
Town of Mazomanie Annex

Community Profile

The Town of Mazomanie is located in the far Northwest quadrant of the County, just across the Wisconsin River from Sauk County. It encompasses the Village of Mazomanie and is bordered by the Towns of Roxbury, Berry, and Black Earth in Dane County. According to the Dane County Land Information Office, the Town of Mazomanie has a total area of 30.71 square miles.

As of the 2010 Census, there are 1,090 people, 437 households, and 320 families residing in the Town of Mazomanie. The population density is 36.7 per square mile. There are 478 housing units at an average density of 16.1 per square mile. Table 1 shows the population profile by age for the Town of Mazomanie according to the 2010 Census.

Table 1 Population Profile of Town of Mazomanie

Category	Number	Percent
Total population	1,090	100.0
Under 5 years	45	4.1
5 to 9 years	67	6.1
10 to 14 years	72	6.6
15 to 19 years	80	7.3
20 to 24 years	39	3.6
25 to 29 years	45	4.1
30 to 34 years	49	4.5
35 to 39 years	56	5.1
40 to 44 years	87	8.0
45 to 49 years	133	12.2
50 to 54 years	115	10.6
55 to 59 years	113	10.4
60 to 64 years	70	6.4
65 to 69 years	54	5.0
70 to 74 years	37	3.4
75 to 79 years	12	1.1
80 to 84 years	7	0.6
85 years and over	9	0.8

Data Source: 2010 U.S. Census

American Community Survey estimates for 2014 indicate that the median income for a household in the Town of Mazomanie is \$70,400 and the median income for a family is \$77,708. The per capita income for the Town of Mazomanie is \$34,609. 94.1% of the population has at least a high school degree, while 27.7% of the population holds at least a bachelor's level degree.

Hazard Identification and Risk Assessment

A hazard identification and vulnerability analysis was completed for the Town of Mazomanie using the same methodology in the County's base plan. The information to support the hazard identification and risk assessment for this Annex was collected through a Data Collection Guide, which was distributed to each participating municipality to complete.

The first step in a hazard analysis is to identify which hazards the community is vulnerable to. Table 2 outlines the hazard identification for the Town of Mazomanie based on the Data Collection Guide. The Data Collection Guide listed all of the hazards that could impact anywhere in Dane County. The purpose of this worksheet was to identify and rank the hazards and vulnerabilities specific to the jurisdiction. The Town of Mazomanie's planning team members were asked to complete the matrix by ranking each category on a scale of 0 to 5 based on the experience and perspective of each planning team member. A ranking of 0 indicated "no concern" while a ranking of 5 indicated "highest concern". This matrix appears as Table 2. This matrix reflects the significance of the hazards relative to one another.

This matrix reflects that the Town of Mazomanie is most vulnerable to tornado. According to the matrix, the Town of Mazomanie has the highest vulnerability to dam/levee failures, extreme cold and heat, drought, and flood. The vulnerability established here is a qualitative assumption based on the impacts, geographic extent, probability of future occurrence, and magnitude/severity. On the county level, these vulnerabilities were calculated with quantitative data as well.

Table 2 Vulnerability Assessment Matrix for the Town of Mazomanie

Hazard	Hazard Attributes			Impact Attributes						Total
	Area of Impact	Past History, Probability of Future Occurrence	Short Term Time Factors	Primary Impact (Short Term - Life and Property)			Secondary Impact (Long Term – Community Impacts)			
						Impact on General Structures	Impact on Critical Facilities	Impact on At-Risk Populations	Social Impact	Economic Impact
	(1-5)	(1-5)	(1-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	
Dam/Levee Failure	3	1	5	3	3	3	1	2	4	25
Extreme Cold	5	5	3	1	1	5	3	2	3	28
Extreme Heat	5	5	3	1	1	5	3	2	3	28
Drought	5	5	3	1	1	5	3	2	3	28
Flood	3	1	5	3	3	3	1	2	4	25
Fog	1	1	1	0	0	0	0	0	0	3
Hail Storm	1	1	1	1	0	0	0	2	1	7
Landslide	1	1	2	0	1	0	0	1	0	6
Lightning	1	1	1	1	2	0	0	1	0	7
Tornado	1	1	1	1	2	0	0	1	0	7
Wildfire	1	1	1	1	0	0	0	0	0	4
Windstorm	1	2	1	2	0	0	0	2	0	8
Winter Storm	1	1	2	1	1	0	0	0	0	6

Previous Hazard Events

The Town of Mazomanie did not list any specific hazards beyond those listed in the County-wide plan.

