

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

River Grove Annex

FINAL

July 2019

Prepared for:



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

Primary Point of Contact	Alternate Point of Contact
Brock Leder, Director of Public Works River Grove Public Works Dept. 2101 N West St. River Grove, IL 60171 Telephone: 708-878-3624 Email Address: bleder@rivergroveil.gov	Sean Flynn, Deputy Fire Chief River Grove Fire Dept. 2601 Thatcher Ave. River Grove, IL. 60171 Telephone: 312-617-8670 Email Address: sflynn@rivergroveil.gov

Jurisdiction Profile

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

- **Date of Incorporation:** 1888
- **Current Population:** 9,979 at the 2018 US Census population estimate.

Population Growth: From 2000 to 2016, River Grove has seen a 5 percent decrease with a relatively stable population seen over the past 40 years with no increases or decreasing exceeding 8 percent.

- **Location and Description:** The Village of River Grove is a suburb of Chicago located approximately 2 miles west of Chicago with a residential population of approximately 10,227. Suburbs adjacent to River Grove include: Schiller Park and Dunning to the north, River Forest and Stone Park to the south, Elmwood Park to the east, and Franklin Park and Northlake to the west. River Grove is a 2 square mile urban area that includes 1 college, 2 high schools, 4 elementary schools and a variety of light industrial and commercial business. We define our community as suburban based on its relationship to the City of Chicago. The village of River Grove is a small community with a population of 10,227 people. Although we are a small community, we are located within a densely populated area. This area has many main transportation routes, which cut through our village. Also located within our village is the major rail that leads into one of the area's largest humps for the Canadian Pacific Railroad. This facility has rail yards where freight trains are made up as well as the railroad's major repair shops. Amtrak rail service uses the main lines of the railroad as well as the local commuter rail service of Metra, which runs into downtown Chicago. Metra rail service has a station located within the village.
- **Brief History:** River Grove's past remains visible in the open spaces that make up approximately 50 percent of the community. The river and forest land, once home to the Potawatomi, was not officially opened for sale in River Grove until 1833, although special exceptions were made in private purchases from Indians. One such instance was that of half-French, half-Indian Claude LaFramboise, who, in the 1829 Treaty of Prairie du Chien, received land along the Des Plaines River that encompassed most of what would become River Grove. In 1833 Framboise sold the northern half of his land to his sister and the other half to Jesse Walker. Walker's share eventually passed to Walker's son-in-law, David Everett, who held Methodist services in his cabin. Triton College is now on the site of Everett's land. In 1834 Walker and Everett erected a bridge that crossed the Des Plaines River along an Indian trail, later Grand Avenue. A stagecoach line using the trail and bridge took passengers from Chicago to Galena. In the 1840s the Spencer brothers built a hotel at the crossing to cater to travelers. The hotel and the settlement were named Cazenovia after the brothers' hometown in New York. The area east of the river was later named Turner Park. In 1872 Richard Rhodes purchased land on the south side of Grand. He subdivided the 100 acres and put up six houses, calling the community Rhodes subdivision. A school and the First Presbyterian Church of River Park were established soon after. Both Rhodes and another subdivision west of the river, north of Grand near the railroad, were incorporated into River Grove in 1888. Altogether, this gave River Grove an estimated population of 200, four-fifths of whom were German. Until the 1920s most newcomers into the area were German, predominantly Lutheran. Almost all were blue-collar workers, the majority working for the

Milwaukee Railroad yards in Franklin Park. In 1920 Volk Realty established the Chicago Home Gardens subdivision north of the Oak Park County Club and west of Elmwood Park. Village residents had electricity, gas lines, and telephone service; a bank, movie theater, and Catholic church all were erected within the decade. Population rose to 484 in 1920 and by 1930 was at 2,741. Triton College, on the village's southern border, opened in 1964. By 2000 River Grove's population had climbed to 10,668, with many of Irish, Polish, Croatian, and Italian heritage and a growing number of Hispanics. River Grove's vast amount of unoccupied space includes 350 acres of forest preserve, 290 acres of golf courses and cemeteries, 35 acres of public school property, and 6 acres of parkland.

- **Climate:** The climate of Chicago is classified as humid continental with all four seasons distinctly represented: wet springs; hot and often humid summers; pleasant autumns; and cold winters. Annual precipitation is average, and reaches its lowest points in the months of January and February, and peaks in the months of May and June.
- **Governing Body Format:** The Village is run by a Village president and Village Clerk along with 6-Trustees that are voted on by the residents. This body of Government will assume the responsibility for the adoption and implementation of this plan. The Village offers full time service from Police, Fire, EMS, Public Works, Water Dept., recreation and human services.
- **Development Trends:** The village is currently land locked and existing properties are developed as they come up. In 2015 a downtown redevelopment project was initiated with mixed retail and residential space potential. The Village also posted the following on their website in 2015 which indicates there are new developments and economic opportunities coming!

