

Bellwood

Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
Michael Sabel, Chief 3200 Washington Blvd Bellwood, IL 60104 708-698-2295 msabel@vil.bellwood.il.us	Timothy Wheeler, Lieutenant 3200 Washington Blvd Bellwood, IL 60104 630-209-0902 twheeler@vil.bellwood.il.us

Jurisdiction Profile

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

Date of Incorporation: 1900

Current Population: The 2020 U.S. Census population was 18,792. The 2022 U.S. Census estimate indicated the population was 18,081.

Population Growth: The overall population has decreased 5.37% percent between 2016 and 2022.

Location and Description: Bellwood is a suburb of Chicago in Cook County, located 14 miles directly west of downtown Chicago. Suburbs adjacent to Bellwood include: Stone Park, Northlake, and Melrose Park to the north, Broadview and Westchester to the south, Maywood to the east, and Berkeley and Hillside to the east. Interstate 290 runs across the southern border of Bellwood and intersects with 294 just 2 miles west of the Village boundaries. Bellwood is ideally located 12 minutes from Chicago and a mere 13 minutes from O'Hare Airport. According to the U.S. Census Bureau, Bellwood has a total land area of 2.40 square miles.

Brief History: Consisting primarily of level prairie, the area now known as Bellwood was mainly farmland until the early 1890s when the first two subdivisions were established. The first subdivision attracted a handful of businesses, including several taverns. Tavern owners were the first to push for incorporation in response to dry Maywood's attempt to annex the subdivision. The village of Bellwood was incorporated on May 21, 1900, taking the name of a second early subdivision, Bellwood. Bellwood's population grew steadily between 1900 and 1930. The 1910 population of 943 doubled by 1920 as more people, many of German and Russian descent, moved to the village. The 1926 annexation of land west of Mannheim Road, plus continued migration, accounted for the jump to 4,991 residents in 1930. After World War II, large industries, several of which became major employers in the near western suburbs, located in the eastern part of the village along the Indiana Harbor Belt tracks. Rail passenger service, available via the Chicago, Aurora & Elgin Railway and the Chicago & North Western Railway, encouraged residential development in other parts of Bellwood. The completion of the Eisenhower Expressway in the 1950s made Bellwood's location even more attractive for prospective commuters. The population jumped to 8,746 in 1950, then more than

doubled to 20,729 in 1960, and included people of Italian, Serbian and Polish descent. Construction slowed considerably as little vacant land remained, and the population rose in 1970 to 22,096 residents. In the 1960s, Bellwood took great pride in the race to the moon by watching native son and astronaut Eugene Cernan travel to space several times before his spectacular landing on the moon in the early '70s. His footprints are the last ones left on the lunar surface. Cernan was raised on the 900 block of Marshall Avenue. In his autobiography, "Last Man on the Moon," he described his affection for Bellwood and noted that the small size of his family home provided excellent training for the cramped quarters of a lunar module. The 1970s brought racial change and involvement in a U.S. Supreme Court case. In 1975, Bellwood filed a lawsuit accusing a local real estate firm of racial steering. Four years later, a landmark ruling by the Supreme Court granted municipalities the legal right to use testers and to sue when discrimination occurred. Bellwood's black population grew from 1.1 percent in 1970 to 35 percent in 1980 and to 70 percent in 1990. Today, Bellwood, with its many brick bungalows and ranch and Georgian homes, has matured. But in many respects it remains the largely residential suburb that it has been for the last 50 years.

Climate: The climate in the Village of Bellwood is typical for the mid-west. Average rainfall is 32 inches and the average snow fall is 24 inches annually. The July high temperature is 83 degrees and the January low temperature is 11 degrees. The comfort index, which is based on humidity during hot months, is 46, which is close to the national average of 44.

Governing Body Format: The Village of Bellwood is governed by a Mayor, Clerk and six trustees. This body of Government will assume the responsibility for the adoption and implementation of this plan. It consists of nine departments including: Bellwood Office of Emergency Management, Building, Community Development/Human Resources, Finance, Fire, Police, Public Services, Water, Zoning. The Village of Bellwood's seven committees assist the mayor and village board in developing and reviewing various policies.

Development Trends: New development trends can be characterized as low. The community is landlocked with little to no room for expansion. Redevelopment is the primary focus of the Village Bellwood. Plans for improving the Mannheim road corridor and St. Charles road area are currently underway. The village is serviced by a Metra railroad station with commuter service to Chicago. In November 2011, Union Pacific Railroad announced plans to renovate and upgrade Bellwood's Metra station and add a third rail line. The project, estimated at \$4 million, was expected to be completed by the fall of 2012 at no cost to residents.

Changes in Community Priorities: Currently working with a consultant on Bellwood's Climate Resiliency Plan.

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 *Administrative and Technical Capability Table* below. Information on the community's National Flood Insurance Program (NFIP) compliance is presented

in the *National Flood Insurance Program Compliance Table* below. Classifications under various community mitigation programs are presented in the *Community Classifications Table* below.

