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## Village of Oregon Annex

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### Community Profile

The Village of Oregon is located in the southeast quadrant of the County, north of the village of Brooklyn, east of the City of Fitchburg, and south of the City of Madison. Land use is dominated by agriculture and woodlands, and dispersed one, two and multi-family homes. According to the United States Census Bureau, the Village of Oregon has a total area of 4 square miles, all of it land.

As of the 2010 Census, there are 9,231 people, 3,589 households, and 2,527 families residing in the Village of Oregon. The population density is 2,089.5 per square mile. There are 3,775 housing units at an average density of 854.5 per square mile. The municipality population information distributed by the Wisconsin Department of Administration indicates that the 2015 population for Village of Oregon was 9,575 people. Table 1 shows the population profile by age for the Village of Oregon according to the 2010 Census.

**Table 1 Population Profile of Village of Oregon**

Category	Number	Percent
Total population	9,231	100.0
Under 5 years	632	6.8
5 to 9 years	761	8.2
10 to 14 years	796	8.6
15 to 19 years	642	7.0
20 to 24 years	383	4.1
25 to 29 years	527	5.7
30 to 34 years	645	7.0
35 to 39 years	684	7.4
40 to 44 years	807	8.7
45 to 49 years	810	8.8
50 to 54 years	665	7.2
55 to 59 years	577	6.3
60 to 64 years	415	4.5
65 to 69 years	281	3.0
70 to 74 years	183	2.0
75 to 79 years	134	1.5
80 to 84 years	122	1.3
85 years and over	167	1.8

Data Source: 2010 U.S. Census

American Community Survey estimates for 2014 indicate that the median income for a household in the Village of Oregon is \$74,119 and the median income for a family is \$86,867. The per capita income for

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the Village of Oregon is \$34,400. 97.3% of the population has at least a high school degree, while 37.3% of the population holds at least a bachelor's level degree.

## **Hazard Identification and Risk Assessment**

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 Village of Oregon 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 Village of Oregon'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 Village of Oregon is most vulnerable to flooding. The Village of Oregon has a medium vulnerability severe heat and cold, tornado, windstorm, and winter storm. 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 Village of Oregon**

Hazard	Hazard Attributes (1-5)			Impact Attributes (0-5)						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	1	1	1	0	0	0	0	0	0	3
Extreme Cold	3	3	3	3	3	3	3	3	3	27
Extreme Heat	3	3	3	3	3	3	3	3	3	27
Drought	1	1	1	0	0	0	0	0	0	3
Erosion	1	1	1	0	0	0	0	0	0	3
Flood	5	5	5	5	5	5	5	5	5	45
Fog	1	1	1	0	0	0	0	0	0	3
Hail Storm	1	1	1	0	0	0	0	0	0	3
Landslide	1	1	1	0	0	0	0	0	0	3
Lightning	1	1	1	0	0	0	0	0	0	3
Tornado	3	3	3	3	3	3	3	3	3	27
Wildfire	1	1	1	0	0	0	0	0	0	3
Windstorm	3	3	3	3	3	3	3	3	3	27
Winter Storm	3	3	3	3	3	3	3	3	3	27

Data Source: Village of Oregon

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## Previous Hazard Events

The hazard events that have impacted the Village of Oregon in the past have all been noted in the County base plan.

## Asset Inventory

Assets include the people, property, and critical facilities within the Village of Oregon 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	145	6.9
Population 18-64 with a Disability	333	5.9
Population Over 65 years old with a Disability	408	45.0
Total Population with Disability	886	9.3

Source: 2014 American Community Survey

Other Vulnerable Populations	Estimate	Percentage
Families Below Poverty Level	104	3.9
Individuals Below Poverty Level	534	5.6
Of those poverty: Individuals Under 18	185	6.9
Of those poverty: Individuals Over 65	94	10.4
Total Population Over 5 who Speak English less than "very well"	39	0.4
2014 ACS Total Population Estimate	9629	100%

