Town of Montrose Annex

Community Profile

The Town of Montrose is located in the Southwest quadrant of the County, east of the Town of Primrose, south of the Town of Verona, and west of the Town of Oregon. Land use is primarily agricultural, residential and other undeveloped uses. According to the United States Census Bureau, the town has a total area of 33.9 square miles, of which, 34.3 square miles of it is land and 0.2 square miles of it is water.

As of the 2010 Census, there are 1,081 people, 434 households, and 321 families residing in the Town of Montrose. The population density is 31.9 people per square mile. There are 453 housing units at an average density of 13.4 housing units per square mile. Of these housing units, 369 are owner occupied and 65 are renter occupied. The municipality population distributed by Dane County indicates that the 2016 population for Town of Montrose was 1,096 people. Table 1 gives the population profile by age for the Town of Montrose as of the 2010 Census. The median age in Montrose is 47 years old.

Table 1 Population Age Profile

Subject	Number	Percent
Total population	1,081	100.0
Under 5 years	44	4.1
5 to 9 years	56	5.2
10 to 14 years	69	6.4
15 to 19 years	66	6.1
20 to 24 years	66	6.1
25 to 29 years	38	3.5
30 to 34 years	42	3.9
35 to 39 years	42	3.9
40 to 44 years	65	6.0
45 to 49 years	112	10.4
50 to 54 years	113	10.5
55 to 59 years	121	11.2
60 to 64 years	103	9.5
65 to 69 years	36	3.3
70 to 74 years	38	3.5
75 to 79 years	39	3.6
80 to 84 years	22	2.0
85 years and over	9	0.8

Data Source: 2010 U.S. Census

According to the 2014 American Community Survey, the median income for a household in the Town of Montrose is $71,667 and the median income for a family is $109,870. The per capita income for the Town of Montrose is $40,708. 94.1% of the population has at least a high school degree, while 31.0% 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 Montrose 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 Montrose 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. Town of Montrose'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 Montrose is most vulnerable to tornado, flooding, winter storm, and extreme cold. Hail and drought also ranked fairly high in this assessment. The vulnerability established here is a qualitative assumption based on the impacts, geographic extent, probability of future occurrence, and magnitude/severity.

Table 2 Vulnerability Assessment Matrix for the Town of Montrose

Hazard	Hazard Attributes			Impact Attributes						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	
	(1-5)	(1-5)	(1-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	
Dam Failure	0	0	0	0	0	0	0	0	0	**0**
Extreme Cold	3	4	3	2	2	4	3	3	3	**27**
Extreme Heat	3	1	2	1	1	4	1	1	2	**16**
Drought	4	2	2	0	0	3	3	3	3	**20**
Expansive soils	0	0	0	0	0	0	0	0	0	**0**
Flood	4	4	3	3	2	3	3	3	3	**28**
Fog	3	3	1	1	1	1	1	1	1	**13**
Hail Storm	3	4	2	2	2	2	2	2	2	**24**
Landslide	0	0	0	0	0	0	0	0	0	**0**
Lightning	1	1	1	1	1	1	1	1	1	**9**
Tornado	4	4	3	4	3	4	3	3	3	**31**
Wildfire	1	1	1	1	1	1	1	1	1	**9**
Windstorm	4	3	2	2	2	3	3	3	3	**25**
Winter Storm	4	4	3	2	2	3	3	3	3	**27**

Previous Hazard Events

Through the Data Collection Guide, the Town of Montrose 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:

February 5-6 2008: Winter Storm

Record snowfall affected the entire Town of Montrose during early February of 2008. There were no reports of injuries, deaths, property, crop or infrastructure damage, but impacts on business and the economy were unavailable. The snow resulted in delays and closures along roadways, and in schools and businesses. The Town of Montrose received FEMA funds in the amount of $4,181 for disaster relief. The Town of Montrose planning members feel such an event is very likely to occur again.