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinances & Requirements					
Building Code	Yes	No	No	Yes	IBC 2006 11-26-08
Zonings	Yes	No	No	Yes	BMC, Title 15, Chapter 156 3-14-07
Subdivisions	Yes	No	No	No	BMC, Title 15, Chapter 154, 6-20-07
Stormwater Management	Yes	No	Yes	Yes	BMC, Title 15, Ordinance 11-35 8-17-11
Post Disaster Recovery	Yes	No	No	No	N/A
Real Estate Disclosure	Yes	No	Yes	Yes	Chapter 101 Village of Bellwood Municipal Code 1-24-07
Growth Management	Yes	No	No	No	N/A
Site Plan Review	Yes	No	No	No	Chapter 154 Village of Bellwood Municipal Code 6-20-07
Public Health and Safety	Yes	No	Yes	Yes	BMC, Title 9, Chapter 96, 9-18-13
Environmental Protection	Yes	No	No	No	BMC, Title 9, Chapter 100
Planning Documents					

General or Comprehensive Plan	Yes	No	No	No	Ordinance 13-29, 11-20-13
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					N/A
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	Yes	No	No	No	Chapter 152 Village of Bellwood Municipal code 5-9-07 Amended 7-6-08
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	Yes	No	N/A
Shoreline Management Plan	No	No	No	No	N/A
Response/Recovery Planning					
Comprehensive Emergency Management Plan	No	No	Yes	Yes	EMRS
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	No	No	Yes	No	EMRS
Post-Disaster Recovery Plan	No	No	No	No	
Continuity of Operations Plan	No	No	Yes	No	EMRS
Public Health Plans	No	No	Yes	No	Cook County Public Health

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	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	Yes
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	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	Hancock Engineering
Engineers or professionals trained in building or infrastructure construction practices	Yes	Hancock Engineering
Planners or engineers with an understanding of natural hazards	No	N/A
Staff with training in benefit/cost analysis	No	N/A
Surveyors	No	N/A
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	N/A
Emergency manager	Yes	Michael Sabel - Bellwood Homeland Security and Emergency Management
Grant writers	Yes	Tonita LeShore

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)	Village Comptroller (by ordinance)
Are any certified floodplain managers on staff in your jurisdiction?	None
What is the date of adoption of your flood damage prevention ordinance?	05-09-07
When was the most recent Community Assistance Visit or Community Assistance Contact?	May 25, 2011
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, floodplain management training.
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

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 review, GIS, inspections, engineering capability.
- The Community Floodplain Administrator is a Certified Floodplain Manager.
- Our community teaches property owners or other stakeholders about the importance of flood insurance through public outreach events, workshops, or seminars.
- Our community enforces local floodplain regulations and monitors compliance.
- Our floodplain development regulations meet or exceed 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:

152.01 Definitions

SUBSTANTIAL IMPROVEMENT. Any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure either before the improvement or repair is started; or if the structure has been damaged, and is being restored, before the damage occurred. For the purposes of this definition, **SUBSTANTIAL IMPROVEMENT** is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure. The term does not, however, include either:

- (1) Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions; or
- (2) Any alteration of a structure listed on the National Register of Historic Places or a state inventory of historic places.

152.30 Purpose

This subchapter is enacted pursuant to the police powers granted to the village by ILCS Ch. 65, Act 5, §§ 1-2-1, 11-12-12, 11-30-8, and 11-31-2. The purpose of this subchapter is to maintain the village's eligibility in the National Flood Insurance Program; to minimize potential losses due to periodic flooding including loss of life, loss of property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety, and general welfare; and to preserve and enhance the quality of surface waters, conserve economic and natural values, and provide for the wise utilization of water and related land resources. This subchapter is adopted in order to accomplish the following specific purposes:

- (A) To meet the requirements of ILCS Ch. 615, Act 5, § 18(g), being an act in relation to the regulation of the rivers, lakes and streams of the state, approved June 10, 1911, as amended.
- (B) To assure that new development does not increase the flood or drainage hazards to others, or create unstable conditions susceptible to erosion.
- (C) To protect new buildings and major improvements to buildings from flood damage.
- (D) To protect human life and health from the hazards of flooding.
- (E) To lessen the burden on the taxpayer for flood control projects, repairs to flood-damaged public facilities and utilities, and flood rescue and relief operations.
- (F) To make federally subsidized flood insurance available for property in the village by fulfilling the requirements of the National Flood Insurance Program.
- (G) To comply with the rules and regulations of the National Flood Insurance Program, codified as 44 CFR 59 through 79, as amended.
- (H) To protect, conserve, and promote the orderly development of land and water resources.

(I) To preserve the natural hydrologic and hydraulic functions of watercourses and floodplains and to protect water quality and aquatic habitats.

(J) To preserve the natural characteristics of stream corridors in order to moderate flood and storm water impacts, improve water quality, reduce soil erosion, protect aquatic and riparian habitat, provide recreational opportunities, provide aesthetic benefits and enhance community and economic development.

(Ord. 7-28, passed 5-9-07 ; Am. Ord. 8-70, passed 7-16-08)

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	--	--
Building Code Effectiveness Grading Schedule	Yes	4	3-1-13
Public Protection/ISO	Yes	4	3-1-13
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	No	N/A	N/A

Opportunities to Expand and Improve Capabilities

Opportunities to expand and improve capabilities include improving GIS capability, improving/updating building codes and ordinances, and assistance with funding sources for meeting local match requirements.

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 Comprehensive Plan.
- 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: 240 (231 Single Family, 5 Two-Four Family Residence, 2 Other Residential, 2 Business-Nonresidential)
- Number of FEMA-Identified Severe Repetitive Loss Properties: 5 (5 Single Family)
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

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
Extreme Cold/Snow	-	1/6/2014	-
Severe Storms/Wind/Flooding	DR-4116	4/26/2013	-
Winter Storm/Snow	DR-1960	1/30/2013	-
Winter Storm/Snow	DR-1960	1/31/2011	-
Storms/Flooding	DR-1935	7/19/2010	-
Storms/Flooding	DR-1800	9/13/2008	-

Storms/Flooding	DR-1729	8/20/2007	-
Winter Storm	EM-3161	12/11/2000	-
Winter Storm	EM-3124	1/1/1999	-
Floods	DR-1188	8/16/1997	-
Floods	DR-1129	7/17/1996	-

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.

