
The Village Of Dane Annex

Community Profile

The Village of Dane is located in the northwest quadrant of the County, north of the town of Springfield, east of the Town of Roxbury, and south of Columbia County. Land use is dominated by agriculture and woodlands, and dispersed one- and two-family homes. According to the United States Census Bureau, the Village of Dane has a total area of 1.13 square miles, all of it land.

As of the 2000 Census, there are 799 people, 279 households, and 205 families residing in the Village of Dane. The population density is 705.6 per square mile. There are 279 housing units at an average density of 254.3 per square mile. The municipality population distributed by Dane County indicates that the 2008 population for the Village of Dane was 998 people.

There are 279 households out of which 43.4% have children under the age of 18 living with them, 16.5% of all households are made up of individuals and 6.8% have someone living alone who is 65 years of age or older. The average household size is 2.86 and the average family size is 3.31. In the Village of Dane, the population is spread out with 31.5% under the age of 18, 10.4% from ages 18 to 24, 36.9% ages 25 to 44, 14.8% ages 45 to 64, and 6.4% who are 65 years of age or older. The median age is 31 years. 3.3% of the population speaks a language other than English at home and 10.5% of the population (above the age of 5) is disabled.

The median income for a household in the Village of Dane is \$51,667 and the median income for a family is \$56,250. The per capita income for the Village of Dane is \$18,533. 5.4% of the population and 3.8% of families are below the poverty line. Out of the total people living in poverty, 3.8% are under the age of 18 and 0.0% are 65 or older. 87.9% of the population has at least a high school degree, while 11.9% 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 Village of Dane using the same methodology in the 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 1 outlines the hazard identification for the Village of Dane based on the Data Collection Guide issued in 2008. 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 Village of Dane's planning team members were asked to complete the matrix by ranking each category on a scale of 0 to 3 based on the experience and perspective of each planning team member. A ranking of 0 indicated "no concern" while a ranking of 3 indicated "highest concern". This

matrix appears as Table 1. This matrix reflects the significance of the hazards relative to one another.

This matrix reflects that the Village of Dane has a medium vulnerability to flood, tornado, windstorm, and winter storm and a lower vulnerability to extreme heat and cold, drought, erosion, fog, hail storm, landslides, and lightning. The vulnerability established here is a qualitative assumption based on the impacts, geographic extent, probability of future occurrence, and magnitude/severity.

Table 1 Vulnerability Assessment Matrix for the Village of Dane

Hazard	Hazard Attributes (1-2-3)			Impact Attributes (0-1-2-3)						Total
				Primary Impact (Short Term – Life and Property)			Secondary Impact (Long Term- Community Impacts)			
	Area of Impact	Past History, Probability of Future Occurrence	Short Term Time Factors	Impact on General Structures	Impact on Critical Facilities	Impact on At-Risk Populations	Social Impact	Economic Impact	Severity of other associated secondary hazards	
Dam/Levee	0	0	0	0	0	0	0	0	0	0
Extreme Cold	1	1	1	1	1	1	1	1	1	9
Extreme Heat	0	0	0	0	0	0	0	0	0	0
Drought	0	0	0	0	0	0	0	0	0	0
Erosion	1	1	1	1	1	1	1	1	1	9
Flood	2	2	2	2	1	2	3	2	2	18
Fog	0	0	0	0	0	0	0	0	0	0
Hail Storm	1	1	1	1	1	1	1	1	1	9
Landslide	0	0	0	0	0	0	0	0	0	0
Lightning	1	1	1	1	1	1	1	1	1	9
Tornado	2	2	2	2	2	2	2	2	2	18
Wildfire	0	0	0	0	0	0	0	0	0	0
Windstorm	2	2	2	2	2	2	2	2	2	18
Winter Storm	2	2	2	2	2	2	2	2	2	18
Subsidence										
Other:										