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 (\$)
<b>Totals</b>	<b>3,353</b>	<b>2,847</b>	<b>601,364,000</b>	<b>300,682,000</b>	<b>902,046,000</b>
Agriculture	13	1	62,000	31,000	93,000
Commercial	116	101	41,156,500	20,578,250	61,734,750
Utilities	24	0	0	0	0
Industrial	16	16	8,253,100	4,126,550	12,379,650
Institutional/ Governmental	41	8	4,192,300	2,096,150	6,288,450
Other	488	157	59,625,200	29,812,600	89,437,800
Residential	2,655	2,564	488,074,900	244,037,450	732,112,350

Source: Dane County Land Information Office, 2015

### **Critical Facilities**

The Village of Oregon has identified the following critical facilities important to protect from disaster impacts. These are collected in Table 5 which was created with information provided by the Village of Oregon.

**Table 5 Other Specific Assets for the Village of Oregon**

Name of Asset	Type*	Replacement Value (\$)	Occupancy/ Capacity (#)	Hazard Specific Issues
Oregon Senior Center	VF	Unknown	Unknown	Elderly
Oregon Nursing Home	VF	Unknown	Unknown	Elderly
Sienna Crest/Meadows	VF	Unknown	Unknown	Elderly
Wolfe Street Apartments	VF	Unknown	Unknown	Elderly
2500 S. Oak St./Genesis	VF	Unknown	Unknown	Elderly
Waterman St. Apts.	VF	Unknown	Unknown	Elderly
Dean Clinic	EI	Unknown	Unknown	Health Care
UW Health	EI	Unknown	Unknown	Health Care
Oregon High School	VF	Unknown	Unknown	Children
Rome Corners Inter. School	VF	Unknown	Unknown	Children
Oregon Middle School	VF	Unknown	Unknown	Children
Netherwood Knoll	VF	Unknown	Unknown	Children

Name of Asset	Type*	Replacement Value (\$)	Occupancy/Capacity (#)	Hazard Specific Issues
Prairie View Elementary	VF	Unknown	Unknown	Children
Public Works	EI	Unknown	Unknown	Emergency Response
Police	EI	Unknown	Unknown	First Responder/EOC
Fire/EMS	EI	Unknown	Unknown	First Responder
Wastewater Treatment	EI	Unknown	Unknown	Critical Resource
Water Towers (3)	EI	Unknown	Unknown	Critical Resource
Wells (3)	EI	Unknown	Unknown	Critical Resource
US Hwy. 14	EI	Unknown	Unknown	Main Access Route
CTH MM	EI	Unknown	Unknown	Main Access Route
State Hwy. 138	EI	Unknown	Unknown	Main Access Route
Village Hall	EI	Unknown	Unknown	Govt. Planning Coord.
Alliant Substation	EI	Unknown	Unknown	Power Source
War Monument	NA	Unknown	Unknown	Historic Site
After School Club	VF	Unknown	Unknown	Children
Precious Lambs Preschool	VF	Unknown	Unknown	Children
Foxboro Child Care	VF	Unknown	Unknown	Children
Little Angels Preschool	VF	Unknown	Unknown	Children
Little Folks Growing Center	VF	Unknown	Unknown	Children
Lullabies N' Love Daycare	VF	Unknown	Unknown	Children
Oregon Daycare	VF	Unknown	Unknown	Children
Oregon Preschool	VF	Unknown	Unknown	Children
Oregon Youth Center	VF	Unknown	Unknown	Children
Oregon Swimming Pool	VF	Unknown	Unknown	Children
Oregon Public Library	VF	Unknown	Unknown	Children
Stoughton Hospital/Rehab	EI	Unknown	Unknown	Health Care
Oregon Community Sports Arena	VF	Unknown	Unknown	Children
Oregon Historical Society	EI	Unknown	Unknown	Historic Site
Oregon Chamber of Commerce	EI	Unknown	Unknown	Financial

\*EI: Essential Infrastructure; VF: Vulnerable Facilities; HM: Hazardous Materials Facilities; NA: natural assets