Flood: We have experienced roadway flooding at Main Street. Village Hall has also experienced flooding due to the creek nearby. In addition, we have experienced flooding along the creek onto the highway. The village is uniquely vulnerable to flooding;

- The entire residential area west of Mannheim Road is under-served by storm sewer capacity.
- The area of 23rd & Grant is under-served by storm sewer capacity.
- The Village has an extremely large floodplain area susceptible to Addison Creek flooding.
- Mannheim Road storm sewers have inadequate capacity.
- Washington Blvd. floods regularly- the Village Hall is on Washington and has flooded numerous times.
- The condition of the sanitary and storm sewers causes a great deal of basement flooding due to storm water migration into the sanitary sewer system.
- 25th and Van Buren Area is under-served by storm sewer capacity.

Extreme Heat: Our town is particularly susceptible to the impacts of extreme heat because of our community's large elderly population ([10% are 65 or older](#)).

Extreme Cold: Similar to the case of extreme heat, our large elderly population renders our town vulnerable to extreme cold.

Severe Weather, Wind, and Tornado: In 2006, trees and tree limbs were blown down at the intersection of 22nd and Madison due to severe wind. The village has an existing warning system, but needs one or more with better coverage- upgrades and/or new. High winds have removed roofs on 25th and Washington. The senior housing facilities- Georgina Lane, Bellwood Senior Apartments, Bellwood Senior Suites, do not have backup generators, which could leave seniors vulnerable to outages caused by severe weather.

Earthquake: While no occurrence has happened, given the magnitude of the impact an earthquake would have on the area, public preparedness through awareness on preventative measures can be increased. While Bellwood is on a fault line, it may not be excessively vulnerable to earthquakes. The village's elevated water tank, water mains (over 80 years old), and certain aging structures (village hall, public works and water pumping stations) may be vulnerable.

Tornado: Tornado shelters are needed; daycares and schools may not have adequate tornado shelters.

Severe Winter Weather: The village has 3 senior housing facilities. Georgina Lane, Bellwood Senior Apartments, Bellwood Senior Suites do not have backup generators, which could leave seniors vulnerable to outages caused by severe winter weather.

Indicator	Number	Percent
Families in poverty	426	7.5%
People with disabilities	2,495	10.1%
People over 65 years	3,265	13.1%

People under 5 years	1,772	7.1%
People of color	23,349	93.7%
Black	16,569	66.5%
Native American	64	0.3%
Hispanic	6,216	24.9%
Difficulty with English	1,412	6.1%
Households with no car	757	9.6%
Mobile homes	32	0.4%

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.

Our jurisdiction has seen major changes in development that includes Bellwood Senior Apartments on Washington and 25th (built in 2023). The absence of backup generators may increase vulnerability to severe weather impacts for some communities.

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

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	Not Applicable
Drought	Not Applicable
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated

Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	No Change is Anticipated
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	No Change is Anticipated
Tornado	No Change is Anticipated
Wildfire (Wildfire Smoke)	Not Applicable

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

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	Not Applicable
Drought	Not Applicable
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	No Change is Anticipated
Wildfire (Wildfire Smoke)	Not Applicable

Our jurisdiction is in the first phase of the Bellwood Gateway Project (St. Charles Road). This project includes mixed-use developments subject to potential flooding and severe weather damage.

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	Flood
2	Tornado
3	Severe Winter Weather
4	Severe Weather
5	Earthquake
6	Drought
7	Dam Failure
<i>Note: Ranking modified per jurisdiction's request to address major risks not calculated by the established methodology.</i>	

New Mitigation Actions

The following are new mitigation actions created during the 2024 update.

Action B-5.18

Mitigation Action #18: For residential areas West of Mannheim Road, reduction of storm water infiltration to the sanitary sewer system by replacing or lining existing sanitary sewers and storm sewers.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,9,12			
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:	For residential areas West of Mannheim Road, reduction of storm water infiltration to the sanitary sewer system by replacing or lining existing sanitary sewers and storm sewers.
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 B-5.19

Mitigation Action #19: The area of 23rd Avenue and Grant Avenue, localized flooding will be mitigated by increasing storm sewer sizes and capacity and by providing storm water detention/retention facilities.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)

			Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)		
Year Initiated	2025				
Applicable Jurisdiction	Village of Bellwood				
Applicable Goal	1,2,3				
Applicable Objective	1,2,3,9,12				
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:	The area of 23rd Avenue and Grant Avenue, localized flooding will be mitigated by increasing storm sewer sizes and capacity and by providing storm water detention/retention facilities.				
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 B-5.20

Mitigation Action #20: For the entire 25th Avenue and Van Buren Street area, localized flooding will be mitigated by increasing storm sewer sizes and capacity.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)

			Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)		
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,9,12			
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:		For the entire 25th Avenue and Van Buren Street area, localized flooding will be mitigated by increasing storm sewer sizes and capacity.			
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 B-5.21

