the home | less, the disa | bled and families. | |
| New | Extreme | 6, 12 | 1 | твр | тво | ТВО | ТВD |
| IVCW | | 0, 12 | Services | | 100 | | |
| | Heat, | | Services | | | | |
| | Extreme | | | | | | |
| | Cold | | | | | | |
| (a) Ongoi | ng indicates co | ntinuation of | an action tha | t is already | in place. Sho | rt-term indicates | |
| implemer | ntation within f | ive years. Lor | ng-term indica | ites implen | nentation afte | er five years. | |
| | | | | | | | |

| TABLE: MI | 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 | 3 | Medium | Medium | Yes | No | Yes | High |
| 2 | 4 | High | Low | Yes | No | Yes | High |
| 3 | 3 | Medium | Medium | Yes | Yes | No | Medium |
| 4 | 3 | Low | Low | Yes | Yes | No | Medium |
| 5 | 2 | High | Low | Yes | Yes | Yes | High |
| 6 | 3 | High | Low | Yes | No | Yes | High |
| 7 | 4 | Medium | Low | Yes | No | Yes | High |
| 8 | 3 | High | High | Yes | Yes | No | Low |
| 9 | 3 | Medium | Low | Yes | No | Yes | Medium |
| 10 | 4 | Medium | Low | Yes | No | No | Medium |

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| 11 | 2 | Medium | Low | Yes | No | Yes | High |
|-----------|--------------|---------------|----------------|-----|-----|-----|--------|
| 12 | 4 | High | Low | Yes | No | No | Medium |
| 13 | 2 | Low | Low | Yes | No | Yes | Medium |
| 14 | 4 | Medium | Low | Yes | No | Yes | High |
| 15 | 3 | Low | Low | Yes | No | Yes | High |
| 16 | 3 | Medium | Low | Yes | No | Yes | Medium |
| 17 | 2 | Low | Low | Yes | No | No | Low |
| 18 | 3 | High | High | Yes | Yes | No | High |
| 19 | 2 | High | High | Yes | Yes | No | Medium |
| 20 | 13 | Medium | Low | Yes | No | Yes | High |
| 21 | 3 | Medium | Low | Yes | Yes | Yes | High |
| 22 | 3 | Medium | Low | Yes | No | Yes | High |
| 23 | 3 | Medium | Medium | Yes | Yes | No | Medium |
| 24 | 5 | Medium | Low | Yes | No | Yes | High |
| 25 | 3 | High | High | Yes | Yes | No | High |
| 26 | 5 | Medium | Low | Yes | No | Yes | High |
| 27 | 2 | High | High | Yes | Yes | No | High |
| 28 | 1 | TBD | TBD | TBD | TBD | TBD | TBD |
| 29 | 1 | TBD | TBD | TBD | TBD | TBD | TBD |
| 30 | 1 | TBD | TBD | TBD | TBD | TBD | TBD |
| 31 | 2 | TBD | TBD | TBD | TBD | TBD | TBD |
| (a) See C | hapter 1 for | explanation o | of priorities. | | | | |

New Mitigation Actions

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

| Mitigation Action Continue to enhance emergency preparedness information available to citizens and visitors through the county/municipality website and community outreach opportunities. Year Initiated Applicable Jurisdiction Village of Hanover Park Lead Agency/Organization Supporting Agencies/Organizations Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
|---|
| county/municipality website and community outreach opportunities. Year Initiated 2019 Applicable Jurisdiction Village of Hanover Park Lead Emergency Management Agency/Organization Supporting Agencies/Organizations Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Year Initiated Applicable Jurisdiction Village of Hanover Park Lead Agency/Organization Supporting Agencies/Organizations Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Applicable Jurisdiction Village of Hanover Park Lead Emergency Management Agency/Organization Supporting Agencies/Organizations Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Lead Agency/Organization Supporting Agencies/Organizations Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Agency/Organization Supporting Agencies/Organizations Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Agencies/Organizations Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Applicable Goal Promote public understanding of and support for hazard mitigation. Use the best available data, science and technologies to educate the pub |
| Use the best available data, science and technologies to educate the pub |
| · · · · · · · · · · · · · · · · · · · |
| |
| Applicable Objective and to improve understanding of the location and potential impacts of |
| natural hazards, the vulnerability of building types and community |
| development patterns, and the measures needed to protect life safety. |
| Potential Funding TBD |
| Source |
| Estimated Cost TBD |
| Benefits (loss avoided) TBD |
| Projected Completion TBD |
| Date |
| Priority and Level of |
| Importance (Low, TBD |
| Medium, High) |
| Benefit Analysis (Low, TBD |
| Medium, High) |
| Cost Analysis (Low, TBD |
| Medium, High) |
| Actual Completion TBD |
| Date |

