

PUTNAM COUNTY 2021 HAZARD MITIGATION PLAN AMENDMENT: VILLAGE OF OTTAWA PLAN ADOPTION AND INTEGRATION

The purpose of this amendment to the Putnam County HMP is to address the Village of Ottawa mitigation activities not originally captured in the Putnam County HMP. In coordination with the Village of Ottawa, Putnam County will be amending the Putnam County Hazard 2021 Mitigation Plan to integrate the Village's capabilities, vulnerabilities, participation, and adoption. Coordination was made through corresponding emails and a meeting on March 8th, 2023.

VILLAGE OF OTTAWA BACKGROUND

The Village of Ottawa is the county seat of Putnam County. Putnam County residents remained committed to agriculture throughout the twentieth century. In 2000, approximately ninety-three percent of the county's acreage was under cultivation. Ottawa was the largest community in Putnam County in 2015, with a population of 4,456 people. With a land total of 4.77 square miles, the population density is 949 people per square mile. The racial makeup of the Village is approximately 97% White/Caucasian, 1% Black or African-American, and 2% other races. Those of Hispanic descent make up 17% of the population. Ottawa is located in northwestern Ohio, and is the County Seat for Putnam County. This County is surrounded by Henry, Wood, Hancock, Allen, Van Wert, Paulding, and Defiance Counties. According to the United States Census Bureau, the Village covers a total of 4.77 square miles, 4.7 of which are land, and 0.07 of is water. The Blanchard River runs through the Village on the western and southern sides. Tawa Run and Klass Creek are two streams that also wind through Ottawa. There are no interstates that run through or near the Village. United States Highway 224 bisects the Village, which becomes Main Street within Ottawa. There is a minor airport northeast of the Village. According to the 2020 Census, there are 4,456 people living in the Village of Ottawa.

VILLAGE OF OTTAWA CAPABILITY ASSESSMENT

The Village of Ottawa reviewed their capability assessment in Section 5, Mitigation Strategy, of the Village of Ottawa 2018 HMP, pages 5-4 to 5-9, concurred that all capabilities listed met their current planning and regulatory, administrative/technical, fiscal, and political capabilities to augment known issues and weaknesses from identified natural, technological, and man-made hazards. The following capability assessment is to be integrated into section 4 of the Putnam County 2021 Hazard Mitigation Plan.

ABILITY TO EXPAND ON EXISTING CAPABILITIES

These capabilities can be expanded upon with the proper influx of funds or personnel. Should additional state or federal funding become available to specifically augment existing capabilities, then the jurisdictions represented in this plan would be able to improve their capabilities. Additionally, as personnel turn over, they may be replaced with individuals with skillsets not captured in these surveys. The Village will continue to develop their capabilities over time, and expand upon them where they are able.

TABLE 5 - 1 PLANNING AND REGULATORY CAPABILITIES

Tool/Program	Status			Dept. / Agency Responsible	Effect on Loss Reduction: + Support O Neutral -- Hinder	Change Since Last Plan: + Positive -- Negative	Comments:
	In Place	Date Adopted or Updated	Under Development				
Hazard Mitigation Plan	X	2013	Renewal pending	Village of Ottawa	+	+	Plan supports positive hazard mitigation projects which have occurred since Plan inception.
Emergency Operations Plan	WTP & WWTP	2016 2008	-	Village WTP and WWTP people	WTP + WWTP 0	WTP + WWTP 0	WTP EOP is in renewal phase, WWTP plan needs renewed
Disaster Recovery Plan	-	-	-	-	-	-	-
Evacuation Plan	-	-	-	-	-	-	-
Continuity of Operations Plan	-	-	-	-	-	-	-
NFIP	-	-	-	-	-	-	-
NFIP-CRS	X	Under CRS since 1999	Renewed yearly	Village of Ottawa & FPA	+	+	Village continues to participate in positive CRS program
Floodplain Regulations	X	Ord# 04-13 2004	-	Village of Ottawa & FPA	+	+	Floodplain development is closely covered by this
Floodplain Management Plan	X	2008	-	Floodplain Steering Committ.	+	+	Village continues to hold meetings to improve Village flood mitigation mgmt
Zoning Regulations	X	Ord # 1135 1984	-	Village of Ottawa & FPA	O	O	Zoned floodplain areas also covered by floodplain regs
Subdivision Regulations	X	1955	-	Village of Ottawa & FPA	O	O	Zoned floodplain SD areas also covered by floodplain regs