Asset Inventory

Assets include the people, property, and critical facilities within the Town of Mazomanie that are exposed to hazards in general. Inventories of property, essential infrastructure, and natural, cultural or historic resources help provide a comprehensive picture of the community and provide a method of assessing exposure to hazards by establishing the improved and total values, capacities and populations for these assets. It also forms the basis for estimating potential losses, where possible.

Population

Table 3 Vulnerable Population Summary

Disability Status from the 2014 American Community Survey	Number	Percent of Group with Disability
Population Under 5 years old with a Disability	0	0%
Population 5-17 years old with a Disability	0	0
Population 18-64 with a Disability	65	9.1
Population Over 65 years old with a Disability	33	25.6
Total Population with Disability	98	9.4

Data Source: 2014 American Community Survey

Other Vulnerable Populations	Estimate	Percentage
Families Below Poverty Level	12	3.9
Individuals Below Poverty Level	40	3.8
Of those poverty: Individuals Under 18	4	2.0
Of those poverty: Individuals Over 65	17	13.2
Total Population Over 5 who Speak English less than "very well"	0	0
2014 ACS Total Population Estimate	1045	100%

Data Source: 2014 American Community Survey

General Property

Table 4 Property Exposure Summary

Property Type	Total Parcel Count	Improved Parcel Count	Improved Values (\$)	Content (\$)	Total Value (\$)
Totals	1,061	457	66,886,600	33,443,300	100,329,900
Agriculture	393	110	17,723,500	8,861,750	26,585,250
Commercial	4	4	735,400	367,700	1,103,100
Utilities	1	0	0	0	0
Industrial	4	4	274,900	137,450	412,350
Institutional/ Governmental	1	0	0	0	0
Other	317	20	1,634,300	817,150	2,451,450
Residential	341	319	46,518,500	23,259,250	69,777,750

Data Source: Dane County Land Information Office

Critical Facilities

The Town of Mazomanie has identified the critical facilities important to protect from disaster impacts. These are collected in Table 5 as collected from the Data Collection Guide. No replacement values were supplied by the Town.

Table 5 Critical Facility Summary/Essential Infrastructures

Facility	Type*	No. of Facilities	Replacement Value (\$)
Town Hall	EI	1	
Garage	EI	1	
Salt Shed	EI	1	
Mobile Homes	VF	Unknown	
Bridges (Town)	EI	1	
*EI: Essential Infrastructure; VF: Vulnerable Facilities; HM: Hazardous Materials Facilities			

Data Source: 2015 Town of Mazomanie Data Collection Guide

Other Assets

Other assets help define a community beyond the current composition of the Town of Mazomanie. These assets may provide economic benefit to the community, in addition to preserving the heritage and diversity of the community and may include natural, cultural and historic assets or economic assets such as major employers. It may also include more specific detail on critical facilities. The Town of Mazomanie has not identified any other assets.

Vulnerability to Specific Hazards

This section details vulnerability to specific hazards, where quantifiable, and where it differs from that of the overall County. The previous inventory tables quantify what is exposed to the various hazards

within Town of Mazomanie. Table 6 cross-references the hazards with the various tables where exposure or vulnerability specifics are found. The intent of Table 6 is to quantify, where possible, future impacts of each hazard on the jurisdiction. In many cases it is difficult to estimate potential losses, so the overall exposure of populations, structures, and critical facilities is referenced.