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

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

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

| Mitigation Action Develop a multi-faceted public awareness campaign to increase cit enrollment in the jurisdiction's Emergency Notification System. | izen |
|---|-----------|
| , | |
| Notification System | |
| Notification System. | |
| Year Initiated 2019 | |
| Applicable Jurisdiction Village of Hanover Park | |
| Lead Emergency Management | |
| Agency/Organization | |
| Supporting | |
| Agencies/Organizations | |
| Applicable Goal Promote public understanding of and support for hazard mitigation | ٦. |
| Use the best available data, science and technologies to educate the | ne public |
| Applicable Objective and to improve understanding of the location and potential impac | ts of |
| natural hazards, the vulnerability of building types and community | |
| development patterns, and the measures needed to protect life sa | fety. |
| Potential Funding TBD | |
| Source | |
| Estimated Cost TBD | |
| Benefits (loss avoided) TBD | |
| Projected Completion TBD | |
| Date | |
| Priority and Level of | |
| Importance (Low, TBD | |
| Medium, High) | |
| Benefit Analysis (Low, TBD | |
| Medium, High) | |
| Cost Analysis (Low, TBD | |
| Medium, High) | |
| Actual Completion TBD | |
| Date | |

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

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

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

| | Indata the Millage of Hangyon Doul, Mahaita with Fusence of Information |
|-------------------------|---|
| | Update the Village of Hanover Park Website with Emergency Information |
| | or provide links to the Cook County DHSEM |
| | website. |
| Year Initiated 2 | 2019 |
| | Village of Hanover Park |
| Lead | Emergency Management |
| Agency/Organization | |
| Supporting | |
| Agencies/Organizations | |
| Applicable Goal | Promote public understanding of and support for hazard mitigation. |
| | Use the best available data, science and technologies to educate the public |
| | and to improve understanding of the location and potential impacts of |
| | natural hazards, the vulnerability of building types and community |
| C | development patterns, and the measures needed to protect life safety. |
| Potential Funding | ГВD |
| Source | |
| Estimated Cost | ГВD |
| Benefits (loss avoided) | ГВD |
| Projected Completion | ГВD |
| Date | |
| Priority and Level of | |
| Importance (Low, | ГВD |
| Medium, High) | |
| Benefit Analysis (Low, | ГВD |
| Medium, High) | |
| Cost Analysis (Low, | ГВD |
| Medium, High) | |
| Actual Completion | ГВD |
| Date | |

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

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

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

| Mitigation Action | Ensure that local communities have adequate shelter facilities with |
|-----------------------------|--|
| | properly trained coordinators and/or managers that |
| | can address the needs of at-risk populations such as the elderly, the |
| | homeless, the disabled and families. |
| Year Initiated | 2019 |
| Applicable Jurisdiction | Village of Hanover Park |
| Lead | Community Services |
| Agency/Organization | |
| Supporting | |
| Agencies/Organizations | |
| | Promote public understanding of and support for hazard mitigation. |
| | Involve stakeholders to enhance the local capacity to mitigate, prepare for, |
| Applicable Goal | and respond to the impacts of natural hazards. |
| | Protect the lives, health, safety, and property of the citizens of Cook |
| | County from the impacts of natural hazards. |
| | Use the best available data, science and technologies to educate the public |
| | and to improve understanding of the location and potential impacts of |
| Applicable Objective | natural hazards, the vulnerability of building types and community |
| | development patterns, and the measures needed to protect life safety. |
| | Reduce natural hazard-related risks and vulnerability to potentially |
| | isolated populations within the planning area. |
| Potential Funding | TBD |
| Source | |
| Estimated Cost | TBD |
| Benefits (loss avoided) | TBD |
| Projected Completion | TBD |
| Date | |
| Priority and Level of | |
| Importance (Low, | TBD |
| Medium, High) | |
| Benefit Analysis (Low, | TBD |
| Medium, High) | |
| Cost Analysis (Low, | TBD |
| Medium, High) | |
| Actual Completion | TBD |
| Date | |
| | |