Tool/Program	Status			Dept. / Agency Responsible	Effect on Loss Reduction: + Support O Neutral -- Hinder	Change Since Last Plan: + Positive -- Negative	Comments:
	In Place	Date Adopted or Updated	Under Development				
Comprehensive Land Use Plan (or General, Master or Growth Mgmt. Plan)	X	1972 2017	-	Village Council	+	+	Updated annually by committee
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	2016	-	Village Council	+	+	Updated annually by Committee
Stormwater Management Plan / Ordinance	-	-	-	-	-	-	No stormwater Ord, however mgmt. is covered by 2007 engineering study
Natural Resource Protection Plan	-	-	-	-	-	-	
Capital Improvement Plan	-	-	-	-	-	-	
Economic Development Plan	X	1986 2017	-	Village Council and Put Co CIC	-	-	Updated annually by the Putnam County CIC
Historic Preservation Plan	-	-	-	-	-	-	-
Farmland Preservation	-	-	-	-	-	-	-
Building Code	-	-	-	-	-	-	No building code for 1-3 family residences. 4 family and commercial are under OBC
Fire Code	-	-	-	-	-	-	No specific fire code for 1-3 family, 4 family and commercial covered by OBC
Firewise	-	-	-	-	-	-	-
Storm Ready	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-

TABLE 5 - 2 ADMINISTRATIVE AND TECHNICAL CAPABILITIES

Staff/Personnel Resources	Yes	No	Department / Agency	Comments
Planners (with land use / land development knowledge)		X		No professional planner
Planners or engineers (with natural and/or human caused hazards knowledge)		X		Locally hired, no staff
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		Locally hired, no staff
Emergency manager		X		Locally hired, no staff
Floodplain manager	X		CFM on staff	Village has CFM FPA on staff
Land surveyors		X		Locally hired, no staff
Scientists or staff familiar with the hazards of the community		X		Locally hired, no staff
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program		X		Village relies on Putnam County GIS professional
Grant writers or fiscal staff to handle large/complex grants	X		Village Staff	Village Clerk Office staff handles grants
Other		X		

TABLE 5 - 3 FISCAL CAPABILITY

Financial Resources	Yes	No	Department / Agency	Comments
Capital improvement programming	X		Village Council/Income Tax Department	By committee appointed by Council. Cap Improvement budget has limited resources which are allocated based on need.
Community Development Block Grants (CDBG)	X		Village of Ottawa	Village can apply for CDBG funds through Putnam County Commissioners office
Special purpose taxes		X	-	-
Gas / electric utility fees	X		Village Council	Council has arranged these fees through aggregation
Water / sewer fees	X		Village Council	Council sets water/sewer fees
Stormwater utility fees		X	-	Village has no specific storm water fees
Development impact fees		X	-	-
General obligation, revenue, and/or special tax bonds	X		Village Council	Council has authority to file for these finances if desired
Partnering arrangements or intergovernmental agreements	X		Village Council	By Contract and Committees appointed by Council
Other				

Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction’s political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



Score: 4.5

Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-4 of this survey.

TABLE 5 - 4 OVERALL DEGREE OF C AP ABILITY

Area	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability			X
Fiscal Capability		X	
Community Political Capability	X		
Community Resiliency Capability		X	

VULNERABILITY ASSESSMENT

The following hazard vulnerability assessments are to be integrated into their respective hazard profiles of the Putnam County 2021 Hazard Mitigation Plan.

Severe Thunderstorm Vulnerability

The Village of Ottawa is subject to severe storms ranging from thunderstorms to tropical storms which have the potential to cause flash flooding, tornadoes, downbursts, and debris. The severe thunderstorms profile is primarily concerned with past and future damages from high winds, lightning, and hail. Flooding is covered as a separate hazard, including flooding that occurs from a heavy precipitation event.

Mitigation of building damage has been most successful where strict building codes for high-wind influence areas and designated special flood hazard areas have been adopted and enforced by local governments, and the builders have complied. Proven techniques are available to reduce lightning damage by grounding techniques for buildings.

Post-disaster mitigation efforts include buyout programs, relocations, structural elevations, improved open-space preservation, and land use planning within high-risk areas. Due to the significant risk from severe storms, the Village will remain proactive in its mitigation efforts to help build sustainability.

The State of Ohio 2019 Hazard Mitigation plan estimates a per capita cost of \$1.62 annually for Putnam County from severe summer storms. These figures were in 2017 dollars which would value at \$1.96 in early 2023. With the 2020 Census estimating 4,456 people living in the Village of Ottawa, it is estimated that the village has an annual loss of \$8,735 from severe summer storms.

Severe Winter Storms Vulnerability

The Village of Ottawa is subject to severe winter storms which have the potential to be hazardous as a result of cold temperatures, heavy snow or ice and sometimes strong winds. Severe winter storm hazards can cause a range of damage to structures that will depend on the magnitude and duration of storm events. Losses may be as small as lost productivity and wages when workers are unable to travel or as large as sustained roof damage or building collapse. The severe winter storms profile is primarily concerned with past and future damages from cold temperatures, heavy snow or ice and sometimes strong winds.