Table 6 Hazard Vulnerability Specifics

Hazard	Populations	Structures	Critical Facilities	Future Damage Potential
Dam Failure	None	None	None	Specifics unknown; See hazard profile in County Plan
Drought	Minimal	None	Minimal	Specifics unknown; See hazard profile in County Plan
Flooding	See section below	See section below	See section below	See section below
Fog	Minimal	None	None	Specifics unknown; See hazard profile in County Plan
Hailstorm	Minimal	See Property Exposure table 3	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Landslide/ Sinkholes/ Erosion	Minimal	Minimal	Minimal	Specifics unknown; See hazard profile in County Plan
Lightning	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Severe Cold	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Severe Heat	See Table 2 Population	None	Minimal	Specifics unknown; See hazard profile in County Plan
Severe Winter Storm	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Tornado	See Table 2 Population	See section below	See Critical Facility Inventory Table(s)	See section below
Wildfire	Minimal	Minimal	Minimal	Specifics unknown; See hazard profile in County Plan
Windstorm	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan

Flood

Structures and Properties in the Floodplain

Refer to the flood profile in the mitigation plan for a description of the methodology used to identify potentially flood-prone properties. Figure 1 shows mapped floodplains, future growth areas, and critical or vulnerable facilities. Tables 7 and 8 outline the primary structures and properties with primary structures on them within the Town of Mazomanie. Potential number of individuals at risk figures are based on primary residential structures and the average household size within Dane County.

Table 7 Primary Structures in the Floodplain

Total Floodway Structures	Floodway Residential Structures	Total Structures in 100 year Floodplain	Residential Structures in 100 year Floodplain	Potential Number of Individuals at Risk in 100 year Flood	Total Structures in 500 year Floodplain	Residential Structures in 500 year Floodplain	Potential Number of Individuals at Risk in 500 year Flood
2	2	25	25	58.25	18	18	41.94

Source: Analysis based on Dane County Land Information Office Data

Table 8 Properties with Primary Structures in the Floodplain

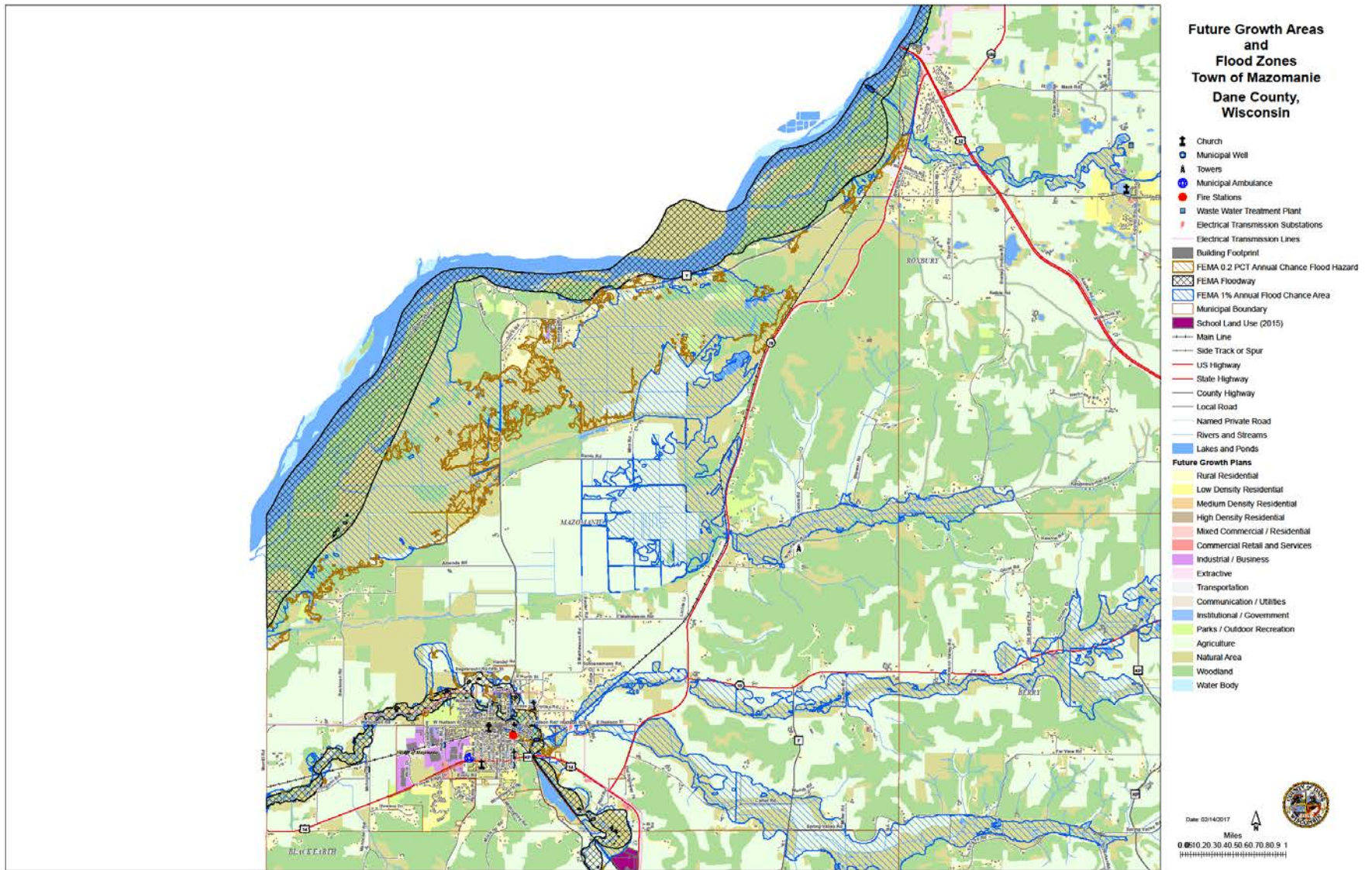
Total Floodway Properties	Floodway Improved Values	Floodway Residential Properties	Total Properties in 100 year Floodplain	Total Improved Value of Properties in 100 year Floodplain	Residential Properties in 100 year Floodplain	Total Properties in 500 year Floodplain	Total Improved Value of Properties in 500 year Floodplain	Residential Properties in 500 year Floodplain
2	\$3,500	2	14	\$676,800	14	18	\$1,019,100	18

