
Town of Vermont Annex

Community Profile

The Town of Vermont is located in the Northwest quadrant of the County, West of the Village of Cross Plains, South of the Village of Black Earth, East of the Village of Mount Horeb and North of the Town of Blue Mounds. Land use is dominated by agriculture and woodlands, and dispersed one- and two-family homes.

According to the United States Census Bureau, the Town of Vermont has a total area of 35.77 square miles, all of it land.

As of the 2010 Census, there are 819 people, 325 households, and 245 families residing in the Town of Vermont. The population density is 22.9 per square mile. There are 351 housing units at an average density of 9.8 per square mile. The municipality population distributed by Dane County indicates that the 2015 population for Town of Vermont was 821 people. The population age profile for the Town of Vermont is shown in Table 1.

Table 1. Age Profile of Town of Vermont

Subject	Number	Percent
Total population	819	100.0
Under 5 years	31	3.8
5 to 9 years	42	5.1
10 to 14 years	50	6.1
15 to 19 years	61	7.4
20 to 24 years	37	4.5
25 to 29 years	18	2.2
30 to 34 years	40	4.9
35 to 39 years	24	2.9
40 to 44 years	45	5.5
45 to 49 years	77	9.4
50 to 54 years	115	14.0
55 to 59 years	99	12.1
60 to 64 years	74	9.0
65 to 69 years	41	5.0
70 to 74 years	18	2.2
75 to 79 years	25	3.1
80 to 84 years	15	1.8
85 years and over	7	0.9

The median income for a household in the Town of Vermont is \$81,071 and the median income for a family is \$91,944. The per capita income for the Town of Vermont is \$40,782. 97.9% of the population has at least a high school degree, while 43.3% 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 Vermont 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 2 outlines the hazard identification for the Town of Vermont based on the Data Collection Guide issued in 2015. 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 Vermont'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 Vermont is most vulnerable to tornadoes, windstorms, and winter storms. Flooding and wildfire were also ranked as hazards of high concern. 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 Vermont

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	Severity Of Other Associated Secondary Hazards	
	(1-5)	(1-5)	(1-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	
Dam/Levee	1	1	1	0	0	0	0	0	0	3
Extreme Cold	3	2	2	1	1	1	2	2	2	16
Extreme Heat	3	1	2	1	1	1	2	1	2	14
Drought	3	3	1	0	0	0	2	2	2	13
Expansive	0	0	0	0	0	0	0	0	0	0
Flood	2	3	2	1	1	1	1	2	2	16
Fog	2	3	3	0	0	0	1	1	1	12
Hail Storm	2	3	3	2	1	1	1	1	1	15
Landslide	1	1	1	0	0	0	0	0	0	3
Lightning	1	3	3	1	3	1	1	1	1	15
Tornado	1	3	3	2	3	1	2	2	2	19
Wildfire	2	2	2	2	2	1	2	2	1	16
Windstorm	2	2	3	2	2	1	2	2	2	18
Winter Storm	3	3	2	2	2	1	2	2	2	18

Source: Town of Vermont Data Collection Guide

Previous Hazard Events

Through the Data Collection Guide, the Town of Vermont 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. Recent events noted by this jurisdiction in the Data Collection Guide include:

Flooding: May 2000

Town-wide flooding of roads and right of way properties, crop damage and personal property damage impacted the Town. No injuries or deaths were reported, and losses were reported but are not currently available. The data collection guide indicates the event is likely to occur again.

Flooding: June 2008

Along with many other jurisdictions in Dane County, the Town of Vermont experienced wide-spread flooding during June of 2008. Roads and school closures were minimal, no injuries and deaths were reported, but damages were documented and federal assistance was provided. The event is considered likely to occur again.

Snow Storm: February 2008

Town-wide snow resulted in federal aid provisions to accommodate recovery costs from a region-wide snowstorm in early February of 2008. No injuries or deaths were reported, and no documented damages to property were forwarded, but roads, schools and businesses were closed and/or delayed. The event is considered extremely likely to occur again.

Asset Inventory

Assets include the people, property, and critical facilities within the Town of Vermont 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	7	6.1%
Population 18-64 with a Disability	19	3.8%
Population Over 65 years old with a Disability	15	14.3%
Total Population with Disability	41	5.4%

Data Source: 2014 American Community Survey

Other Vulnerable Populations	Estimate	Percentage
Families Below Poverty Level	8	3.4%
Individuals Below Poverty Level	28	3.7%
Of those poverty: Individuals Under 18	3	2.0%
Of those poverty: Individuals Over 65	8	7.6%
Total Population Over 5 who Speak English less than "very well"	5	0.7%
2014 ACS Total Population Estimate	759	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	1,080	380	69,332,700	34,666,350	103,999,050
Agriculture	528	167	27,087,100	13,543,550	40,630,650
Industrial	2	2	704,800	352,400	1,057,200
Institutional/ Governmental	1	0	0	0	0
Other	303	14	1,940,200	970,100	2,910,300
Residential	246	197	39,600,600	19,800,300	59,400,900

Data Source: Dane County Land Information Office, December 2008

Critical Facilities

The Town of Vermont has identified the following critical facilities important to protect from disaster impacts. These are collected in Table 5, which is based on GIS data inventories from Dane County.