Mitigation Action #21: For the entirety of Mannheim Road in the village limits, localized flooding will be mitigated by increasing storm sewer sizes and capacity.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,9,12			
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:	For the entire residential area West of Mannheim Road, localized flooding will be mitigated by increasing storm sewer sizes and capacity.
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 B-5.22

Mitigation Action #22: For the entirety of Washington Boulevard within the village limits, localized flooding will be mitigated by increasing storm sewer sizes and capacity.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)

			FEMA Public Assistance (PA)		
Year Initiated	2025				
Applicable Jurisdiction	Village of Bellwood				
Applicable Goal	1,2,3				
Applicable Objective	1,2,3,9,12				
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:	For the entirety of Washington Boulevard within the village limits, localized flooding will be mitigated by increasing storm sewer sizes and capacity.				
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 B-5.23

Mitigation Action #23: For the entire residential area West of Mannheim Road, localized flooding will be mitigated by increasing storm sewer sizes and capacity and by providing stormwater detention/retention facilities.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)

			Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)		
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,9,12			
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:		For the entire residential area West of Mannheim Road, localized flooding will be mitigated by increasing storm sewer sizes and capacity and by providing stormwater detention/retention facilities..			
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 B-5.24

Mitigation Action #24: For the Village's three (3) senior housing facilities (Georgina Lane, Bellwood Senior Apartments, and Bellwood Senior Suites), assistance with providing backup generators will be sought.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Earthquake Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) Tornado
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		2,3,8,12			
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)		High			
Action/Implementation Plan and Project Description:		For the Village's three (3) senior housing facilities (Georgina Lane, Bellwood Senior Apartments, and Bellwood Senior Suites), assistance with providing backup generators will be sought.			
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority		N			

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	
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Action B-5.25

Mitigation Action #25: For the village's early warning system, an upgrade to one or more with better coverage will be pursued.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Earthquake Tornado
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,5,12			
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)		High			
Action/Implementation Plan and Project Description:		For the village's early warning system, an upgrade to one or more with better coverage will be pursued.			

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 B-5.26

Mitigation Action #26: The village will seek assistance providing dedicated tornado shelters for village schools and daycare centers.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Tornado
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,12			
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)	High
Action/Implementation Plan and Project Description:	The village will seek assistance providing dedicated tornado shelters for village schools and daycare centers.
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 B-5.27

Mitigation Action #27: For the village's three (3) water pumping stations (50th avenue; Eastern Avenue & St. Charles Place; Eastern & Madison Street), assistance with providing backup generators will be sought.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)

			Community Development Block Grant (CDBG) FEMA Public Assistance (PA)		
Year Initiated	2025				
Applicable Jurisdiction	Village of Bellwood				
Applicable Goal	1,2				
Applicable Objective	1,2,9,12				
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:	For the village's three (3) water pumping stations (50th avenue; Eastern Avenue & St. Charles Place; Eastern & Madison Street), assistance with providing backup generators will be sought.				
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 B-5.28

Mitigation Action #28: For the Village's storm pumping station at Cernan Drive and Harrison Street, assistance with providing a backup generator will be sought.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source:	Estimated Projected Completion Date:	Hazard(s) Mitigated: Flood (Riverine, Urban, Coastal/Shoreline)

			State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program FEMA Public Assistance (PA)	Long-term	
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,9,12			
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:		For the Village's storm pumping station at Cernan Drive and Harrison Street, assistance with providing a backup generator will be sought.			
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 B-5.29

Mitigation Action #29: Upgrade/expand the village hall HVAC system					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: State Special Funds Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold)
Year Initiated		2025			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1,2,3			
Applicable Objective		1,2,3,12			
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:		Because the Bellwood Village Hall acts as a heating/cooling center for disadvantaged residents during severe winter or summer weather, assistance with upgrading/expanding the village hall HVAC system will be sought.			

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

During the 2024 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

Action B-5.4

Mitigation Action #B - 5.4: Consider Participation in the Community Rating System (CRS) program.					
Lead Agency/Department Organization: Building Department	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Flood
Year Initiated	2014				
Applicable Jurisdiction	Village of Bellwood				
Applicable Goal	1, 2, 3				
Applicable Objective	1, 3, 5, 6, 9, 10, 11				
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:	Consider Participation in the Community Rating System (CRS) program				
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority	X				

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	
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Action B-5.6

Mitigation Action #B - 5.6: Participate in Storm Ready Program.					
Lead Agency/Department Organization: Bureau of Emergency Management	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund, NWS	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: Severe Weather, Severe Winter Weather, Flood, Tornado
Year Initiated	2014				
Applicable Jurisdiction	Village of Bellwood				
Applicable Goal	1, 2, 3				
Applicable Objective	1, 2, 5, 8, 11				
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)	Medium				
Action/Implementation Plan and Project Description:	Participate in Storm Ready Program				
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;	X				

R = Want Removed from Annex; X = No Action Taken/Delayed	
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Action B-5.9

Mitigation Action #B - 5.9: Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.					
Lead Agency/Department Organization: Village of Bellwood Administration	Supporting Agencies/ Organizations:	Estimated Cost: High	Potential Funding Source: BRIC, HMGP	Estimated Projected Completion Date: Long-term (depending on funding)	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1, 2, 3			
Applicable Objective		7, 13			
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)		High			
Action/Implementation Plan and Project Description:		Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.			
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 B-5.10

Mitigation Action #B 5.10: Continue to support the countywide actions identified in this plan.					
Lead Agency/Department Organization: Village of Bellwood Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short and long-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		All			
Applicable Objective		All			
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:					
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 B-5.11