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

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

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

Ongoing Mitigation Actions

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

| TABLE: ACTION PLAN MATRIX | | | |
|---|--|---------------------------|--|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) | |
| # H-1.2 | Develop and Adopt a Continuity of Operation Plan | | |
| Status Description: Yes | | 0 | |
| Completion status legend: | | | |
| N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken | | | |

| TABLE: ACTION PLAN MATRIX | | | |
|--|---|---------------------------|--|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) | |
| # H-1.7 | Adopt a pre-event recovery ordinance. | | |
| Status Description: No | | Х | |
| Completion status legend: | | | |
| N = New | O = Action Ongoing toward Completion | | |
| C = Project Completed R = Want Removed from Annex X = No Action Taken | | | |

| TABLE: ACTION PLAN MATRIX | | |
|---|--|---------------------------|
| Action Number Action Taken Y/N | l and the last base by the same and the same | Status (X, O, C, R, N) |
| # H-1.13 | Monitor changing floodplain maps to identify structures now within the boundaries | |
| Status Description: Yes | | 0 |
| Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken | | |

| TABLE: ACTION PLAN MATRIX | | |
|--------------------------------------|--|---------------------------|
| Action Number Action Taken Y/N | · · · · · · · · · · · · · · · · · · · | Status (X, O, C, R, N) |
| # H-1.14 | Review and identification of critical infrastructure facilities to determine if they are located in hazardous locations. | |
| Status Description: Yes | | 0 |
| | | |

| TABLE: ACTION PLAN MATRIX | | |
|--|--|---------------------------|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) |
| # H-1.17 | Distribute and make available property protection references on insurance, emergency preparedness and property protection. | |
| Status Description: Yes | | 0 |
| Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken | | |

| TABLE: ACTION PLAN MATRIX | | |
|--|---|---------------------------|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) |
| # H-1.20 | Continue to identify and support the county wide actions identified in this plan. | |
| Status Description: Yes | | 0 |
| Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken | | |

| TABLE: ACTION PLAN MATRIX | | |
|--------------------------------------|--|---------------------------|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) |
| # H-1.21 | Actively participate in the plan maintenance strategy identified in this plan. | |
| Status Description: Yes | | 0 |
| | Itus legend: O = Action Ongoing toward Completion Inpleted R = Want Removed from Annex X = No Action Taken | |

| TABLE: ACTION PLAN MATRIX | | | |
|---|--|---------------------------|--|
| Action Number Action Taken | Action Item Description | Status (X, O, C, R, N) | |
| Y/N | | (7, 0, 0, 1, 1, | |
| # H-1.22 | Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts. | | |
| Status | | 0 | |
| Description: | | | |
| Yes | | | |
| Completion status legend: | | | |
| N = New | O = Action Ongoing toward Completion | | |
| C = Project Completed R = Want Removed from Annex X = No Action Taken | | | |

| TABLE: ACTION PLAN MATRIX | | |
|--|---|---------------------------|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) |
| # H-1.23 | Where feasible, implement a program to record high water marks following high-water events. | |
| Status Description: No | | 0 |
| Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken | | |

| TABLE: ACTION PLAN MATRIX | | |
|--|---|---------------------------|
| Action Number Action Taken Y/N | • | Status (X, O, C, R, N) |
| # H-1.24 | Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment. | |
| Status Description: Yes | | 0 |
| Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken | | |

| TABLE: ACTION PLAN MATRIX | | |
|--------------------------------------|--|---------------------------|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) |
| # H-1.25 | Partner with MWRD to provide floodwater relief by increasing capacity of storm sewer. | |
| Status Description: No | | 0 |
| | itus legend: O = Action Ongoing toward Completion pleted R = Want Removed from Annex X = No Action Taken | |

| TABLE: ACTION PLAN MATRIX | | |
|--------------------------------------|--|---------------------------|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) |
| # H-1.26 | Enforce the MWRD Watershed Management Ordinance (WMO) | |
| Status Description: Yes | | О |
| Completion sta | itus legend: | |
| | O = Action Ongoing toward Completion npleted R = Want Removed from Annex X = No Action Taken | |