Table 5 Critical Facility Summary/Essential Infrastructures

Facility	Type*	No. of Facilities	Replacement Value (\$)
Town Hall	EI	1	201,000
Town Garage	EI	1	313,700
Municipal Hall, Salt Shed	EI	1	100,800
TOTAL		3	615,500

*EI: Essential Infrastructure; VF: Vulnerable Facilities; HM: Hazardous Materials Facilities

Data Source: Town of Vermont Data Collection Guide

Other Assets

Other assets help define a community beyond the current composition of the Town of Vermont. 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.

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 Town of Vermont. 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

Hazard	Populations	Structures	Critical Facilities	Future Damage Potential
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 Vermont. 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
0	0	16	15	34.95	16	15	34.95

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
0	\$0	0	16	\$1,851,200	15	16	\$1,851,200	15

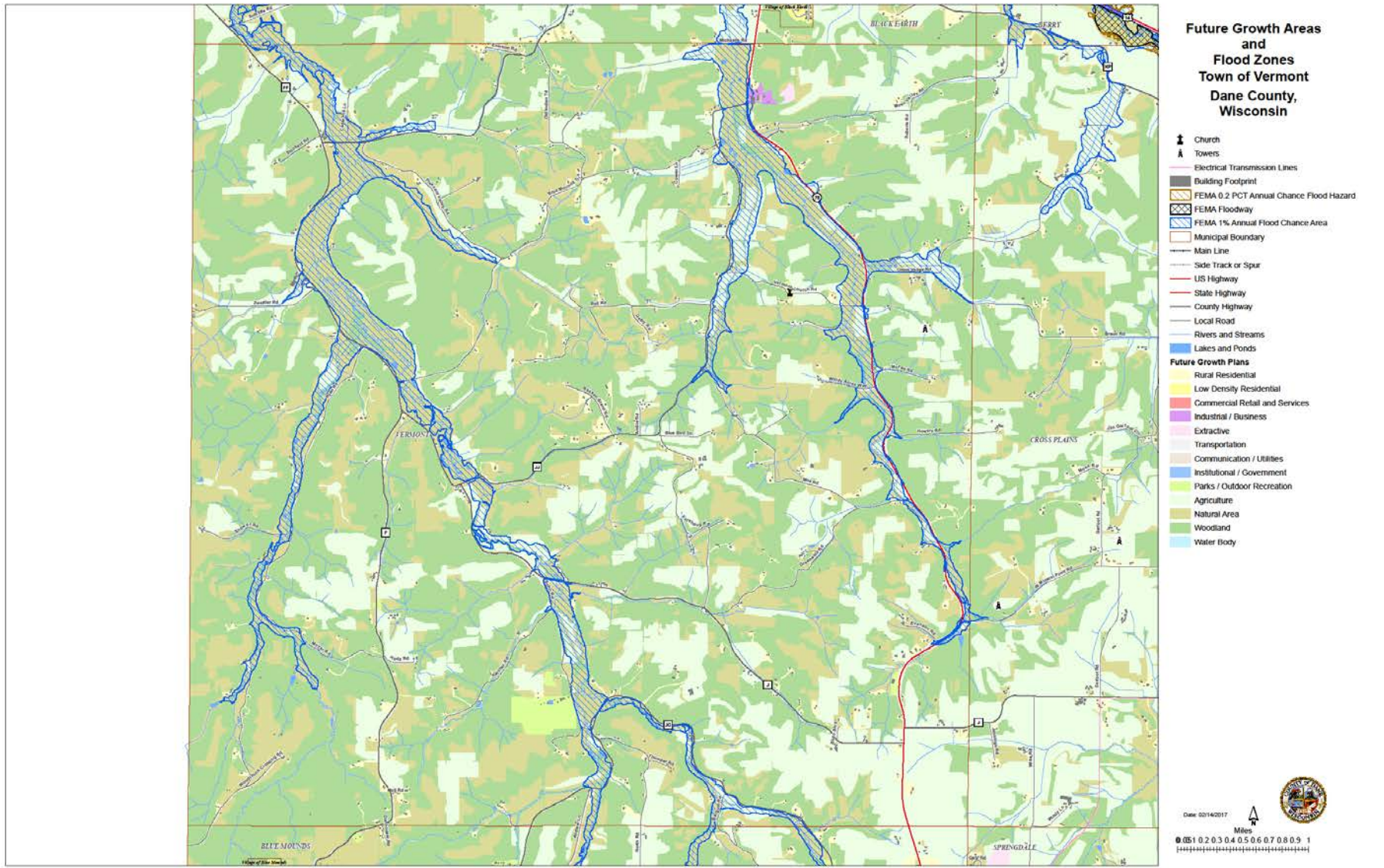
Source: Analysis based on Dane County Land Information Office Data

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.

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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 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 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
2.35%	415	10	\$113,484,000	\$2,671,383	\$1,335,691.30	\$667,845.65	1.2%

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 Vermont has grown in terms of population and number of housing units between 2000 and 2008. Table 11 shows population projections through 2025.