"Despite the ongoing economic uncertainties, these are exciting times for our village. One national food service operation, Subway, recently opened a new location in town. Another national retailer, Hallmark Gift Store, has just opened in our Thatcher Woods Shopping Center. Additionally, a large, long-vacant 90,000 square-foot industrial parcel has just been purchased, rezoned, and is being redeveloped for retail and service uses. Many more exciting opportunities exist. The village is currently working with the Regional Transit Authority (RTA), the Chicago Metropolitan Agency for Planning (CMAP), and a well-respected urban planning firm, Teska Associates Inc., to develop a comprehensive Transit-Oriented Development (TOD) plan for the area surrounding the Metra Station. Developers of commercial, residential, and mixed-use projects are encouraged to contact us for more details."

Capability Assessment

The assessment of the jurisdiction’s legal and regulatory capabilities is presented in the *Legal and Regulatory Capability Table* below. The assessment of the jurisdiction’s fiscal capabilities is presented in the *Fiscal Capability Table* below. The assessment of the jurisdiction’s administrative and technical capabilities is presented in the *Administrative and Technical Capability Table* below. Information on the community’s National Flood Insurance Program (NFIP) compliance is presented in the *National Flood Insurance Program Compliance Table* below. Classifications under various community mitigation programs are presented in the *Community Classifications Table* below.

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinances & Requirements					
Building Code	Yes	No	No	Yes	In accordance with Public Act 096-0704, Illinois has adopted the IBC as its state Building Code RGVC, Title 7, 6/21/2012
Zonings	Yes	No	No	Yes	(65 ILCS 5/) Illinois Municipal Code. RGVC, Title 6, 6/21/2013
Subdivisions	No	No	No	No	DNA
Stormwater Management	No	Yes	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA.
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real

					Property Disclosure Act.
Growth Management	No	No	No	No	DNA
Site Plan Review	Yes	No	No	No	RGVC, Chapter 3,6-3-1, 6/21/2013
Public Health and Safety	No	No	Yes	Yes	Cook County Board of Health. RGVC, Title 4,6/21/2013
Environmental Protection	No	No	No	No	
Planning Documents					
General or Comprehensive Plan	Yes	No	No	No	Dec 2006
<i>Is the plan equipped to provide linkage to this mitigation plan?</i>					Yes
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	Yes	Yes	No	Regional stormwater impacts are managed by MWRD. The Village lies within the Lower Des Plaines watershed planning area of MWRD's comprehensive Stormwater Master Planning Program
Capital Improvement Plan	Yes	No	No	No	
<i>What types of capital facilities does the plan address?</i>					Water, Sewer, Infrastructure
<i>How often is the plan revised/updated?</i>					Yearly

Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	No	Yes	Yes	Dec 2016
Shoreline Management Plan	No	No	No	No	
Response/Recovery Planning					
Comprehensive Emergency Management Plan	No	Yes	Yes	Yes	Cook County DHSEM
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County DHSEM Preparing THIRA
Terrorism Plan	No	No	Yes	Yes	Cook County DHSEM
Post-Disaster Recovery Plan	No	No	Yes	Yes	Cook County DHSEM
Continuity of Operations Plan	No	No	Yes	No	Cook County DHSEM
Public Health Plans	No	No	No	No	Cook County DPH

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	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State Sponsored Grant Programs	Yes

Development Impact Fees for Homebuyers or Developers	Yes
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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	Edwin Hancock Engineering
Engineers or professionals trained in building or infrastructure construction practices	Yes	Edwin Hancock Engineering
Planners or engineers with an understanding of natural hazards	Yes	Edwin Hancock Engineering
Staff with training in benefit/cost analysis	No	
Surveyors	No	
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	
Grant writers	Yes	

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 Engineer
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	August 2008
When was the most recent Community Assistance Visit or Community Assistance Contact?	Have not received a Community Assistance Visit.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	Unknown
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	No extreme flooding April 2013

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
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

TABLE: COMMUNITY CLASSIFICATIONS			
	Participating?	Classification	Date Classified
Community Rating System	N/A	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	Unknown	--
Public Protection/ISO	Yes	Unknown	--
StormReady	Yes	Gold (Countywide)	--
Tree City USA	Yes	Active	1995

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: 25
- Number of FEMA-Identified Severe Repetitive Loss Properties: 1
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: None

TABLE: NATURAL HAZARD EVENTS			
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment
Flood	-	4/2013	-
Flood	-	7/2011	-
Blizzard	1960-031-64343	2/2011	-
Flood	-	7/2010	-
Flood	1800-03-6434	9/2008	-
Flood	-	2/1997	-
Flood	-	1995	-
Flood	-	8/1987	-
Flood	-	10/1986	-

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: Previously, the community has experienced flooding at Grand and River Rd. and Fullerton and River Rd., making those areas impassable.