Completed Mitigation Actions

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

| TABLE: ACTIO | TABLE: ACTION PLAN MATRIX | | |
|--|--|---------------------------|--|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) | |
| # H-1.1 | Update the Building Code and Building Regulations by adopting the 2012 International Residential Code and the 2012 International Building Code | | |
| Status Description: Yes | | С | |
| Completion st N = New C = Project Co | • | | |

| TABLE: ACTION PLAN MATRIX | | |
|---------------------------|---|-----------------|
| Action | Action Item Description | Status |
| Number | | (X, O, C, R, N) |
| Action Taken | | |
| Y/N | | |
| # H-1.3 | Training for newly hired staff in floodplain management | |
| Status | | С |
| Description: | | |
| Yes | | |
| Completion st | atus legend: | |
| N = New | O = Action Ongoing toward Completion | |
| C = Project Cor | mpleted R = Want Removed from Annex X = No Action Taken | |

| TABLE: ACTION PLAN MATRIX | | | | | |
|--|---|---------------------------|--|--|--|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) | | | |
| # H-1.4 | Adoption of a new landscaping ordinance that would encourage appropriate planting near overhead power, cable, and phone lines | | | | |
| Status Description: Yes | | С | | | |
| Completion st N = New C = Project Co | catus legend: O = Action Ongoing toward Completion mpleted R = Want Removed from Annex X = No Action Taken | | | | |

| TABLE: ACTION | N PLAN MATRIX | |
|------------------------|--|-----------------|
| Action | Action Item Description | Status |
| Number | | (X, O, C, R, N) |
| Action Taken | | |
| Y/N | | |
| | Develop public education program on tornado warning protocol and sheltering facilities | |
| Status | | С |
| Description: | | |
| Yes | | |
| Completion st | atus legend: | |
| N = New | O = Action Ongoing toward Completion | |
| C = Project Cor | mpleted R = Want Removed from Annex X = No Action Taken | |

| TABLE: ACTION PLAN MATRIX | | | | | | |
|---|--|---------------------------|--|--|--|--|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) | | | | |
| # H-1.6 | Update the 2008 Emergency Operations Plan | | | | | |
| Status Description: Yes | | С | | | | |
| Completion st | atus legend: | | | | | |
| N = New C = Project Co | O = Action Ongoing toward Completion mpleted R = Want Removed from Annex X = No Action Taken | | | | | |

| TABLE: ACTION PLAN MATRIX | | | | | |
|--|--|----------------------------|---------------------------|--|--|
| Action Number Action Taken Y/N | Action Item Description | | Status (X, O, C, R, N) | | |
| # H-1.8 | Update the Emergency Operation Center | | | | |
| Status Description: Yes | | | С | | |
| Completion st N = New C = Project Co | catus legend: O = Action Ongoing toward Completion mpleted R = Want Removed from Annex | X = No Action Taken | | | |

| TABLE: ACTION PLAN MATRIX | | | | | |
|---------------------------|--|-----------------|--|--|--|
| Action | Action Item Description | Status | | | |
| Number | | (X, O, C, R, N) | | | |
| Action Taken | | | | | |
| Y/N | | | | | |
| # H-1.9 | Develop and adopt a Unified Development Ordinance for zoning, sign, and subdivisions | | | | |
| Status | | С | | | |
| Description: | | | | | |
| Yes | | | | | |
| Completion st | atus legend: | | | | |
| N = New | O = Action Ongoing toward Completion | | | | |
| C = Project Cor | mpleted R = Want Removed from Annex X = No Action Taken | | | | |

| TABLE: ACTION PLAN MATRIX | | | | | |
|---|---|---------------------------|--|--|--|
| Action Number Action Taken Y/N | Action Item Description | Status (X, O, C, R, N) | | | |
| # H-1.10 | Participate in the Community Rating System | | | | |
| Status Description: Yes | | С | | | |
| Completion st | atus legend: | | | | |
| N = New C = Project Co | O = Action Ongoing toward Completion mpleted R = Want Removed from Annex X = No Action Taken | | | | |