July 3-7, 2008: Flooding

Flooding affected the Town of Montrose. The event occurred at Schaller & Remy Roads. There were no deaths or injuries reported, but there was reported damage to property as a loss of 20 tons of shoulder aggregate material. Crop damage was reported by farmers. No business or other impacts occurred. The Town of Montrose received FEMA funds in the amount of $1,389 to help recover from the hazard. The Town of Montrose planning members feel such an event is very likely to occur again.

January 31-February 3, 2011: Sever Winter Storm

A severe winter storm struck much of Southeast and Southcentral Wisconsin and left between 8 and 24 inches of snow across the region. Coupled with blizzard level winds, snow drifts of 4-10 feet were reported. A Presidential Disaster Declaration was made as a result of this storm and Montrose received a $6,285.13 payment for expenses incurred due to the storm.

June 16, 2014: High Winds

A wind storm impacted the Town of Montrose and left several wheat fields flattened and multiple trees blow down. There was no other property damage reported due to the storm and no other property damage was reported.

Asset Inventory

Assets include the people, property, and critical facilities within the Town of Montrose 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	Estimate	Percent of Group with Disability
Population Under 5 years old with a Disability	0	0%
Population 5-17 years old with a Disability	3	1.7%
Population 18-64 with a Disability	42	6.8%
Population Over 65 years old with a Disability	59	28.2
Total Population with Disability	104	10.3%

Data Source: 2014 American Community Survey

Other Vulnerable Populations	Estimate	Percentage
Families Below Poverty Level	3	1%
Individuals Below Poverty Level	19	1.9%
Of those poverty: Individuals Under 18	3	1.7%
Of those poverty: Individuals Over 65	0	0%
Total Population Over 5 who Speak English less than "very well"	3	0.3%
2014 ACS Total Population Estimate	1009	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	**1,164**	**469**	**79,720,900**	**39,860,450**	**119,581,350**
Agriculture	629	182	33,640,300	16,820,150	50,460,450
Commercial	23	14	2,269,500	1,134,750	3,404,250
Institutional/ Governmental	12	4	577,500	288,750	866,250
Other	224	15	1,507,900	753,950	2,261,850
Residential	276	254	41,725,700	20,862,850	62,588,550

Source: Dane County Land Information Office, 2015

Critical Facilities

The Town of Montrose has identified the following critical facilities important to protect from disaster impacts. These are collected in Table 5.

Table 5. Critical Facility Summary/Essential Infrastructures

Name of Asset	Type*	Replacement Value ($)	Occupancy/ Capacity (#)	Hazard Specific Issues
Wetlands	N/A		N/A	
Public Works Garage	EI	$89,000	N/A	
Town Hall	EI	$473,101	N/A	
Bridges	EI		N/A	
Roads	EI		N/A	
Public Works	EI		N/A	
Equip/Vehicle	EI	$376,367	N/A	
*EI: Essential Infrastructure; VF: Vulnerable Facilities; HM: Hazardous Materials Facilities; NA: natural assets				

Data Source: Town of Montrose 2015 Data Collection Guide

Other Assets

Other assets help define a community beyond the current composition of the Town of Montrose. 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 Montrose has identified these other assets in Table 5. Hazard specific vulnerabilities are noted, where known.

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 Montrose 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

Hazard	Populations	Structures	Critical Facilities	Future Damage Potential
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 Hazard

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 Montrose. 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	12	27.96	21	18	41.94