Data Source: Village of Oregon

## 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 Oregon. 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
<b>Dam Failure</b>	None	None	None	Specifics unknown; See hazard profile in County Plan
<b>Drought</b>	Minimal	None	Minimal	Specifics unknown; See hazard profile in County Plan
<b>Flooding</b>	See section below	See section below	See section below	See section below
<b>Fog</b>	Minimal	None	None	Specifics unknown; See hazard profile in County Plan
<b>Hailstorm</b>	Minimal	See Property Exposure table 3	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
<b>Landslide/ Sinkholes/ Erosion</b>	Minimal	Minimal	Minimal	Specifics unknown; See hazard profile in County Plan
<b>Lightning</b>	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
<b>Severe Cold</b>	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
<b>Severe Heat</b>	See Table 2 Population	None	Minimal	Specifics unknown; See hazard profile in County Plan
<b>Severe Winter Storm</b>	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
<b>Tornado</b>	See Table 2 Population	See section below	See Critical Facility Inventory Table(s)	See section below
<b>Wildfire</b>	Minimal	Minimal	Minimal	Specifics unknown; See hazard profile in County Plan
<b>Windstorm</b>	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 Village of Oregon. 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	10	5	11.65	28	11	25.63

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	7	\$8,050,100	2	28	\$13,452,500	11

Source: Analysis based on Dane County Land Information Office Data

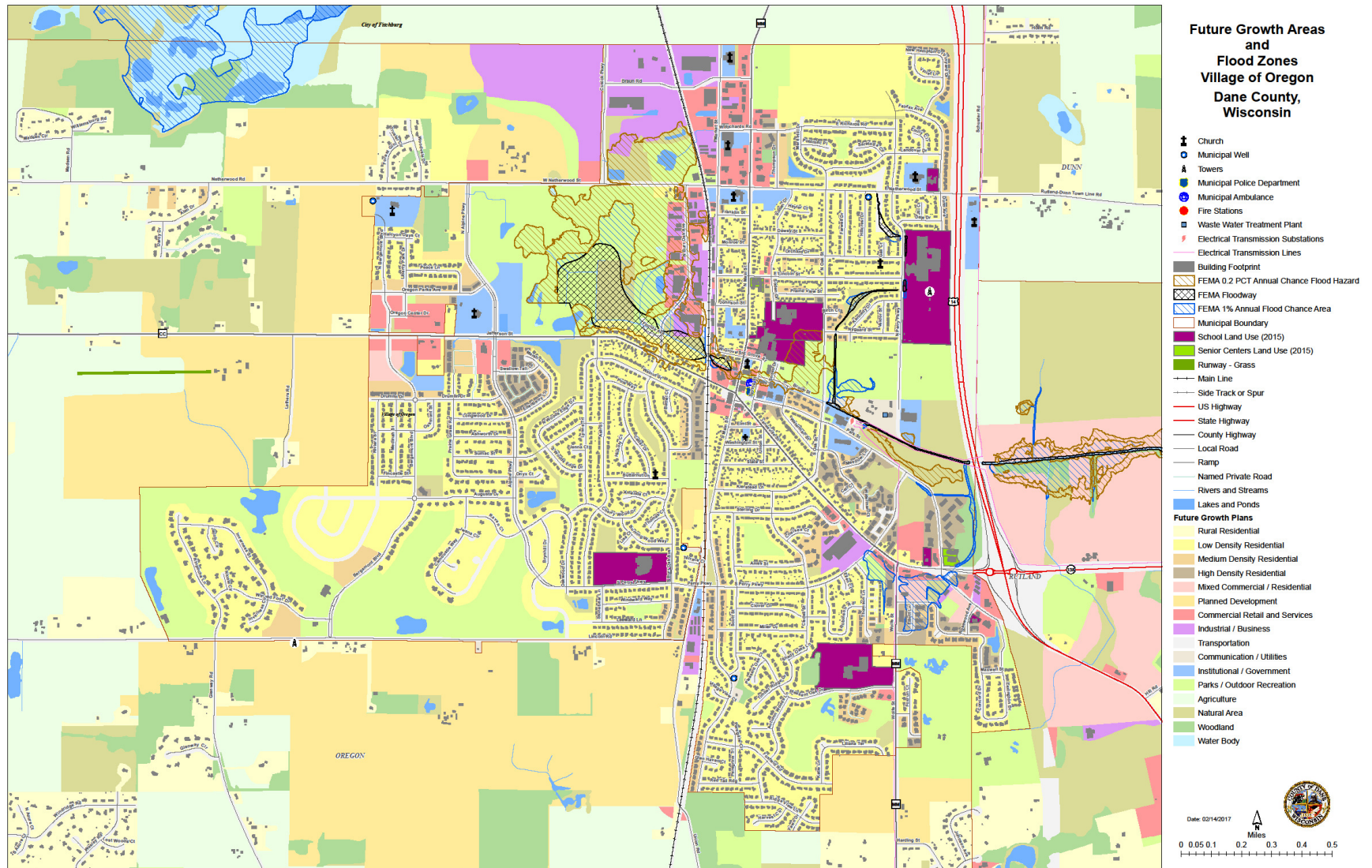
### Repetitive Loss Properties and Flood Insurance Policies