Data Source: Village of Dane Data Collection Guide, 2009

Previous Hazard Events

Through the Data Collection Guide, the Village of Dane noted specific historic hazard events to include in the community profile. These events have been incorporated into the appropriate hazard chapters in the base plan. These events had a particular impact on the community beyond the impacts and events recorded in the Dane County Hazard Mitigation Plan. This is not a comprehensive summary of past incidents, as the hazard profiles collected in the main Mitigation Plan include other events that may have historically impacted the jurisdiction. The events noted by this jurisdiction in the Data Collection Guide include:

Flood: July 5, 1993

Extensive flood waters in the Village of Dane caused closed roads and businesses. The event occurred in the central village area of town. There were no deaths or injuries reported, but there was reported damage to a Lift station. Exact numbers were not available. The Village of Dane did receive FEMA funds in the amount of \$2,289 to help recover from the hazard. It is uncertain if The Village of Dane planning members felt such an event had a potential to occur again.

Flood: August 18, 2007

Extensive flood waters in the Village of Dane caused sewer backups, closed roads and flooding to basements. The event occurred in the central village area of town. There were no deaths or injuries reported. The event caused property damaging totaling \$43,500. It is uncertain if The Village of Dane did receive FEMA funds to help recover from the hazard. The Village of Dane planning members felt such an event had a likely potential to occur again.

Asset Inventory

Assets include the people, property, and critical facilities within the Village of Dane 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 2 Vulnerable Population Summary

Disability Status from the 2000 Census	Number	Percent
Total Population ages 5 or less	86	10.8%
Total population ages 5 to 19	180	22.5%
Total population over 65 years old	51	6.4%
Total Population with any Disability	75	10.5%
Families Below Poverty Level	8	3.8%
Individuals Below Poverty Level	43	5.4%
Total Population who Speak English less than "very well"	7	1.0%
Total Population	799	100%

Data Source: 2000 US Census

General Property

Table 3 Property Exposure Summary

Property Type	Total Parcel Count	Improved Parcel Count	Improved Values (\$)	Content (\$)	Total Value (\$)
Residential	287	272	\$40,726,500	\$20,363,250	\$61,089,750
Other	116	37	\$10,856,500	\$5,428,250	\$16,284,750
Commercial Sales	20	11	\$1,155,100	\$1,155,100	\$2,310,200
Agriculture	25	8	\$606,100	\$606,100	\$1,212,200
Commercial Services	6	4	\$113,400	\$113,400	\$226,800
Institutional Government	9	4	\$464,300	\$464,300	\$928,600
Industrial	3	2	\$707,800	\$1,061,700	\$1,769,500
Transportation	6	1	\$26,900	\$13,450	\$40,350
Utilities	3	0	\$0	\$0	\$0
TOTAL	475	339	\$54,656,600	\$29,205,550	\$83,862,150

Data Source: Dane County Land Information Office, December 2008

Critical Facilities

The Village of Dane has identified the critical facilities important to protect from disaster impacts. These are collected in Table 4. Table 4 is based on GIS data inventories from Dane County.

Table 4 Critical Facility Summary/Essential Infrastructures

Facility	Type*	No. of Facilities	Replacement Value (\$)
Electric Substation	EI	1	\$0
Fire Station	EI	1	\$0
Municipal Hall	EI	2	\$128,300
Police	EI	1	\$0
Well	EI	2	\$800,000
Extremely Hazardous Substances	HM	2	\$2,131,700
Hazardous Chemicals	HM	2	\$2,131,700
Child Care	VF	3	\$438,500
Subsidized Housing	VF	1	\$364,500
TOTAL		15	\$5,994,700

Data Source: Dane County GIS, *EI: Essential Infrastructure; VF: Vulnerable Facilities; HM: Hazardous Materials Facilities;

Other Assets

No other assets were provided for the Village of Dane.

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 the Village of Dane. Table 5 cross-references the hazards with the various tables where exposure or vulnerability specifics are found. The intent of Table 5 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 5 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 in the Floodplain

No properties were identified in the floodplain or floodway.