Source: Analysis based on Dane County Land Information Office Data

Table 8. Properties with Primary Structures in the Floodplain

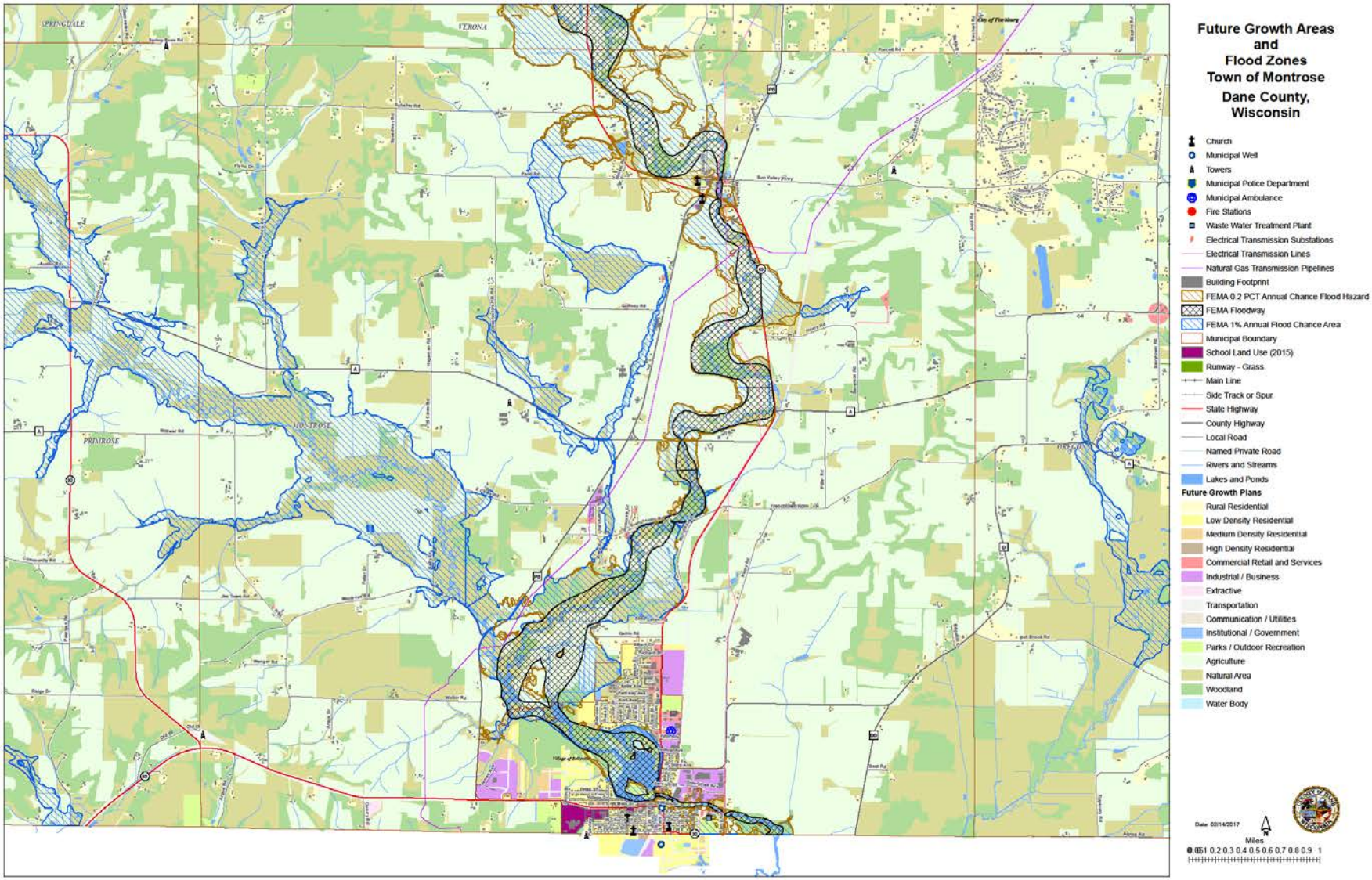
Total Floodway Properties	Floodway Improved Values	Floodway Residential Properties	Total Properties in 100 year Floodplain	Total Improved Value of Properties in 100 year Floodplain	Residential Properties in 100 year Floodplain	Total Properties in 500 year Floodplain	Total Improved Value of Properties in 500 year Floodplain	Residential Properties in 500 year Floodplain
0	$0	0	15	$1,732,700	12	21	$2,141,200	18

Source: Analysis based on Dane County Land Information Office Data

Repetitive Loss Properties and Flood Insurance Polices

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 2015 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
2.48%	506	13	$131,662,950	$3,264,914	$1,632,456.82	$816,228.41	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 Montrose has grown in terms of population and number of housing units between 2010 and 2015. Table 11 shows population projections through 2035.