The State of Ohio 2019 Hazard Mitigation plan estimates a per capita cost of \$1.61 annually for Putnam County from severe winter storms. These figures were in 2017 dollars which would value at \$1.95 in early 2023. With the 2020 Census estimating 4,456 people living in the Village of Ottawa, it is estimated that the village has an annual loss of \$8,681 from severe winter storms.

Flooding Vulnerability

The method used in determining the types and numbers of potential assets exposed to flooding was conducted using a loss estimation model called HAZUS-MH. HAZUS-MH is a regional multi-hazard loss estimation model that was developed by the FEMA and the National Institute of Building Sciences (NIBS).

The geographical size of the region is approximately 2 square miles and contains 190 census blocks. The region contains over 2 thousand households and has a total population of 4,456 people. For this Plan, a 100-year flood scenario was modeled within the boundaries and assets of the Village of Ottawa, and the results are presented below.

Study Region Overview Map

Illustrating scenario flood extent, as well as exposed essential facilities and total exposure

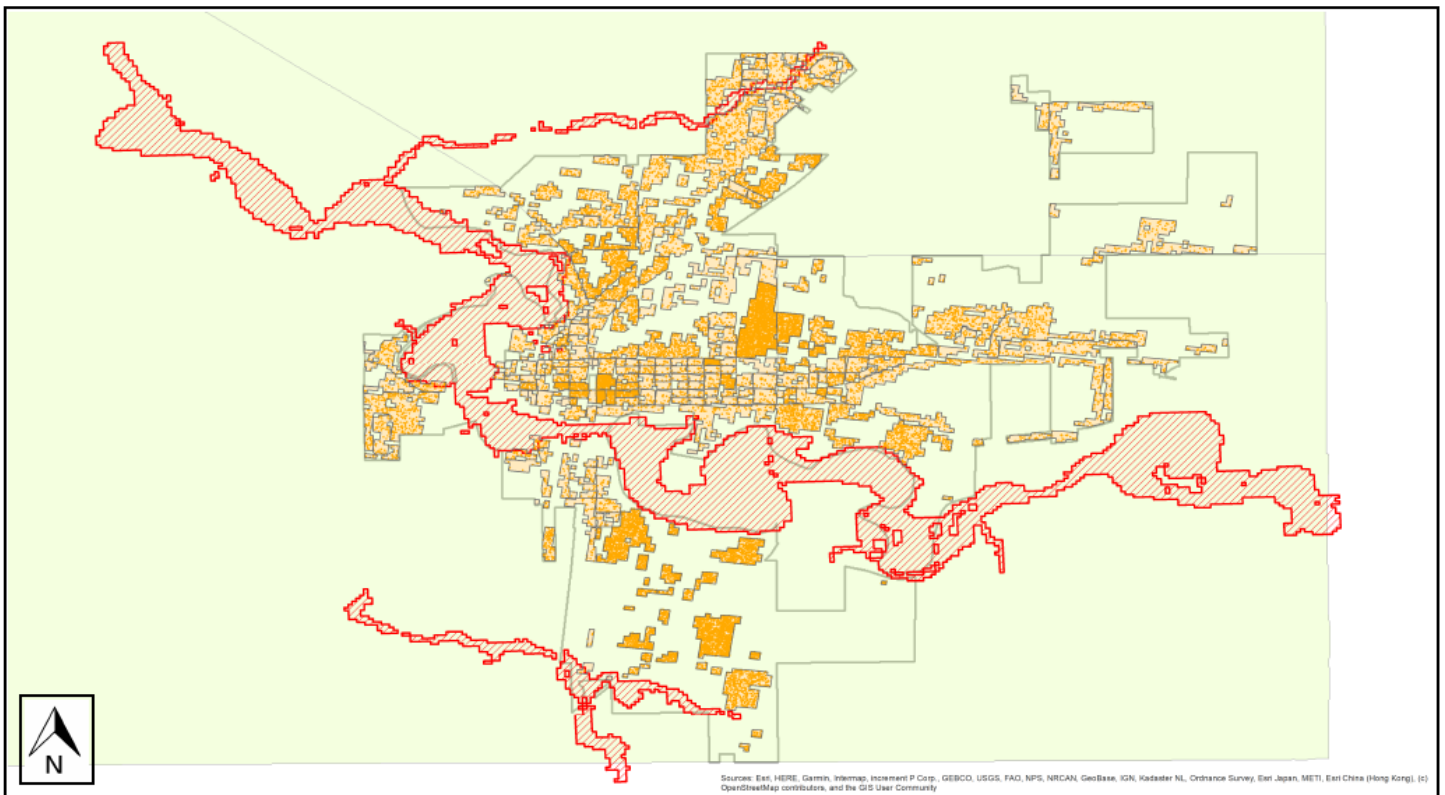


Table 2
Building Exposure by Occupancy Type for the Scenario

Occupancy	Exposure (\$1000)	Percent of Total
Residential	127,476	63.7%
Commercial	68,035	34.0%
Industrial	0	0.0%
Agricultural	0	0.0%
Religion	0	0.0%
Government	4,624	2.3%
Education	0	0.0%
Total	200,135	100%