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

2010 Population	2015 Population	Percent Change (%) 2010-2015	Housing Units 2010	Housing Unit Permits Issued 2010-2015
1,081	1,092	0.05%	351	11

Data Source: Dane County Planning and Development, Wisconsin Department of Administration, and Capitol Area Regional Planning Commission (CARPC), 2015

Table 11 Town of Vermont Population Projections, 2015-2035

Population Projection	2015	2020	2025	2030	2035
Increase by same percentage each year	821	823	823	825	826

Data Source: Demographic Services Center, Wisconsin Department of Administration

Problems or Additional Vulnerability issues

The Data Collection Guide provided the following additional vulnerability or problem issues for the Town of Vermont:

- As noted elsewhere, standing water is usually only an issue for some cropland. Structures are seldom affected; roads impacted by flowing water.
- Ryan Road is susceptible to flooding

- There is a potential for Town of Vermont to have an increase in high-elevation building which could reduce the impact to homes from flood conditions but possibly increasing the risk of driveway/road washouts due to flooding. Homes at higher elevations may also increase the impact on residents from snowstorms.

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 Vermont.

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 Vermont.

Table 12 Town of Vermont Regulatory Mitigation Capabilities

Regulatory Tool (ordinances, codes, plans)	Yes/No	Comments
General or Comprehensive plan	Yes	http://www.vermonttownship.com/land-use/comprehensive-plan
Zoning ordinance	Yes	http://www.vermonttownship.com/ordinances/land-division
Subdivision ordinance	NA	http://www.vermonttownship.com/ordinances/land-division
Growth management ordinance	Yes	http://www.vermonttownship.com/ordinances/land-division
Floodplain ordinance	Yes	http://www.vermonttownship.com/ordinances/land-division
Other special purpose ordinance (stormwater, steep slope, wildfire)	Yes	http://www.vermonttownship.com/ordinances/roads-driveways
Building code	Yes	http://www.vermonttownship.com/ordinances/buildings
Erosion or sediment control program	Yes	Dane County
Storm water management program	Yes	Dane County
Site plan review requirements	Yes	Town Plan Commission
Capital improvements plan	No	Road Primarily
Economic development plan	No	
Local emergency operations plan	No	Currently only for elections
Other special plans	No	
Flood insurance study or other engineering study for streams	No	

Data Source: Data Collection Guide for the Town of Vermont, 2015

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

Table 13 Responsible Personnel and Departments for the Town of Vermont

Personnel Resources	Yes/No	Department/Position	Comments
Planner/engineer with knowledge of land development/land management practices	No	Dane County	
Engineer/professional trained in construction practices related to buildings and/or infrastructure	No	Contract	Johnson Inspection LLC
Planner/engineer/scientist with an understanding of natural hazards	No		
Personnel skilled in GIS	No	Dane County	
Full-time Building Official	Yes	Town Patrolman	
Floodplain Manager	No		
Emergency Manager	No		
Grant Writer	No		
Other Personnel	No		
GIS Data Resources – (land use, building footprints, etc.)	No		
Warning systems/services (Reverse 9-11, cable override, outdoor warning signals)	No		

Data Source: Data Collection Guide for the Town of Vermont, 2015

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

Table 14 Financial Resources for the Town of Vermont

Financial Resources	Accessible/Eligible to Use (Yes/No)
Community Development Block Grants	No
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	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activities	Yes

Data Source: Data Collection Guide for the Town of Vermont, 2015

National Flood Insurance Program Participation

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

Public Involvement Activities

The Town of Vermont 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

Mitigation Activities Since 2010 Plan

The Town of Vermont has completed or is in the process of completing several mitigation activities since the 2009 plan was complete. As reported by the Town, they are:

- An addition was completed to the salt shed as well as the installation of an emergency generator for Town Hall and the Town Garage.
- The Bergum Road culvert was replaced and the Vermont Church road culvert will be replaced in 2016.

2015 Mitigation Actions

Objective 1: Continue focus on monitoring and roads and culverts for flooding issues and take action when needed. Continue adherence to the Town of Vermont's tree maintenance policy for mitigating potential wind/ice falls.

Lead Implementing Agency: The Town of Vermont will act as the general contractor.

Supporting Agencies: Town of Vermont

Possible Funding and Technical assistance: Staff Time

Priority: High

Estimated Costs: Staff Time

Objective 2: Install interoperable communication equipment once DaneCom is functional

Steps:

Continue coordination with Dane County and take appropriate steps to install equipment when ready.

Lead Implementing Agency: Town of Vermont

Supporting Agencies: Dane County Emergency Management

Timeline: The timeline is unknown.

Priority: This project is currently a medium priority.

Estimated Cost: Unknown

Objective 3: Create a page on Town of Vermont website with educational information related to hazard mitigation

Steps:

Create page on Town website

Disseminate information regarding steps residents can take to mitigate natural hazards and highlight Town's efforts

Lead Implementing Agency: Town of Vermont

Supporting Agencies: Dane County Emergency Management

Timeline: Unknown

Priority: Medium

Estimated Cost: Staff Time