Severe Weather: In 1997, Strong thunderstorms produced hail, 1 inch in diameter, and strong winds which downed trees and power lines. In 2007, severe storms moved across northern Illinois during the

afternoon hours of July 10th. A 20-foot-long, 8-inch diameter tree limb was blown down at Triton College. Extended power outages are a prime concern.

Dam Failure: While no occurrences have happened, the location of the dam to the area makes it susceptible if a failure occurs.

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	54
2	Severe Winter Weather	54
3	Tornado	51
4	Earthquake	48
5	Dam Failure	33
6	Flood	24
7	Drought	3

Mitigation Strategies and Actions

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

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

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

TABLE: HAZARD MITIGATION ACTION PLAN MATRIX						
Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
Action R4.1— Swift Water Rescue equipment and training						
Ongoing	Flooding, Severe Weather, Dam Failure	1, 5, 8	Fire	\$250,000; High	Grant	Long-term
Action R4.2— Acquire flood prone property on River Rd.						
Ongoing	Flood	7, 8	Building Dept.	\$1,000,000; High	Grant	Long-term
Action R4.3— Install permanent street swing gate closure for easy deployment in flooding						
Ongoing	Flood	1, 2, 5, 13	Public Works	High	Grant	Long-term
Action R4.4— Continue to support the countywide actions identified in this plan.						
Ongoing	All	All	Village	Low	General Fund	Short-and Long-term
Action R4.5— Actively participate in the plan maintenance strategy identified in this plan.						

Ongoing	All	3, 4, 6	DHSEM, Village	Low	General Fund	Short-term
Action R4.6 —Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.						
Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village	Low	General Fund	Long-term
Action R4.7 —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.						
Ongoing	Flooding	4, 6, 9	Building Dept.	Low	General Fund	Short-term and ongoing
Action R4.8 —Where feasible, implement a program to record high water marks following high-water events.						
Ongoing	Flooding, Severe Weather	3, 6, 9	Village	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
Action R4.9 —Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.						
Ongoing	All	3, 4, 6, 10, 13	Village	Low	General Fund	Short-term
Action R4.10 —Purchase and install a Generator for community center located near flood area.						
New	Flood, High Wind, Hazardous Materials Incident	2	Public Works/FD	\$15,000; Medium	Grants	2020
Action R4.11 —Launch the 2018 FY Green Alleys Program						
New	Flood	12, 13	MWRD	Unknown	MWRD	Short-term
(a) Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.						

TABLE: MITIGATION STRATEGY PRIORITY SCHEDULE

Action Number	Number of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)
1	3	High	High	High	Yes	No	High
2	1	High	High	High	Yes	No	High
3	4	High	Medium	High	Yes	No	High
4	13	Medium	Low	Yes	No	Yes	High
5	3	Medium	Low	Yes	Yes	Yes	High
6	9	Medium	Low	Yes	No	Yes	Medium
7	3	Medium	Low	Yes	No	Yes	High
8	3	Medium	Medium	Yes	Yes	No	Medium
9	5	Medium	Low	Yes	No	Yes	High
10	1	Medium	Medium	Yes	Yes	Unknown	Medium
11	2	Medium	Unknown	Unknown	Yes	Unknown	Medium

(a) See Chapter 1 for explanation of priorities.

New Mitigation Actions

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

Action R-4.10

Mitigation Action	Purchase and install a Generator for community center located near flood area.
Year Initiated	2019
Applicable Jurisdiction	River Grove
Lead Agency/Organization	Public Works/FD
Supporting Agencies/Organizations	
Applicable Goal	<ul style="list-style-type: none"> • Develop and implement sustainable, cost-effective, and environmentally sound risk-reduction (mitigation) projects. • Protect public services and critical facilities, including infrastructure, from loss of use during natural hazard events. • Involve stakeholders to enhance the local capacity to mitigate, prepare for, and respond to the impacts of natural hazards. • Develop, promote, and integrate mitigation action plans. • Promote public understanding of and support for hazard mitigation.
Applicable Objective	<ul style="list-style-type: none"> • Increase the resilience of (or protect and maintain) infrastructure and critical facilities.
Potential Funding Source	Grants
Estimated Cost	\$15,000
Benefits (loss avoided)	N/A
Projected Completion Date	2020
Priority and Level of Importance (Low, Medium, High)	Medium 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 existing funding but would require a re-apportionment of the budget amendment, or the cost of the project would have to be spread over multiple years.
Actual Completion Date	