Source: Analysis based on Dane County Land Information Office Data

Repetitive Loss Properties and Flood Insurance Policies

No repetitive losses have been reported. Flood insurance policies and loss statistics are included as part of the County plan.

Figure 1 Flood Hazards and Future Land Use Map



Tornado

While it is difficult to estimate specific losses to a tornado due to the random nature of the event, a methodology was developed that was applied to each jurisdiction during the update. The table below estimates the percent area of the jurisdiction that could be impacted based on the average sized tornado (F2) in Dane County. High value exposure is based on 100% loss, medium 50% loss, and low is 25% loss to the property potentially impacted. The loss ratio, which is the ratio of the damaged building value to total exposed building value, is a measure of the impact to the jurisdiction as a whole. Communities with loss ratios 10% or more may have difficulty recovering from a disaster. Refer to the tornado hazard profile in the main mitigation plan for more details on this methodology.

Table 9 Tornado Loss Estimate

% Area of Impact	Improved Parcel Count	Affected Structure Estimate	Total Exposed Value	Estimated Loss \$ - High Damage Range	Estimated Loss \$ - Moderate Damage Range	Estimated Loss \$ - Low Damage Range	Loss Ratio for Moderate Damage Range
2.75%	519	14	\$120,316,050	\$3,305,691	\$1,652,845.34	\$826,422.67	1.4%

Data Source: Analysis Based on Dane County Land Information Office's data

Growth and Development Trends

Planned land use is shown in Figure 1, in relation to the flood hazard. Table 10 illustrates how the Town of Mazomanie has grown in terms of population and number of housing units between 2010 and 2014-15. Housing data is to 2014 due to data availability. Table 11, drawn from the Demographics Services Center at the Wisconsin Department of Administration, shows population projections through 2035.

Table 10 Town of Mazomanie Change in Population and Housing Units, 2010-2014/15

2010 Population	2015 Population	Percent Change (%) 2010-2015	2010 # of Housing Units	2014 # of Housing Units	Percent Change (%) 2010-2014
1090	1102	1.10%	478	475	-0.6%

Source: Dane County Planning and Wisconsin Department of Administration

Table 11 Town of Mazomanie Population Projections, 2015-2035

Population Projection	2015	2020	2025	2030	2035
Increase by same percentage each year (.22%)	1,102	1,114	1,126	1,139	1,151

Data Source: Demographic Services Center, Wisconsin Department of Administration, 2015

Capability Assessment

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. This capabilities assessment summarizes regulatory mitigation capabilities, administrative and technical mitigation capabilities, and fiscal mitigation capabilities for the Town of Mazomanie.

