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

# **Bartlett Annex**

## FINAL

July 2019

Prepared for:



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

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# Hazard Mitigation Point of Contact

| Primary Point of Contact       | Alternate Point of Contact | Alternate Point of Contact        |
|--------------------------------|----------------------------|-----------------------------------|
| Michael McGuigan, EMA          | James Durbin, Deputy Chief | Brian Goralski, Building Director |
| 630-742-6295                   | 630-837-0846 X 5105        | 630-837-0800                      |
| <u>mmcguigan@vbartlett.org</u> | jdurbin@vbartlett.org      | <u>bgoralski@vbartlett.org</u>    |

## Jurisdiction Profile

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

- Date of Incorporation: 1891
- Current Population: In 2019, 41,208 (100% urban, 0% rural). (City-Data)
- Population Growth: Based on the data tracked by the U.S. Census Bureau, population change from 2000 to 2010 is 8.9%
- Location and Description: Bartlett is located at Latitude: 41°995'0 N Longitude: 88°185'6 W.
   Bartlett is a suburb of Chicago in Cook, DuPage, and Kane County Illinois, United States, approximately 40 miles northwest of Chicago. The area total is 15.88 sq mi and 10,165 acres.
   Bartlett has 1 Metra station connecting it to downtown Chicago, on the Big Timber Line.
- Brief History: In 1891 Bartlett was founded by Luther Bartlett.
- Climate: In Bartlett, the summers are warm and wet, the winters are freezing and windy, and it is partly cloudy year round. Over the year, the
- temperature typically varies from 19°F to 83°F and is rarely below -0°F or above 91°F.
- Governing Body Format: The Village of Bartlett is governed by a Village President and sixmember Board of Trustees, all of whom are elected for four-year staggered terms, and who serve with pay. The Board is the legislative body of the Village government. All administrative work is performed under the direction of the Village Administrator, who is salaried and appointed by the Village President and Board of Trustees. Bartlett is represented by the 6th Congressional District of Illinois, 22nd District of the Illinois Senate and the 44th District of the Illinois House of Representatives.
- Development Trends: Bartlett has seen a steady growth of housing and business over the past decade.

## 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 REGULA                    | FORY CAPA       | ABILITY                             |                 |                   |   |
|--|-----------------|-------------------------------------|-----------------|-------------------|---|
|  | Authority       | State or<br>Federal<br>Prohibitions | Jurisdictional  | State<br>Mandated | Comments                                  |
| Codes, Ordinances & Requir                 | ements          |                                     | •               |                   |   |
| Building Code                              | Yes             | No                                  | No              | Yes               | IRC 2012<br>IBC 2012<br>2018 IL Energy    |
| Zonings                                    | Yes             | No                                  | No              | Yes               | Ord. 2011-70, 10-18-2011                  |
| Subdivisions                               | Yes             | No                                  | No              | -                 |   |
| Stormwater Management                      | Yes-<br>Partial | No                                  | DuPage,<br>Kane |                   | DuPage Co. 8-1-19<br>Stormwater Ordinance |
| Post Disaster Recovery                     | Yes             | _                                   | -               | -                 |   |
| Real Estate Disclosure                     | No              | _                                   | -               | -                 |   |
| Growth Management                          | Yes             | _                                   | -               | _                 |   |
| Site Plan Review                           | Yes             | No                                  | No              | No                |   |
| Public Health and Safety                   | Yes             | No                                  | -               | _                 |   |
| Environmental Protection                   | Yes             | -                                   | -               | -                 |   |
| Planning Documents                         |                 |                                     |                 |                   |   |
| General or Comprehensive<br>Plan           | Yes             | -                                   | Yes             | Yes               |   |
| Is the plan equipped to provi              | de linkage      | to this mitigo                      | ation plan?     |                   |   |
| Floodplain or Basin Plan                   | Yes             | No                                  | Yes             | Yes               | DuPage County and Cook<br>County          |
| Stormwater Plan                            | Yes             | No                                  | Yes             | Yes               | DuPage County                             |
| Capital Improvement Plan                   | Yes             | No                                  | No              | Yes               | DuPage County and Cook<br>County          |
| What types of capital facilitie            | es does the     | plan address                        | s?              |                   |   |
| How often is the plan revised              | l/updated :     |                                     |                 |                   |   |
| Habitat Conservation Plan                  | No              | No                                  | -               | _                 |   |
| Economic Development Plan                  | Yes             | No                                  | -               | -                 |   |
| Shoreline Management Plan                  | No              | -                                   | -               | _                 |   |
| Response/Recovery Plannin                  | g               |                                     |                 |                   |   |
| Comprehensive Emergency<br>Management Plan | Yes             | No                                  | -               | -                 | Cook County DHSEM                         |