Mitigation Action #B - 5.11: Actively participate in the plan maintenance strategy identified in this plan.					
Lead Agency/Department Organization: EMRS, Village of Bellwood Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		1, 2			
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)		Low			
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			

Action B-5.13

Mitigation Action #B - 5.13: Utilize storm sewer assessment to inform and implement flood mitigation projects and installation of storm sewers.					
Lead Agency/Department Organization: Bellwood PW	Supporting Agencies/ Organizations: Bellwood - HS-EMA	Estimated Cost: High	Potential Funding Source: BRIC, HMGP, General Fund	Estimated Projected Completion Date: 18 months	Hazard(s) Mitigated: Flood, Ice Storms
Year Initiated		2019			
Applicable Jurisdiction		Bellwood - HS- EMA			
Applicable Goal		1, 2, 3, 4, 5, 6			
Applicable Objective		9			
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 Priority			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Current rainfall taxes existing infrastructure and routinely backs up / causes an impact in response maintenance / and impedes traffic and hinders both residential and commercial properties			
Action/Implementation Plan and Project Description:		Storm sewer assessment has been conducted with findings that indicate current infrastructure and capacity is substandard for size of municipality			
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		X			

Action B-5.15

Mitigation Action #B - 5.15: Implement Addison Creek Channel Improvements					
Lead Agency/Department Organization: MWRD	Supporting Agencies/Organizations: Village of Bellwood	Estimated Cost: \$43,400,000	Potential Funding Source: BRIC, HMGP	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flood
Year Initiated		2019			
Applicable Jurisdiction		Village of Bellwood			
Applicable Goal		2, 3			
Applicable Objective		9			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		Unknown			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Unknown			
Action/Implementation Plan and Project Description:		<p>2019: Executed intergovernmental agreements with all six villages. Final Design. Right-of-way acquisition in progress.</p> <p>ID: ADCR-6B Contract: 11-187-3F Watershed: Lower Des Plaines Location: Northlake, Melrose Park, Stone Park, Bellwood, Westchester, and Broadview, IL Improves channel conveyance through channel improvements from Northlake to Broadview that include open channel, soldier piles wall, articulated concrete blocks, gabions, and channel clearing. Removal of 3 bridges along Harrison St. at 30th Ave., 31st Ave., and 32nd Ave.</p>			
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		O			

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

Completed Actions

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

Completed Action Items
Identify Floodplain Manager
Complete Addison Creek Project
Maintain compliance and 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.
Improve the Addison Creek Reservoir
West Side Flood Mitigation Phase 1

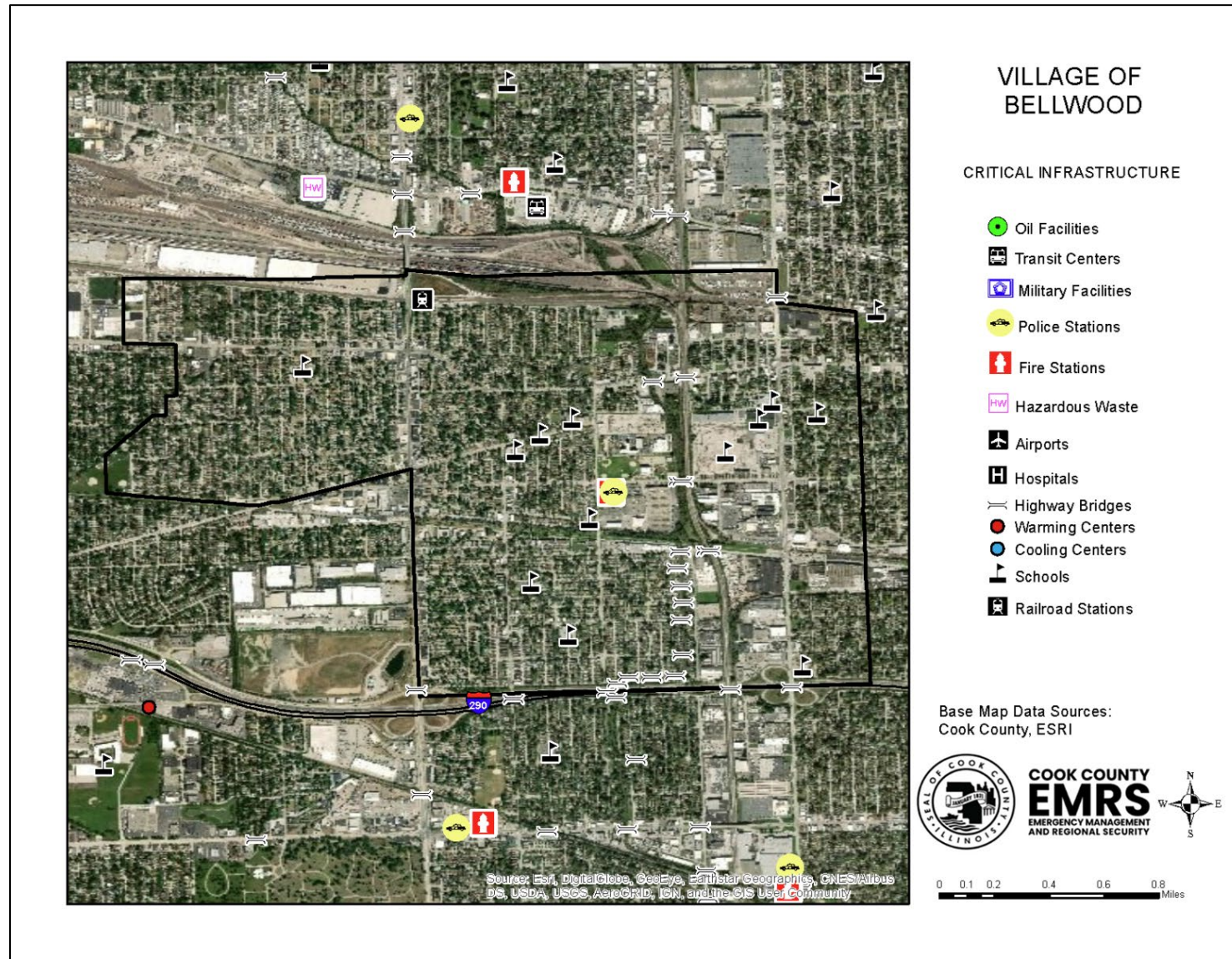
Future Needs to Better Understand Risk/Vulnerability