| TABLE: ACTION PLAN MATRIX | | | | | |
|---------------------------|---|-----------------|--|--|--|
| Action | Action Item Description | Status | | | |
| Number | | (X, O, C, R, N) | | | |
| Action Taken | | | | | |
| Y/N | | | | | |
| # H-1.11 | Establish and continue stream maintenance programs | | | | |
| Status | | | | | |
| Description: | | C | | | |
| Yes | | | | | |
| Completion st | atus legend: | | | | |
| N = New | O = Action Ongoing toward Completion | | | | |
| C = Project Cor | mpleted R = Want Removed from Annex X = No Action Taken | | | | |

| TABLE: ACTIO | N PLAN MATRIX | |
|----------------|---|-----------------|
| Action | Action Item Description | Status |
| Number | | (X, O, C, R, N) |
| Action Taken | | |
| Y/N | | |
| # H-1.12 | Participate in the National Weather Service's StormReady program | |
| Status | | С |
| Description: | | |
| Yes | | |
| Completion st | atus legend: | |
| N = New | O = Action Ongoing toward Completion | |
| C = Project Co | mpleted R = Want Removed from Annex X = No Action Taken | |

| TABLE: ACTION PLAN MATRIX | | | | | |
|---------------------------|---|-----------------|--|--|--|
| Action | Action Item Description | Status | | | |
| Number | | (X, O, C, R, N) | | | |
| Action Taken | | | | | |
| Y/N | | | | | |
| # H-1.16 | Development of a Public Information Strategy covering safety issues, protecting property, understanding floods, and protecting watersheds | | | | |
| Status | | С | | | |
| Description: | | | | | |
| Yes | | | | | |
| Completion st | atus legend: | | | | |
| N = New | O = Action Ongoing toward Completion | | | | |
| C = Project Cor | mpleted R = Want Removed from Annex X = No Action Taken | | | | |

Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

Additional Comments

No additional comments at this time.

HAZUS-MH Risk Assessment Results

| HANOVER PARK EXISTING CONDITIONS | | | | | | |
|---|-----------------|--|--|--|--|--|
| 2010 Population 37,973 | | | | | | |
| Total Assessed Value of Structures and Contents | \$4,140,579,281 | | | | | |
| Area in 100-Year Floodplain | 121.95 acres | | | | | |
| Area in 500-Year Floodplain | 217.70 acres | | | | | |
| Number of Critical Facilities | 29 | | | | | |

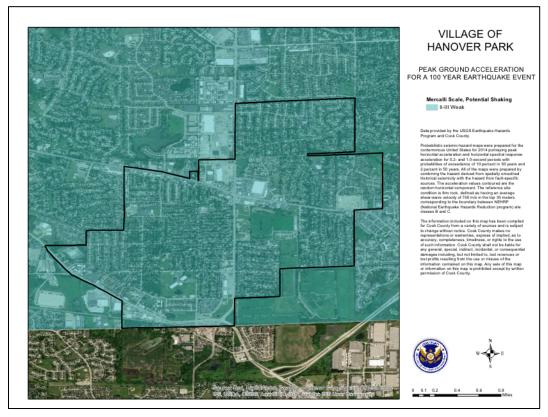
| HAZARD EXPO | OSURE I | IN HA | NOVER PAF | RK | | | | |
|-------------------------|-------------------------------|---------|--------------|-------------------------|----------|---------|---------------------|---------------------|
| | Number Exposed | | Value Expose | Value Exposed to Hazard | | | % of Total Assessed | |
| | Popula | tion | Buildings | Structure | Conten | ts | Total | Value Exposed |
| Dam Failure | | | | | | | | |
| Buffalo Creek | 0 | | 0 | \$0 | \$0 | | \$0 | 0.00% |
| U. Salt Cr. #2 | 0 | | 0 | \$0 | \$0 | | \$0 | 0.00% |
| Touhy | 0 | | 0 | \$0 | \$0 | | \$0 | 0.00% |
| U. Salt Cr. #3 | 0 | | 0 | \$0 | \$0 | | \$0 | 0.00% |
| U. Salt Cr. #4 | 0 | | 0 | \$0 | \$0 | | \$0 | 0.00% |
| Flood | | | | | | | | |
| 100-Year | 1,489 | | 458 | \$141,895,634 | \$109,02 | 25,817 | \$250,921,451 | 6.06% |
| 500-Year | 1,937 | | 596 | \$197,966,30 | \$152,70 | 04,551 | \$350,670,853 | 8.47% |
| Tornado | | | | | | | | |
| 100-Year | - | | _ | \$371,740,780 | \$233,55 | 50,085 | \$605,290,866 | 14.62% |
| 500-Year | - | | - | \$702,150,050 | \$422,26 | 67,930 | \$1,124,417,980 | 27.16% |
| ESTIMATED P | ROPER [*] | TY DA | MAGE VAL | UES IN HANOVI | ER PARK | (| | |
| | E | stima | ited Damage | e Associated wit | h Hazar | d | | % of Total Assessed |
| | В | Buildir | ng | Contents | | Total | | Value Damaged |
| Dam Failure | | | | | | | | |
| Buffalo Creek | \$ | 0 | | \$0 | | \$0 | | 0.00% |
| U. Salt Cr. #2 | \$ | 0 | | \$0 | | \$0 | | 0.00% |
| Touhy | \$ | 0 | | \$0 | | \$0 | | 0.00% |
| U. Salt Cr. #3 | alt Cr. #3 \$0 \$0 \$0 | | 0.00% | | | | | |
| U. Salt Cr. #4 | \$ | 0 | | \$0 | | \$0 | | 0.00% |
| Earthquake | | | | | | | | |
| 1909 Historica Event | al \$ | 15,38 | 37,698 | \$4,104,898 | | \$19,49 | 92,596 | 0.47% |
| Flood | | | | | | | | |