Mitigation Capabilities Summary

Table 12 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities, or by themselves contribute to reducing hazard losses. The table also indicates which of these tools are currently utilized in the Town of Mazomanie.

Table 12 Town of Mazomanie Regulatory Mitigation Capabilities

Regulatory Tool (ordinances, codes, plans)	Yes/No
General or Comprehensive plan	Yes
Zoning ordinance	Yes
Subdivision ordinance	Yes
Growth management ordinance	No
Floodplain ordinance	Yes
Other special purpose ordinance (stormwater, steep slope, wildfire)	Yes
Building code	Yes
Fire department ISO rating	Yes
Erosion or sediment control program	Yes
Storm water management program	Yes
Site plan review requirements	Yes
Capital improvements plan	No
Economic development plan	Yes
Local emergency operations plan	No
Flood insurance study or other engineering study for streams	No
Elevation certificates (for floodplain development)	No

Data Source: Town of Mazomanie Data Collection Guide

Table 13 identifies the personnel responsible for mitigation and loss prevention activities as well as related data and systems in the Town of Mazomanie.

Table 13 Responsible Personnel and Departments for the Town of Mazomanie

Personnel Resources	Yes/No
Planner/engineer with knowledge of land development/land management practices	No
Engineer/professional trained in construction practices related to buildings and/or infrastructure	No
Planner/engineer/scientist with an understanding of natural hazards	No

Personnel Resources	Yes/No
Personnel skilled in GIS	No
Full-time Building Official	No
Floodplain Manager	No
Emergency Manager	No
Grant Writer	No
GIS Data Resources – (land use, building footprints, etc.)	No
Warning systems/services (Reverse 9-11, cable override, outdoor warning signals)	No

Data Source: Town of Mazomanie Data Collection Guide

Table 14 identifies financial tools or resources that the Town of Mazomanie could potentially use to help fund mitigation activities.

Table 14 Financial Resources for the Town of Mazomanie

Financial Resources	Accessible/Eligible to Use (Yes/No)
Community Development Block Grants	Yes
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
Fees for water, sewer, gas, or electric services	No
Impact fees for new development	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activities	No

Additional Capabilities

The homes that were damaged or destroyed by the 2008 Flood have been raised above flood level. Dane County Zoning administered all forms and permits.

Silverwood Park is owned by Dane County and is used for environmental education efforts.

National Flood Insurance Program Participation

The Town of Mazomanie does not participate in the National Flood Insurance Program as a stand-alone entity, but is covered by the County's ordinance.

Public Involvement Activities

The Town of Mazomanie community participated in the County public outreach process. This was a series of public workshops held around the County in which an overview of natural hazard mitigation was given and the County plan was discussed. Residents were then given the opportunity to give their

input on mitigation actions that could be taken, and filled out informational surveys that assessed the level of risk the perceived within their own community. More information on these meetings can be found in the County base plan.

Mitigation Actions

Objective 1: Ensure Town of Mazomanie citizens have access to information regarding natural hazard mitigation through Dane County and local news publications.

Steps:

- 1) Use Town website and newsletters to disseminate natural hazard mitigation when available.

Lead Implementing Agency: Town of Mazomanie

Supporting Agencies:

- Dane County Emergency Management

Possible Funding and Technical Assistance:

- Staff Time

Timeline: Ongoing

Priority: Medium

Estimated Costs: Staff time

Objective 2: Continue to improve screening during new building process to ensure flood mitigation issues are adequately addressed.

Steps:

- 1) Work with Dane County to monitor latest information on flood zones and flood related mitigation.
- 2) Change Town procedures and ordinances as necessary to address changing flood threats.

Lead Implementing Agency: Town of Mazomanie

Supporting Agencies:

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- Dane County Emergency Management
 - Dane County Planning and Zoning
 - Dane County Land and Water Conservation

Possible Funding and Technical Assistance:

- Staff Time

Timeline: Ongoing

Priority: Medium

Estimated Costs: Staff time

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