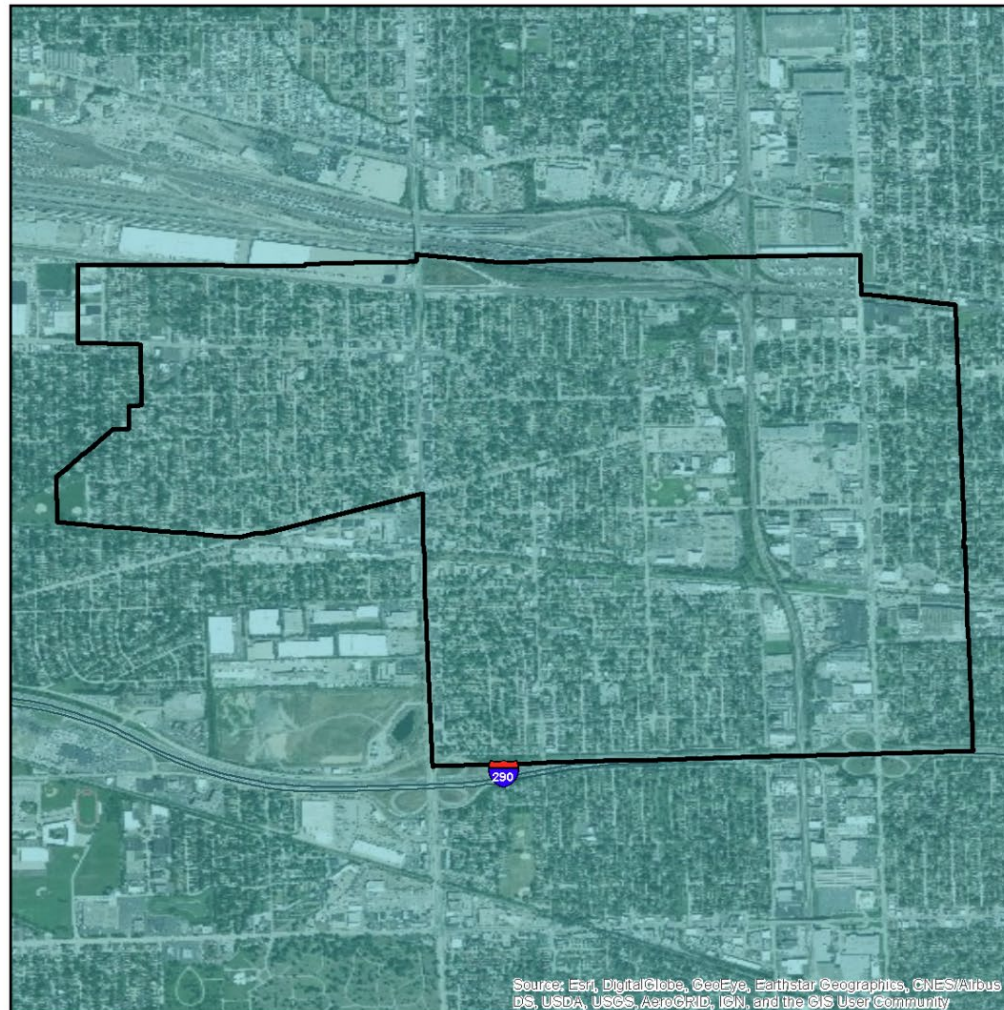
Nothing new reported.

Additional Comments

No additional comments at this time.

Hazard Mapping





VILLAGE OF BELLWOOD

PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

Mercalli Scale, Potential Shaking

II-III Weak

Data provided by the USGS Earthquake Hazards Program and Cook County.

Probabilistic seismic-hazard maps were prepared for the conterminous United States for 2014 portraying peak horizontal acceleration and horizontal spectral response acceleration for 0.2- and 1.0-second periods with probabilities of exceedance of 10 percent in 50 years and 2 percent in 50 years. All of the maps were prepared by combining the hazard derived from spatially smoothed historical seismicity with the hazard from fault-specific sources. The acceleration values contoured are the random horizontal component. The reference site condition is firm rock, defined as having an average shear-wave velocity of 760 m/s in the top 30 meters corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction Program) site classes B and C.