The Village of Oregon has two repetitive loss policies, both of which were mitigated.

According to FEMA Policy and Claim Statistics for Flood Insurance, the community has 6 flood insurance policies, with a total coverage amount of \$1,680,000. There have been 22 claims and \$214,519 in losses paid in flood insurance claims since 1978.



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
19.37%	3534	685	\$1,084,901,700	\$210,136,932	\$105,068,465.97	\$52,534,232.99	9.7%

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 Village of Oregon 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 Village of Oregon 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
9,231	9,575	3.73%	3,775	3,949	4.6%

Data Source: Dane County and Wisconsin Department of Administration

**Table 11 Village of Oregon Population Projections, 2015-2035**

Population Change	5 year Growth %	2015	2020	2025	2030	2035
Increase by same percentage each year	0.73%	9,575	9,927	10,291	10,669	11,061

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

## Problems or Additional Vulnerability Issues

The Village of Oregon has not identified any additional problems or vulnerability issues.

## **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 Oregon.

### **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 Village of Oregon.

**Table 12 Village of Oregon Regulatory Mitigation Capabilities**

<b>Regulatory Tool (ordinances, codes, plans)</b>	<b>Yes/No</b>	<b>Comments</b>
General or Comprehensive plan	Yes	
Zoning ordinance	Yes	
Subdivision ordinance	Yes	
Growth management ordinance	No	
Floodplain ordinance	Yes	Updated 6/6/2016
Other special purpose ordinance (stormwater, steep slope, wildfire)	Yes	
Building code	Yes	
Fire department ISO rating	Yes	
Erosion or sediment control program	Yes	
Stormwater management program	Yes	
Site plan review requirements	Yes	
Capital improvements plan	Yes	
Economic development plan	No	
Local emergency operations plan	Yes	
Other special plans	No	
Flood insurance study or other engineering study for streams	No	
Elevation certificates (for floodplain development)	Yes/No	

Data Source: Village of Oregon

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

**Table 13 Responsible Personnel and Departments for the Village of Oregon**

Personnel Resources	Yes/No	Department/Position
Planner/engineer with knowledge of land development/land management practices	No	Contractor
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Director of Public Works
Planner/engineer/scientist with an understanding of natural hazards	Yes	Director of Public Works
Personnel skilled in GIS	No	Contractor
Full-time Building Official	No	Contractor
Floodplain Manager	Yes	Director of Public Works
Emergency Manager	Yes	Police Chief
Grant Writer	No	
Other Personnel	No	
GIS Data Resources – (land use, building footprints, etc.)	No	
GIS Data – Links to assessor’s data		
Warning systems/services (Reverse 9-11, cable override, outdoor warning signals)	No	Dane County

Data Source: Village of Oregon

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

**Table 14 Financial Resources for the Village of Oregon**

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

Financial Resources	Accessible/Eligible to Use (Yes/No)
Incur debt through special tax bonds	Yes
Incur debt through private activities	No

Data Source: Village of Oregon

### Additional Capabilities

The Village of Oregon identified the following additional capabilities for mitigating natural hazards.