Repetitive Loss Properties and Flood Insurance Policies

There are no repetitive loss properties in the Village of Dane. NFIP policy information does not indicate any policies within the jurisdiction.

Critical Facilities

An analysis of critical facilities located within either the FEMA DFIRM 100-year, 500-year, or HAZUS 100-year floodplains determined that no critical facilities are at risk to flooding.

Figure 1 Flood Hazards and Future Land Use Map

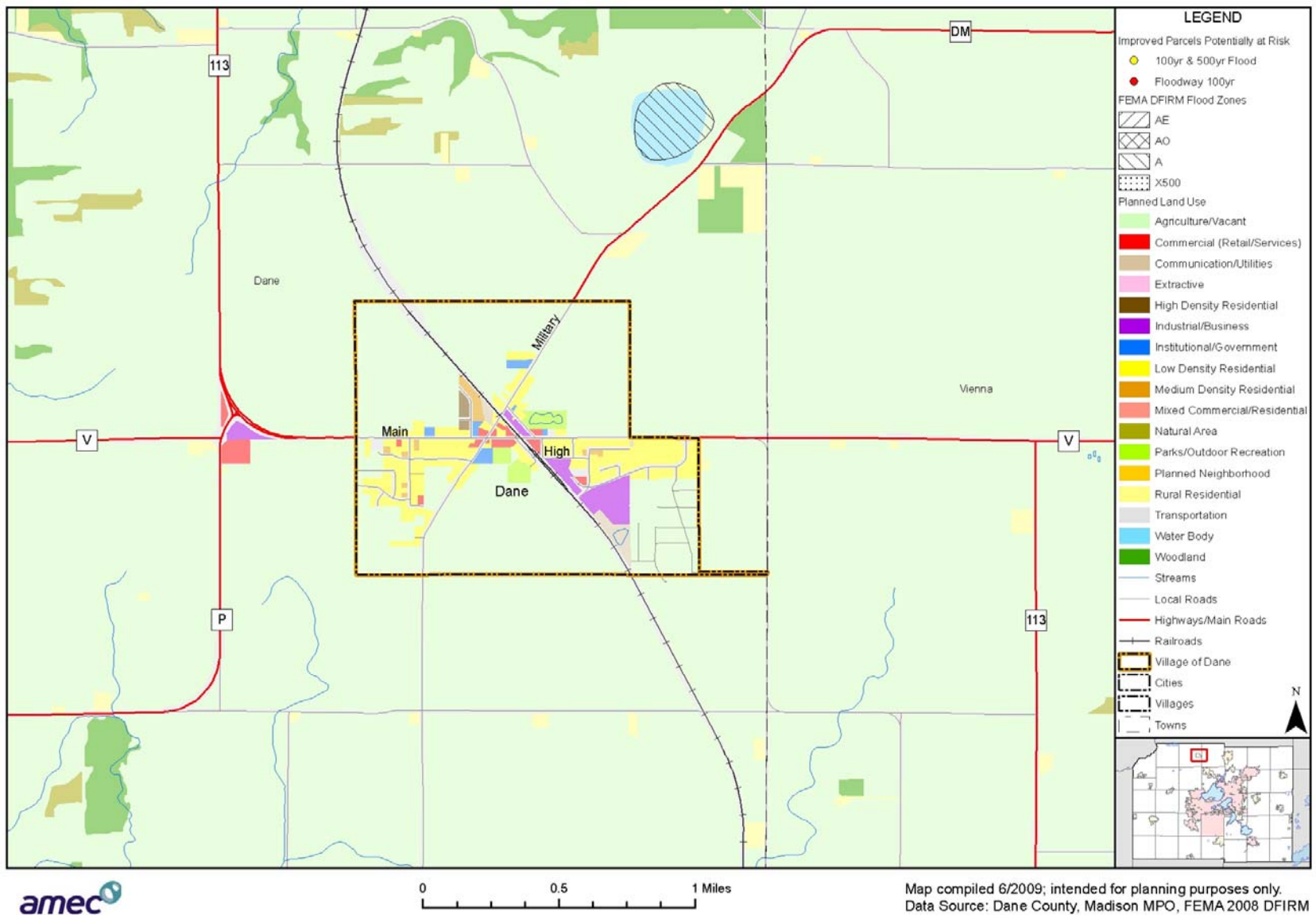
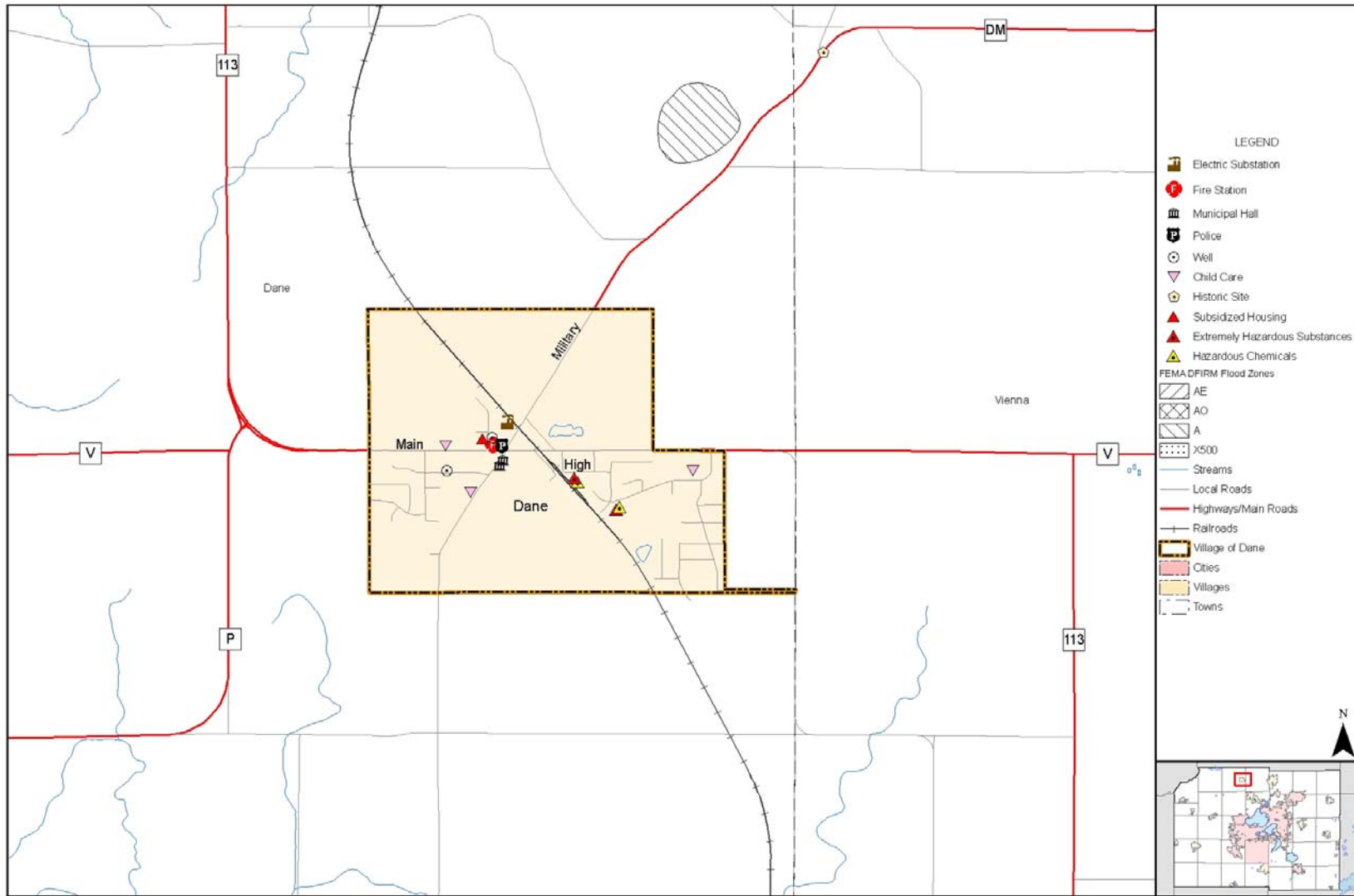