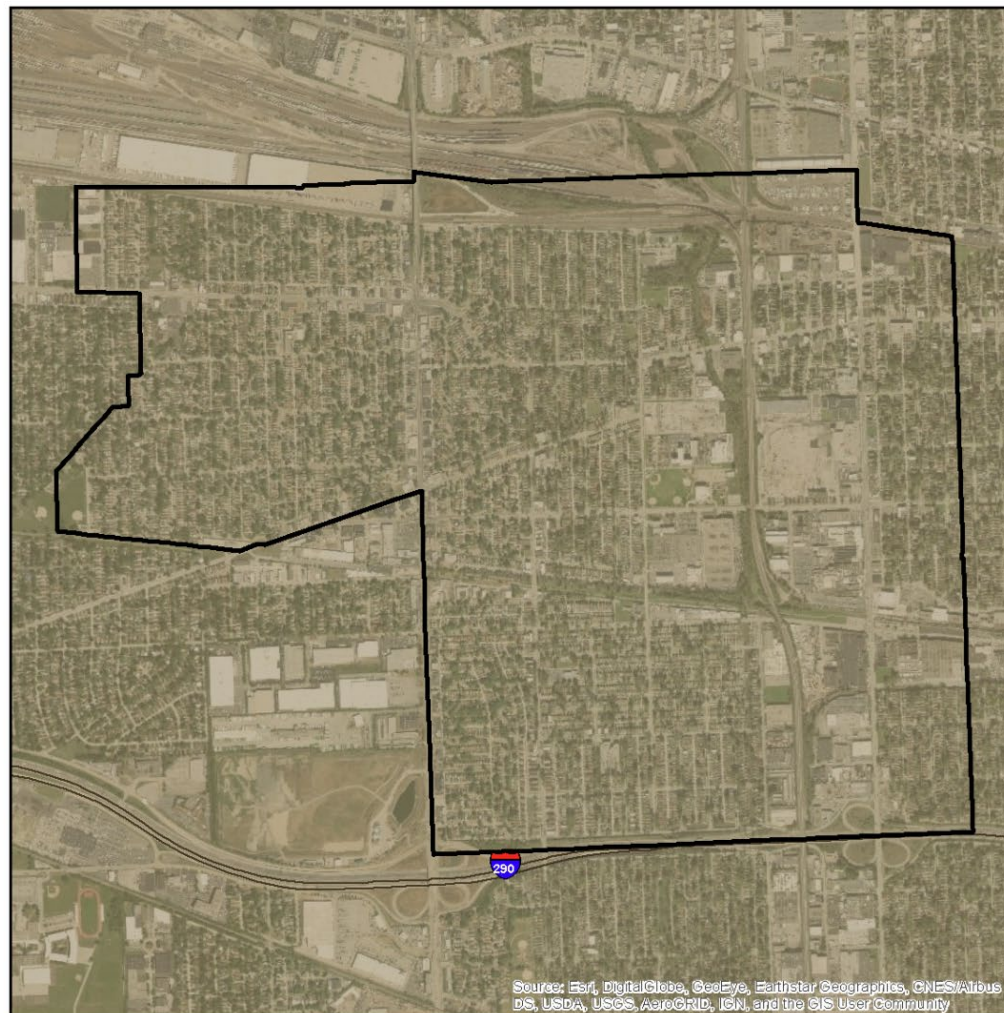
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COOK COUNTY
EMRS
EMERGENCY MANAGEMENT
AND REGIONAL SECURITY



0 0.1 0.2 0.4 0.6 0.8 Miles



VILLAGE OF BELLWOOD

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 States (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.

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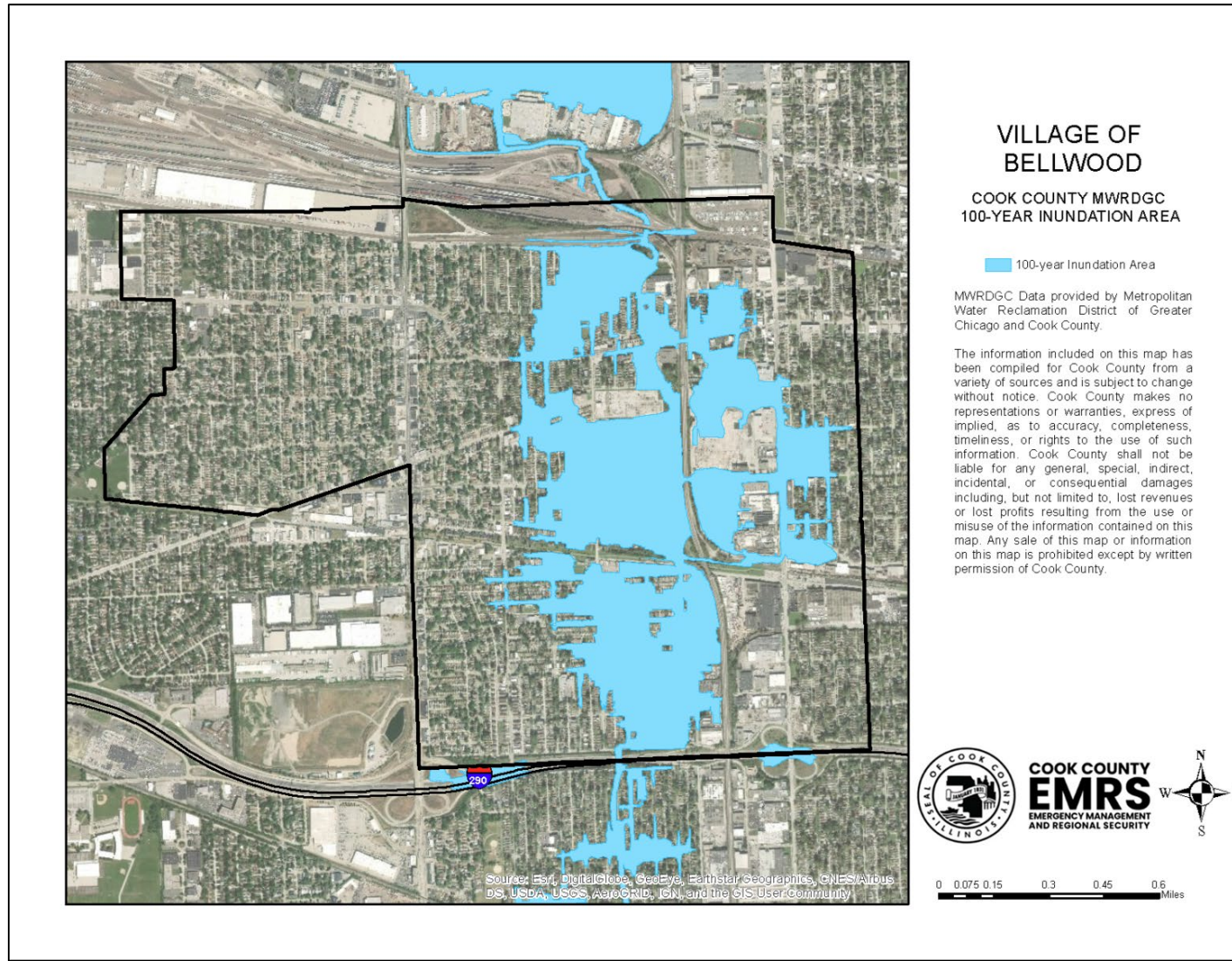