| Threat and Hazard           | Yes | No | - | _ | Cook County DHSEM |
|-----------------------------|-----|----|---|---|-------------------|
| Identification and Risk     |     |    |   |   |                   |
| Assessment                  |     |    |   |   |                   |
| Terrorism Plan              | Yes | No | - | _ | Cook County DHSEM |
| Post-Disaster Recovery Plan | Yes | No | - | - | Cook County DHSEM |
| Continuity of Operations    | Yes | No | - | - | Cook County DHSEM |
| Plan                        |     |    |   |   |                   |
| Public Health Plans         | Yes | No | - | _ |                   |

| TABLE: FISCAL CAPABILITY                             |                                |  |  |  |
|--|--------------------------------|--|--|--|
| Financial Resources                                  | Accessible or Eligible to Use? |  |  |  |
| Community Development Block Grants                   | No                             |  |  |  |
| Capital Improvements Project Funding                 | Yes                            |  |  |  |
| Authority to Levy Taxes for Specific Purposes        | Yes                            |  |  |  |
| User Fees for Water, Sewer, Gas or Electric Service  | Yes Water and Sewer            |  |  |  |
| Incur Debt through General Obligation Bonds          | Yes                            |  |  |  |
| Incur Debt through Special Tax Bonds                 | No                             |  |  |  |
| Incur Debt through Private Activity Bonds            | No                             |  |  |  |
| Withhold Public Expenditures in Hazard-Prone Areas   | No Hazard Prone Areas          |  |  |  |
| State Sponsored Grant Programs                       | Yes                            |  |  |  |
| Development Impact Fees for Homebuyers or Developers | No                             |  |  |  |
| Other  | No                             |  |  |  |

| TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY                   |            |                            |  |  |
|--|------------|----------------------------|--|--|
| Staff/Personnel Resources  | Available? | Department/Agency/Position |  |  |
| Planners or engineers with knowledge of land development         | Yes        | Public Works               |  |  |
| and land management practices                                    |            | Engineer/Planning          |  |  |
|  |            | Development Service        |  |  |
| Engineers or professionals trained in building or infrastructure | Yes        | Public Works               |  |  |
| construction practices   |            |                            |  |  |
| Planners or engineers with an understanding of natural           | Yes        | Public Works               |  |  |
| hazards  |            |                            |  |  |
| Staff with training in benefit/cost analysis                     | -          |                            |  |  |
| Surveyors  | Yes        | Public Works Engineer      |  |  |
| Personnel skilled or trained in GIS applications                 | Yes        | IT Department              |  |  |
| Scientist familiar with natural hazards in local area            | No         |                            |  |  |
| Emergency manager  | Yes        | Police Department EMA      |  |  |
|  |            | coordinator                |  |  |
| Grant writers  | Yes        | Police Department          |  |  |
|  |            | Accreditation Manager      |  |  |

| TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE               |                         |
|--|-------------------------|
| What department is responsible for floodplain management in your | Building Department and |
| jurisdiction?  | Public Works            |