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

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

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

Action R-4.11

Mitigation Action	Launch the 2018 FY Green Alleys Program
Year Initiated	
Applicable Jurisdiction	Village of River Grove
Lead Agency/Organization	MWRD
Supporting Agencies/Organizations	Village of River Grove
Applicable Goal	
Applicable Objective	<ul style="list-style-type: none"> • Reduce natural hazard-related risks and vulnerability to potentially isolated populations within the planning area. • Encourage hazard mitigation measures that result in the least adverse effect on the natural environment and that use natural processes.
Potential Funding Source	MWRD
Estimated Cost	N/A
Benefits (loss avoided)	N/A
Projected Completion Date	Unknown
Priority and Level of Importance (Low, Medium, High)	Medium
Benefit Analysis (Low, Medium, High)	Medium
Cost Analysis (Low, Medium, High)	N/A
Actual Completion Date	

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

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

Mitigated Hazards	
	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake

X	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

Ongoing Mitigation Actions

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

Action R-4.1

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.1	Swift Water Rescue equipment and training	
Status Description: Yes	Continuing to look for grants and various funding avenues for the equipment and training and hiring a grant writer	O
<p>Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.2

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.2	Acquire flood prone property on River rd.	
Status Description: No	No current funding available and also in a village wide financial crisis.	X
<p>Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.3

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.3	Install permanent street swing gate closure for easy deployment in flooding	
Status Description: No	Continuing to look for grants and various funding avenues, No current funding available and also in a village wide financial crisis.	X
<p style="text-align: center;">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.4

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.4	Continue to support the countywide actions identified in this plan.	
Status Description: Yes	Continuing to support the plan	O
<p style="text-align: center;">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.5

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.5	Actively participate in the plan maintenance strategy identified in this plan	
Status Description: Yes	We are currently participating and completing the maint. of this plan for the Village.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.6

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.6	Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.	
Status Description: Yes	The Village currently participates in Tree City and has for years, and is exploring the requirements and going to apply and attempt to participate in Storm Ready and exploring the requirements of the Community Rating System.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.7

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.7	Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.	
Status Description: Yes	The village is currently working on this and is working with the village engineer to update the flood plan mapping and assisting residents as needed.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.8

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.8	Where feasible, implement a program to record high water marks following high-water events.	
Status Description: No	Continuing to look for grants and various funding avenues. No current funding available and also in a village wide financial crisis.	O
<p align="center">Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken</p>		

Action R-4.9

TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)
# R-4.9	Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.	
Status Description: Yes	The village has it integrated into the building dept. through the village engineer inspectors and plan reviews. along with the zoning board	O
<p align="center">Completion status legend:</p> <p align="center"> N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken </p>		

Completed Mitigation Actions

River Grove has no completed actions at this time.

Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

Additional Comments

No additional comments at this time

HAZUS-MH Risk Assessment Results

RIVER GROVE EXISTING CONDITIONS	
2010 Population	10,227
Total Assessed Value of Structures and Contents	\$2,598,466,985
Area in 100-Year Floodplain	334.00 acres
Area in 500-Year Floodplain	416.07 acres
Number of Critical Facilities	27

HAZARD EXPOSURE IN RIVER GROVE						
	Number Exposed		Value Exposed to Hazard		Total	% of Total Assessed Value Exposed
	Population	Buildings	Structure	Contents		
Dam Failure						
Buffalo Creek	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #2	0	0	\$0	\$0	\$0	0.00%
Touhy	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #4	0	0	\$0	\$0	\$0	0.00%
Flood						
100-Year	380	117	\$212,859,149	\$202,889,673	\$415,748,822	16.00%

500-Year	634	195	\$236,366,882	\$215,695,153	\$452,062,034	17.40%
Tornado						
100-Year	—	—	\$632,704,687	\$499,326,333	\$1,132,031,020	43.57%
500-Year	—	—	\$1,015,718,549	\$769,206,686	\$1,784,925,234	68.69%

ESTIMATED PROPERTY DAMAGE VALUES IN RIVER GROVE				
	Estimated Damage Associated with Hazard			% of Total Assessed Value Damaged
	Building	Contents	Total	
Dam Failure				
Buffalo Creek	\$0	\$0	\$0	0.00%
U. Salt Cr. #2	\$0	\$0	\$0	0.00%
Touhy	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	\$0	\$0	\$0	0.00%
U. Salt Cr. #4	\$0	\$0	\$0	0.00%
Earthquake				
1909 Historical Event	\$13,479,590	\$3,669,531	\$17,149,121	0.66%
Flood				
10-Year	\$3,159,657	\$9,627,277	\$12,786,934	0.49%
100-Year	\$32,261,027	\$91,659,722	\$123,920,749	4.77%
500-Year	\$41,953,544	\$114,471,050	\$156,424,593	6.02%

Tornado				
100-Year	\$63,270,469	\$49,932,633	\$113,203,102	4.36%
500-Year	\$148,294,908	\$112,304,176	\$260,599,084	10.03%

Hazard Mapping