- Replaced 72” culvert pipe through the Village. Main drainage channel through town.
- Continually looking for ways to contain stormwater run off from the west side of the Village and Town of Oregon lands.
- Village’s stormwater ordinance is consistent with State law.
- Will build stormwater ponds

### National Flood Insurance Program Participation

**Table 15 NFIP Participation for the Village of Oregon**

Floodplain Ordinance	Dane County FIRM Panels	NFIP Participation	Init FHBM Identified	Init FIRM Identified	Curr Eff Map Date	Reg-Emer Date
Yes	592, 611	Yes	5/24/1974	9/30/1980	9/17/2014	9/30/1980

Source: FEMA National Flood Insurance Program Community Status Book

### Public Involvement Activities

The Village of Oregon 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 Objectives (Actions)

#### Completed Mitigation Actions

The Village of Oregon has been active in mitigating the risk natural hazards pose to the community. Since the completion of the 2010 Natural Hazard Mitigation Plan, several actions have been taken to mitigate the effects of natural hazards. These actions include:

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- Implementing a system of tornado sirens that will alert residents to the impending hazards that may cause significant damage to the area.
  - Securing grant funding from the hazard mitigation assistance program to purchase homes in high risk areas. A total of six homes were purchased in flood prone areas.
  - Completing and implementing a Comprehensive Stormwater Management Plan. This goal was completed, but is continued in this version of the plan.

### **Proposed Mitigation Actions**

The following mitigation actions are proposed to continue into the next five year planning cycle:

**Objective 1:** Complete and implement a Comprehensive Storm Water Management Plan.

Steps:

- 1) Implement the recommendations of the Comprehensive Storm Water Management Plan.
- 2) Develop a detailed five-ten year Capital Improvement Program to implement the recommendations of the Plan.
- 3) Seek funding from grants or other possible funding opportunities to complete the recommendations of the Capital Improvement Program.

Lead Implementing Agency: Village of Oregon

Supporting Agencies:

- Dane County Emergency Management
- Wisconsin Department of Natural Resources
- Federal Emergency Management Agency

Possible Funding and Technical Assistance:

- Urban Non-Point Source Construction Grant

Time Line: In process

Priority: High

Estimated Cost: Cost to implement recommendations is unknown as new recommendations are made each year in Capital Improvements Plan.

Update: The plan has been completed, but is in continuous implementation. Each year new stormwater improvements are proposed in the Capital Improvements Plan. The Village is constantly searching for new ways to mitigate the runoff issues on the west side of town.

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**Objective 2:** Continue to implement sound floodplain management practices through continued compliance with the National Flood Insurance Program, to include floodplain ordinance enforcement and periodic review, promoting the benefits of flood insurance, and continued staff training and development in floodplain management.

Steps:

- 1) Evaluate through the existing staff, County planning staff, and additional DNR staff if necessary, the regulatory deficiencies and enforcement shortcomings in flood-related ordinances and programs (see related County objective).
- 2) Periodically update ordinances as necessary.
- 3) Ensure that stop work orders and other means of compliance are being used as authorized by each ordinance.
- 4) Suggest changes to improve enforcement of and compliance with regulations and programs.
- 5) Encourage floodplain management staff to become Certified Floodplain Managers (CFM) or maintain their CFM status.
- 6) Participate in Flood Insurance Rate Map updates by adopting new maps or amendments to maps.
- 7) Utilize recently completed Digital Flood Insurance Rate maps in conjunction with GIS to improve floodplain management, such as improved risk assessment and tracking of floodplain permits.
- 8) Promote and disperse information on the benefits of flood insurance, with assistance from partners such as the County, WDNR, or ASFPM.
- 9) Evaluate the potential costs and benefits of becoming a participant in the Community Rating System.

Lead Implementing Agency: Local zoning administrator

Supporting Agencies:

- Dane County Planning and Development
- Lakes and Watershed Commission
- Land Conservation Department
- Association of State Floodplain Managers
- Wisconsin Department of Natural Resources

Possible Funding and Technical Assistance:

- Staff Time

Timeline: On going

Priority: High

Estimated Costs: Low; can be accomplished with existing staff and within existing department budget.

Update: This is a continuous project that requires constant attention as the Village continues to grow. Upcoming annexations will include mitigation features such as stormwater detention ponds.