| Who is your jurisdiction's floodplain administrator?                          | Building Department/Building |
|---|------------------------------|
| (department/position)   | Director                     |
| Are any certified floodplain managers on staff in your jurisdiction?          | No                           |
|   | 7/16/19                      |
| ordinance?  |                              |
| When was the most recent Community Assistance Visit or Community              | May 2017; 5 year CRS Cycle   |
| Assistance Contact?   | Visit                        |
| Does your jurisdiction have any outstanding NFIP compliance violations        | No                           |
| that need to be addressed? If so, please state what they are.                 |                              |
| Do your flood hazard maps adequately address the flood risk within your       | Yes                          |
| jurisdiction? (If no, please state why)                                       |                              |
| Does your floodplain management staff need any assistance or training         | No                           |
| to support its floodplain management program? If so, what type of             |                              |
| assistance/training is needed?  |                              |
| Does your jurisdiction participate in the Community Rating System             |                              |
| (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? | Yes; Class 6 jurisdiction    |
| If not, is your jurisdiction interested in joining the CRS program?           |                              |

| TABLE: COMMUNITY CLASSIFICATIONS             |                |                |                 |  |  |
|--|----------------|----------------|-----------------|--|--|
|  | Participating? | Classification | Date Classified |  |  |
| Community Rating System                      | Yes            | 6              | 3/2018          |  |  |
| Building Code Effectiveness Grading Schedule | Yes            | 4 Res. 3 Com.  | 10/2016         |  |  |
| Public Protection/ISO                        | Yes            | 4, 3           | 2016            |  |  |
| StormReady                                   | Yes            |                |                 |  |  |
| Tree City USA                                | Yes            |                |                 |  |  |

# 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: 0
- 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 | Date                  | Preliminary Damage   |  |  |
|                              | (if applicable)      |                       | Assessment           |  |  |
| Flash Flood                  | -                    | 5/30/2018             | \$50,000 in property |  |  |
|                              |                      |                       | damage               |  |  |
| Flood                        | -                    | 4/17/2019 - 4/19/2019 | No property damage   |  |  |
| Hail                         | -                    | 6/28/2012             | -                    |  |  |
| Blizzard                     | -                    | 2/1/2011 - 2/3/2011   | No property damage   |  |  |
| Lightning                    | -                    | 4/5/2010              | \$10,000 in property |  |  |
|                              |                      |                       | damage.              |  |  |
| Flood                        | -                    | 4/26/2009             | -                    |  |  |
| Severe Weather               | -                    | 8/4/2008              | \$50,000 in property |  |  |
|                              |                      |                       | damage               |  |  |
| Lightning                    | -                    | 5/2/2008              | \$10,000 in property |  |  |
|                              |                      |                       | damage.              |  |  |
| Hail                         | -                    | 3/1/2004              | -                    |  |  |
| Hail                         | -                    | 8/1/2003              | -                    |  |  |

#### **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/Severe Weather:* Multiple events have caused extensive property damage in the area.

*Hail:* This event occurs during thunderstorms, which often cause flooding and severe wind events. Power line, structures, and trees are frequently damaged.

*Tornado/High Winds:* High winds have historically affected residential areas, causing downed trees and downed electrical lines.

**Snow:** Senior citizens and individuals with functional and access needs in the community have historically had issues when there is a large amount of snow or severe winter weather.

*Extreme Cold:* Senior citizen complexes/housing, and those that reside in those facilities are especially vulnerable during extreme cold incidents.

# Hazard Risk Ranking

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

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

## Mitigation Strategies and Actions

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

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

The *Hazard Mitigation Action Plan Matrix Table* below lists the actions that make up the jurisdiction's hazard mitigation plan. The *Mitigation Strategy Priority Schedule Table* identifies the priority for each action.

| TABLE: H | ABLE: HAZARD MITIGATION ACTION PLAN MATRIX  |                  |                               |                   |                       |  |  |
|----------|---|------------------|-------------------------------|-------------------|-----------------------|--|--|
| Status   | Hazards<br>Mitigated  | Objectives Met   | Lead Agencies                 | Estimated<br>Cost | Sources of<br>Funding | Timeline/Projected<br>Completion Date<br>(a) |  |
| Action B | 1.1—Provide Bus   | inesses with Rap | oid Response Fir              | st Aid Kits 1     | o be used On-S        | ite by First                                 |  |
| Respond  | lers during an Em   | ergency          |                               |                   |                       |  |  |
| New      | Extreme Heat,<br>High Wind,<br>Blizzard,<br>Extreme Cold,<br>Tornado,<br>Hazardous<br>Materials<br>Incident | 1, 2, 3, 12, 13  | Bartlett Police<br>Department | TBD               | TBD                   | 2020   |  |
| · · –    | ing indicates con<br>entation within fiv  |                  |                               |                   |                       |  |  |