Figure 2 Flood Hazards and Critical Facilities Map



0 0.5 1 Miles

Map compiled 6/2009; intended for planning purposes only.
Data Source: Dane County, FEMA 2008 DFIRM

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 2009 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 6 Tornado Loss Estimate

% area 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
73.72%	339	250	\$83,862,150	\$61,823,593	\$30,911,796	\$7,727,949	36.9%

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 7 illustrates how the Village of Dane has grown in terms of population and number of housing units between 2000 and 2008.

Table 7 Village of Dane Change in Population and Housing Units, 2000-2008

2000 Population	2008 Population	Percent Change (%) 2000-2008	2000 # of Housing Units	2008 # of Housing Units	Percent Change (%) 2000-2008
799	958	19.8%	279	N/A	N/A

Source: Dane County and the Village of Dane. Comprehensive Plan for the Village of Dane is not in an online format.

Information for population projections through 2025 is not available.

Problems or Additional Vulnerability issues

- Some concern for several homes.
- More homes = more water in vulnerable areas.

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 Village of Dane.

Mitigation Capabilities Summary

Table 8 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 Village of Dane.

Table 8 Village of Dane Regulatory Mitigation Capabilities

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

Data Source: Village of Dane Data Collection Guide, 2009

Table 9 identifies the personnel responsible for mitigation and loss prevention activities as well as related data and systems in the Village of Dane.

Table 9 Responsible Personnel and Departments for the Village of Dane

Personnel Resources	Yes/No	Department/Position	Comments
Planner/engineer with knowledge of land development/land management practices	No		No
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Independent inspections	Yes
Planner/engineer/scientist with an understanding of natural hazards	No		No
Personnel skilled in GIS	No		No
Full-time Building Official	No		No
Floodplain Manager	No		No

Personnel Resources	Yes/No	Department/Position	Comments
Emergency Manager	No		No
Grant Writer	No		No
Other Personnel	No		No
GIS Data Resources – (land use, building footprints, etc.)	No		No
GIS Data – Links to assessor's data			
Warning systems/services (Reverse 9-11, cable override, outdoor warning signals)	No		No
Other:	No		No

Data Source: Village of Dane Data Collection Guide, 2009

Table 10 identifies financial tools or resources that the Village of Dane could potentially use to help fund mitigation activities.

Table 10 Financial Resources for the Village of Dane

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

Data Source: Village of Dane Data Collection Guide, 2009

Additional Capabilities

- All projects for stormwater control are in early planning stages.

National Flood Insurance Program Participation

Table 11 NFIP Participation for the Village of Dane

Floodplain Ordinance	Comments	Dane County FIRM Panels	NFIP Participation	Init FHBM Identified	Init FIRM Identified	Curr Eff Map Date	Reg-Emer Date
N/A		50, 75, 225, 250	No		(NSFHA)	(NSFHA)	

Data Source: FEMA National Flood Insurance Program Community Status Book.

Available online at <http://www.fema.gov/cis/WI.html>

According to this the Village has does not have a special flood hazard area mapped. NFIP participation is optional.

Public Involvement Activities

During the 2009 update, the community assisted with the public involvement activities referenced in the base plan.

Mitigation Objectives (Actions)

Objective #1: Storm water control in central village

Steps:

- 1) Project is in very early planning stages. An idea has been brought to the table, but no action is occurring at this time.

Lead Implementing Agency: N/A

Supporting Agencies: N/A

Possible Funding and Technical Assistance: Project costs unknown at this time.

Timeline: Project is in early planning stages. Will be a few years before implementation will occur.

Priority: Low

Estimated Costs: Unknown