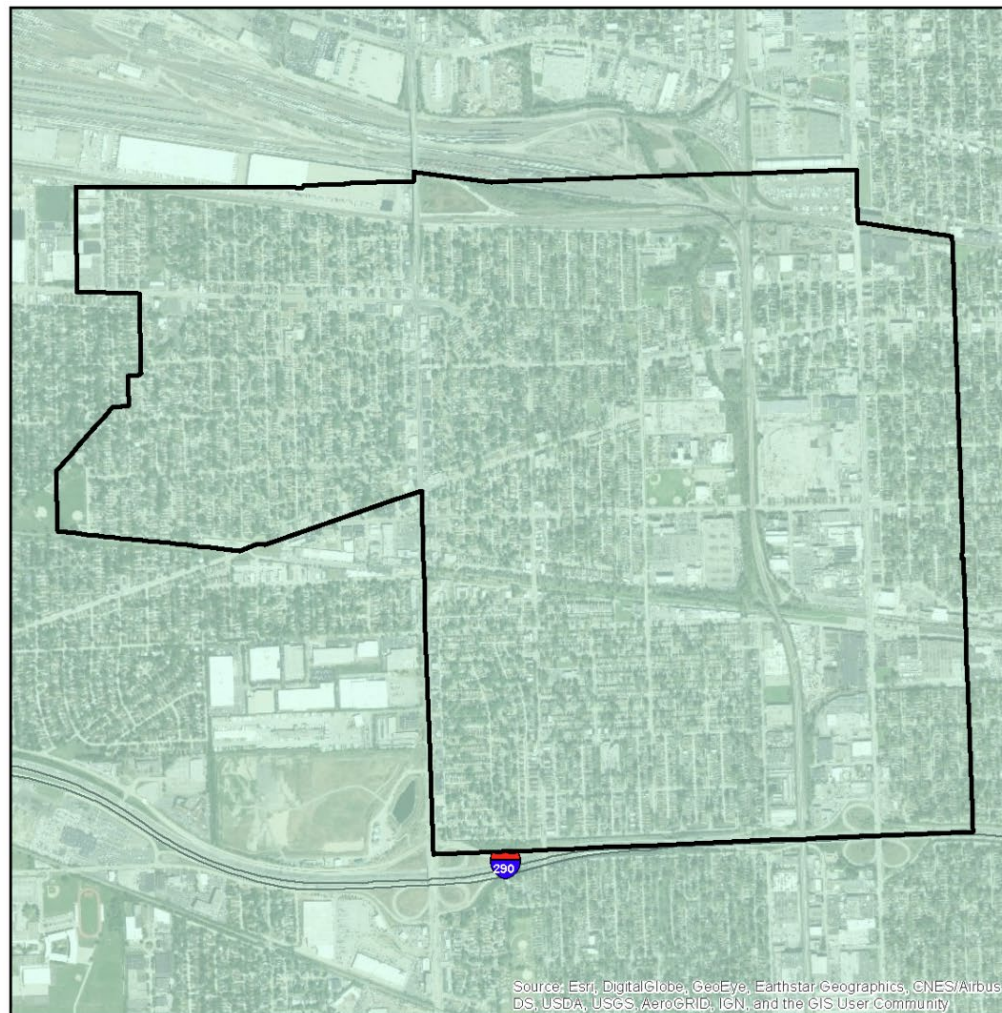
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0 0.075 0.15 0.3 0.45 0.6
Miles

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 BELLWOOD

LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY

- high
- low
- very low

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

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series I-2769 Map of Surficial Deposits and Materials in the Eastern and Central United States (East of 102 degrees West Longitude) by David S. Fullerton, Charles A. Bush and Jean N. 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.

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0 0.075 0.15 0.3 0.45 0.6 Miles