| TABLE: MI  | TABLE: MITIGATION STRATEGY PRIORITY SCHEDULE |          |        |     |                     |   |              |  |
|--|--|----------|--------|-----|---------------------|---|--------------|--|
|  | Number of<br>Objectives<br>Met               | Benefits | Costs  | · · | Grant-<br>Eligible? | Can Project Be<br>Funded Under<br>Existing<br>Programs/Budgets? | Priority (a) |  |
| 1  | 5  | Medium   | Medium | Yes | Yes                 | Unknown   | High         |  |
| (a) See Chapter 1 for explanation of priorities. |  |          |        |     |                     |   |              |  |

### New Mitigation Actions

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

#### Action B1.1

| National Action   | Provide Businesses with Rapid Response First Aid Kits to   |  |  |  |
|---|--|--|--|--|
| Mitigation Action                                       | be used On-Site by First Responders during an Emergency  |  |  |  |
| Year Initiated  | 2019   |  |  |  |
| Applicable Jurisdiction                                 | Village of Bartlett  |  |  |  |
| Lead Agency/Organization                                | Bartlett Police Department   |  |  |  |
| Supporting Agencies/Organizations                       |  |  |  |  |
| Applicable Goal   | <ul> <li>Protect the lives, health, safety, and property of<br/>the citizens of Cook County from the impacts of<br/>natural hazards.</li> </ul>  |  |  |  |
| Applicable Objective                                    | <ul> <li>Eliminate or minimize disruption of local government operations caused by natural hazards through all phases of emergency management.</li> <li>Increase the resilience of (or protect and maintain) infrastructure and critical facilities.</li> <li>Consider the impacts of natural hazards on future land uses in the planning area, including possible impacts from climate change.</li> <li>Reduce natural hazard-related risks and vulnerability to potentially isolated populations within the planning area.</li> <li>Encourage hazard mitigation measures that result in the least adverse effect on the natural environment and that use natural processes.</li> </ul> |  |  |  |
| Potential Funding Source                                | TBD  |  |  |  |
| Estimated Cost  | ТВО  |  |  |  |
| Benefits (loss avoided)                                 | Enhanced Citizen Response  |  |  |  |
| Projected Completion Date                               | 2020   |  |  |  |
| Priority and Level of Importance (Low,<br>Medium, High) | High Priority  |  |  |  |
| Benefit Analysis (Low, Medium, High)                    | Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.   |  |  |  |
| Cost Analysis (Low, Medium, High)                       | Medium—The project could be implemented with<br>existing funding but would require a re-apportionment of<br>the budget or a budget amendment, or the cost of the<br>project would have to be spread over multiple years  |  |  |  |
| Actual Completion Date                                  |  |  |  |  |

Recommended Mitigation Action/Implementation Plan and Project Description

| Action/Implementation Provide businesses, through our Bartlett PD Business Academy w |   |  |  |  |
|--|---|--|--|--|
| Plan and Project   | response first aid kits on site to be utilized by first responders in response to |  |  |  |
| Description:   | human-caused or natural disaster casualty situations.                             |  |  |  |

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

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

## **Ongoing Mitigation Actions**

Bartlett has no ongoing actions at this time.

## Completed Mitigation Actions

Bartlett has no completed actions at this time.

# Future Needs to Better Understand Risk/Vulnerability

None at this time.

## Additional Comments

None at this time.