Table 10. Town of Montrose Change in Population and Housing Units, 2010-2015

2010 Population	2015 Population	Percent Change (%) 2010-2015	Housing Unit Permits Issued 2010-2015
1,081	1,092	0.2%	19

Data Source: Dane County Planning and Development and Wisconsin Department of Administration 2015

Table 11. Town of Montrose Population Projections, 2015-2035

Population Projection	2015	2020	2025	2030	2035
Increase by same percentage each year	1092	1094	1096	1098	1101

Data Source: Dane County Planning and Development and 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 Montrose.

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 Montrose.

Table 12. Town of Montrose Regulatory Mitigation Capabilities

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

Data Source: Town of Montrose 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 Montrose.

Table 13. Responsible Personnel and Departments for the Town of Montrose

Personnel Resources	Yes/No	Department/Position	Comments
Planner/engineer with knowledge of land development/land management practices	Yes	Land Use Chair and Committee	
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Building Inspectors and Board Chairperson and Supervisors	
Planner/engineer/scientist with an understanding of Natural Hazard s	No		
Personnel skilled in GIS	Yes	Land Use Chair, Town Clerk	
Full-time Building Official	No		Part time Building Inspector
Floodplain Manager	No		
Emergency Manager	Yes	Town Clerk	
Grant Writer	No		
Warning systems/services (Reverse 9-11, cable override, outdoor warning signals)	Yes	Outdoor warning siren	

Data Source: Town of Montrose Data Collection Guide

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

Table 14. Financial Resources for the Town of Montrose

Financial Resources	Accessible/Eligible to Use (Yes/No)
Community Development Block Grants	No
Capital improvements project funding	Yes
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	No
Incur debt through special tax bonds	No
Incur debt through private activities	No

Data Source: Town of Montrose Data Collection Guide

Additional Capabilities

The Town has an Emergency Management Plan for officials.

National Flood Insurance Program Participation

The Town of Montrose 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 Montrose 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

Completed Mitigation Actions

The Town of Montrose 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:

- The culverts on Observatory Road, Range Trail, and Remy Road were replaced to avoid additional flooding
- Existing culverts on Viney Road were replaced with concrete culverts to allow flood waters to go through culverts and not wash out the road. The portion of the road washed out by flooding was replaced.
- The Town is currently in the process of setting up the town hall as an emergency shelter for excessive heat and cold.
- The Flynn Creek Bridge and its approaches are scheduled to be replaced in 2017
- The County Highway A and PB Bridges are pending replacement in the next few years
- The Paoli Snowmobile Bridge was replaced

Proposed Mitigation Actions

Objective 1: Replace Frenchtown and Fritz Road culvert.

Steps:

1) Replaced culvert

Lead Implementing Agency: Town of Montrose

Supporting Agencies: Dane County Highway and Transportation Department.

Possible Funding and Technical Assistance:

Timeline: As soon as possible

Priority: High

Objective 2: Complete Flynn Creek bridge project. The NBI rating for the culvert is 3 and the Sufficiency Rating is 47.4. Since the sufficiency rating is below 50, the bridge is scheduled for replacement.

Steps:

1.) Temporary/permanent routing of overhead and pole locations by Alliant Energy

2.) Detour Routes

3.) Public meetings for residents with impacts

Involved Agencies: Dane County Highway and Transportation Department, JSD Professional Services Inc under 3 party agreement with State and Town of Montrose

Cost: $265,000

Possible Funding and Technical Assistance: Bridge Aid

Timeline: In Progress

Priority: High