Table 6: Building-Related Economic Loss Estimates
(Millions of dollars)

Category	Area	Residential	Commercial	Industrial	Others	Total
<u>Building Loss</u>						
	Building	1.80	0.30	0.00	0.08	2.17
	Content	0.87	0.60	0.00	0.28	1.75
	Inventory	0.00	0.05	0.00	0.00	0.05
	Subtotal	2.67	0.95	0.00	0.35	3.97
<u>Business Interruption</u>						
	Income	0.02	0.60	0.00	0.04	0.66
	Relocation	0.40	0.02	0.00	0.00	0.42
	Rental Income	0.17	0.02	0.00	0.00	0.19
	Wage	0.05	0.40	0.00	1.14	1.59
	Subtotal	0.64	1.04	0.00	1.18	2.86
ALL	Total	3.30	1.99	0.00	1.53	6.82

MITIGATION GOALS AND ACTIONS

The Village of Ottawa reviewed the goals of the Putnam County 2021 HMP, Section 5, Mitigation Strategy, pages 5-1 to 5-3, to see if these goals meet their hazard mitigating goals and objects for the Village of Ottawa. The Village of Ottawa will adopt the goals listed in Section 5 of the Putnam County 2021 HMP.

The Village of Ottawa reviewed and assessed the status of their Mitigation Actions and will be carrying over 13 Mitigation Actions into the following Goals, Page 5-1, of the Putnam County HMP:

- GOAL 1: Reduce damages from severe summer storms.
- GOAL 2: Reduce the effects of severe winter storms in Putnam County.
- GOAL 3: Reduce the negative effects of flooding in Putnam County.

The prioritization of these actions follows the same prioritization scoring methodology as in the Putnam County 2021 HMP, Page 5-4.

Action	Lead Agency/ Department	Implementation Schedule	Estimated Cost	Funding Source	Priority Score
GOAL 1: Reduce damages from severe summer storms.					
Install surge protectors on electronic equipment	Village Department Directors	2018-2026	\$1,000	Village Funds	22
Install uninterruptible power supplies on critical electronic equipment	Village Mayor's Office	2018-2026	\$2,000	Village funds	21
Promote use of special roofing that resists uplifting forces through housing office	Village Clerk's Office	2018-2026	Staff time and resources	Village funds	20
Raise public awareness of severe thunderstorms to promote individual preparedness at public libraries	Village Clerk's Office	2018-2026	Staff time and resources	Village funds	18

Action	Lead Agency/ Department	Implementation Schedule	Estimated Cost	Funding Source	Priority Score
GOAL 2: Reduce the effects of severe winter storms in Putnam County.					
Support tree-trimming to safeguard utilities during winter storm events	Village Tree Commission	2018-2026	\$50,000	Village Funds, HMA programs	20
Purchase equipment necessary to remove ice and snow during severe storms	Village Public Works Department	2018-2026	\$500,000	Federal and state grant funds	14

Action	Lead Agency/ Department	Implementation Schedule	Estimated Cost	Funding Source	Priority Score
GOAL 3: Reduce the negative effects of flooding in Putnam County.					
Acquisition / Demolition of flood-inundated areas and at-risk properties	Village of Ottawa Floodplain Administrator	2018-2026	\$2-3 million	Federal HMA Grants, State Grants, Share Funding	19
Investigate methods to floodproof downtown	Village of Ottawa Floodplain Administrator	2018-2026	Existing Resources	Village budget	18
Improve the Village of Ottawa's CRS score	Village of Ottawa Floodplain Administrator	2018-2026	Existing Resources	Village budget	17
Investigate methods to bolster existing stormwater system	Village Municipal Director	2018-2026	Existing Resources	Village budget	15
Cooperate on all mitigation initiatives regarding the I-9 bridge approach	Putnam County Commissioners, Ottawa Township Trustees, Ottawa Flood Mitigation Steering Committee	2018-2026	\$1-2 million	Federal grants, road project funds, CDBG funds	14
Coordinate with Putnam County regarding storm water mitigation	Village Mayor's Office	2018-2026	Existing Resources	Village budget	14
Enforce building codes and floodplain regulations	Village of Ottawa Floodplain Administrator	2018-2026	Existing Resources	Existing Budget, Taxes	12