## HAZUS-MH Risk Assessment Results

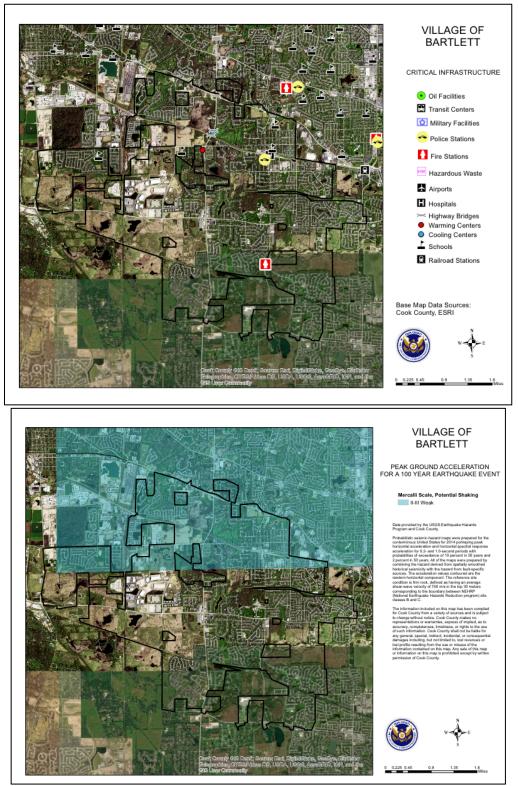
| BARTLETT EXISTING CONDITIONS                    |                 |  |  |  |  |
|---|-----------------|--|--|--|--|
| 2010 Population                                 | 41,208          |  |  |  |  |
| Total Assessed Value of Structures and Contents | \$6,463,810,000 |  |  |  |  |
| Area in 100-Year Floodplain                     | 351.791 acres   |  |  |  |  |
| Area in 500-Year Floodplain                     | 502.558 acres   |  |  |  |  |
| Number of Critical Facilities                   | 39              |  |  |  |  |

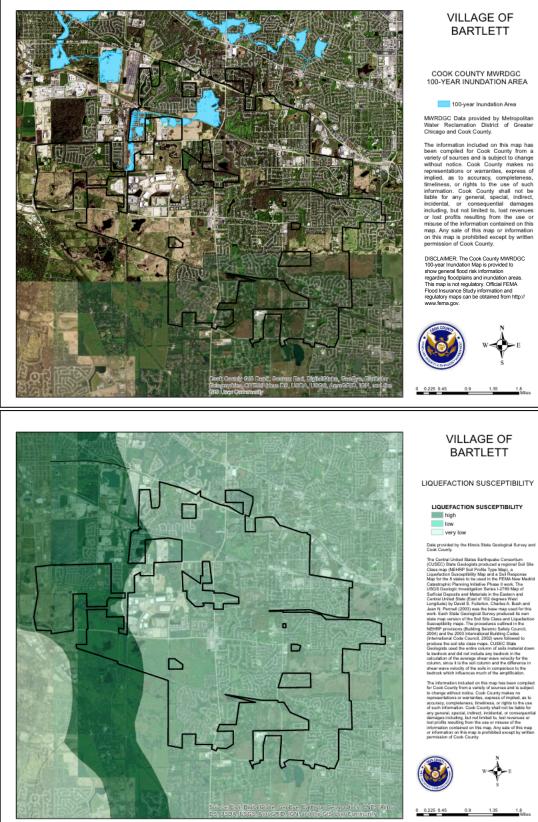
| HAZARD EXPOSURE IN BARTLETT |            |           |                         |                 |                 |                              |  |
|-----------------------------|------------|-----------|-------------------------|-----------------|-----------------|------------------------------|--|
|                             | Number Exp | posed     | Value Exposed to Hazard |                 |                 | % of Total                   |  |
|                             | Population | Buildings | Structure               | Contents        | Total           | Assessed<br>Value<br>Exposed |  |
| Dam Failur                  | e          |           |                         |                 |                 |                              |  |
| Buffalo<br>Creek            | 0          | 0         | \$0                     | \$0             | \$0             | 0.00%                        |  |
| Touhy                       | 0          | 0         | \$0                     | \$0             | \$0             | 0.00%                        |  |
| U. Salt Cr.<br>#2           | 0          | 0         | \$0                     | \$0             | \$0             | 0.00%                        |  |
| U. Salt Cr.<br>#3           | 0          | 0         | \$0                     | \$0             | \$0             | 0.00%                        |  |
| U. Salt Cr.<br>#4           | 0          | 0         | \$0                     | \$0             | \$0             | 0.00%                        |  |
| Flood                       |            |           |                         |                 |                 |                              |  |
| 100-Year                    | 660        | 1         | \$123,319,000           | \$1,210,000     | \$124,529,000   | 1.92%                        |  |
| 500-Year                    | 660        | 2         | \$260,000,000           | \$1,261,000     | \$261,261,000   | 4.04%                        |  |
| Tornado                     |            |           |                         |                 |                 |                              |  |
| 100-Year                    | -          | -         | \$353,584,676           | \$214,392,943   | \$567,977,916   | 8.79%                        |  |
| 500-Year                    | -          | -         | \$1,172,585,479         | \$1,430,943,562 | \$2,603,529,041 | 40.27%                       |  |