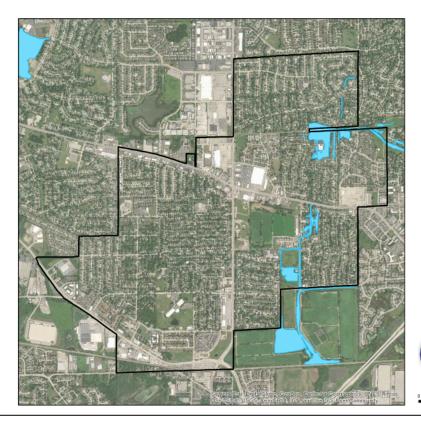
VOLUME 2: COOK COUNTY HAZARD MITIGATION PLAN – HANOVER ANNEX

| 10-Year | \$0 | \$0 | \$0 | 0.00% | | | |
|----------|---------------|--------------|---------------|-------|--|--|--|
| 100-Year | \$1,082,455 | \$2,239,284 | \$3,321,740 | 0.08% | | | |
| 500-Year | \$3,943,937 | \$3,502,161 | \$7,446,098 | 0.18% | | | |
| Tornado | | | | | | | |
| 100-Year | \$37,174,078 | \$23,355,009 | \$60,529,087 | 1.46% | | | |
| 500-Year | \$102,513,907 | \$61,651,118 | \$164,165,025 | 3.96% | | | |

Hazard Mapping







VILLAGE OF HANOVER PARK

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.

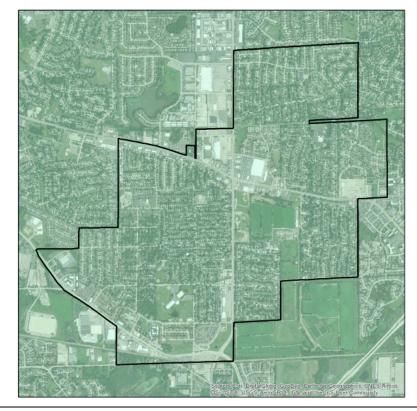
Chicago and Cook County.

The information included on this map has been compled for Cook County from a variety of sources and is subject to change upon the control of the

DISCLAMER: The Cook County MWRDGC 100-year hundation 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 HANOVER PARK

LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY

high very low







VILLAGE OF HANOVER PARK

NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

C - Very Dense Soil, Soft Rock

D - Stiff Soil

F- Site Specific Evaluation

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

Data provided by the Bitmos State Cestopical Survey and Count County.

The Central United States Earthquiek Concentrian (CUSEC) State Gookpales produced a regional Bod State Cestopical Survey and County Co







VILLAGE OF HANOVER PARK

100- AND 500- YEAR TORNADO EVENTS

Magnitude

4 (100 year event) 5 (500 year event)

Historic tornado data provided by NOAA/NWS showing the initial points and paths of all F4 and F5 events observed from 1950 to 2017.