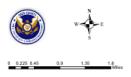
ESTIMATED PROPERTY DAMAGE VALUES IN BARTLETT

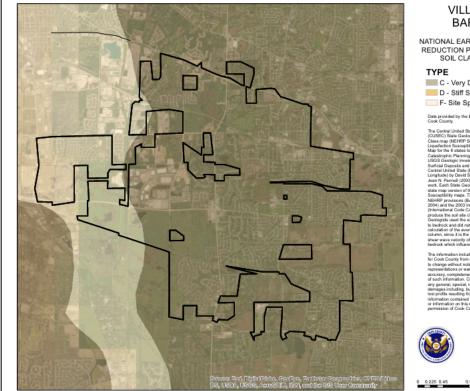
|                          | Estimated Damage | ard             | % of Total      |                           |  |  |  |  |
|--------------------------|------------------|-----------------|-----------------|---------------------------|--|--|--|--|
|                          | Building         | Contents        | Total           | Assessed Value<br>Damaged |  |  |  |  |
| Dam Failure              |                  |                 |                 |                           |  |  |  |  |
| Buffalo Creek            | 0                | \$0             | \$0             | 0.00%                     |  |  |  |  |
| Touhy                    | 0                | \$0             | \$0             | 0.00%                     |  |  |  |  |
| U. Salt Cr. #2           | 0                | \$0             | \$0             | 0.00%                     |  |  |  |  |
| U. Salt Cr. #3           | 0                | \$0             | \$0             | 0.00%                     |  |  |  |  |
| U. Salt Cr. #4           | 0                | \$0             | \$0             | 0.00%                     |  |  |  |  |
| Earthquake               | Earthquake       |                 |                 |                           |  |  |  |  |
| 1909 Historical<br>Event | \$1,379,655.95   | \$373,094.17    | \$1,752,750.12  | 0.027%                    |  |  |  |  |
| Flood                    | Flood            |                 |                 |                           |  |  |  |  |
| 100-Year                 | \$123,319,000    | \$1,210,000     | \$124,592,000   | 1.93%                     |  |  |  |  |
| 500-Year                 | \$260,000,000    | \$1,261,000     | \$261,261,000   | 4.04%                     |  |  |  |  |
| Tornado                  |                  |                 |                 |                           |  |  |  |  |
| 100-Year                 | \$353,584,676    | \$214,392,943   | \$567,977,916   | 8.79%                     |  |  |  |  |
| 500-Year                 | \$1,172,585,479  | \$1,430,943,562 | \$2,603,529,041 | 40.27%                    |  |  |  |  |

# Hazard Mapping









#### VILLAGE OF BARTLETT

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 Illinois State Geological Survey and Cook County.

Data provided by the litrois studie Gaucegical Survey and Cook County The Cartral Uhited States Earthquake Consortium (CUSEC) State Caleogicals motioned a regional Sol Boo Lagar map in Ertergetike Theory and the States and the States and States and States and States (CUSEC) State Countergetike Places II and States (Custor) and States II and States II and States (Custor) and States II and States II and States (Custor) and States (Custor) and States II and Custor) (Custor) States (Custor) and States II and Custor) (Custor) (Custor

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