

Municipal Mitigation Strategy Worksheet

Nov. 2021

- Any comments and/or questions concerning this mitigation strategy should be directed to nick@mdroffers.com and olsonj@vi.deforest.wi.us.

Municipality	Village of DeForest	
Mitigation Strategy Name	Mitigate flooding along Scott Drive, N. Halsor Street, E. Holum Street, Dahl Park, Karow property	
Mitigation strategy goal		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Implementing the strategies below will ensure the health and property of Village residents along Scott Drive, N. Halsor Street, and E. Holum Street. The strategies below will also ensure consistent public access and use of Dahl Park, which is the only public park accessible within half a mile from portions of the Sunrise Estates and Timber Hill Meadows neighborhoods. Finally, these improvements will allow the Karow property, along the North Towne Road corridor to the east, to be developed in a manner that minimizes flood risk. The Karow property is already served by Village infrastructure and is in an appropriate location to help meet area workforce and/or senior housing needs.	
Define the steps to achieving this mitigation strategy		
1. Continue to survey Dahl Park ponds every 10 years to ensure adequate water retention capacity. <ol style="list-style-type: none"> <i>Responsible Party</i> – Village of DeForest Public Services Department <i>Funding source</i> – Village of DeForest Stormwater Utility Fund <i>Completion date</i> – 2028 		
2. Continue to survey channels, swales, and grates around the area to ensure there are no blockages from trees, ice, or other debris. <ol style="list-style-type: none"> <i>Responsible Party</i> – Village of DeForest Public Services Department <i>Funding source</i> – Village of DeForest Stormwater Utility Fund <i>Completion date</i> – ongoing 		
3. Raise curb elevation at the E. Holum Street and Cleveland Avenue intersection when street is reconstructed. <ol style="list-style-type: none"> <i>Responsible Party</i> – Village of DeForest Public Services Department <i>Funding source</i> – Village of DeForest Stormwater Utility Fund <i>Completion date</i> – 2031 		

Municipality	Village of DeForest
Mitigation Strategy Name	Mitigate flooding along Scott Drive, N. Halsor Street, E. Holum Street, Dahl Park, Karow property
<p>4. Deepen infiltration basin north of Linde Fields, east of Highway 51 (Yankee Detention Basin).</p> <ul style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest Public Services Department b. <i>Funding source</i> – Village of DeForest Stormwater Utility Fund c. <i>Completion date</i> – there are no plans to do this at this time 	
<p>5. Ensure there is adequate design and capacity in new stormwater basins to retain and infiltrate water from planned development on Karow land plus, to the extent practical, from lands to the northeast across Highway 51, both to minimize flood risk on the remainder of the Karow property and on lands downstream.</p> <ul style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest Planning & Zoning, Village Engineer b. <i>Funding source</i> – potentially hazard mitigation funds and Village match (possibly through its Stormwater Utility Fund or even park land impact fee fund) to support developer contributions to or construction of stormwater management facilities c. <i>Completion date</i> – prior to or when the Karow property develops. At time of writing, Karow property is the subject of a Village redevelopment planning effort, which may yield a desired direction for stormwater management. 	

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Mitigation Strategy Name	Mitigate flooding in and near Liberty Land Park	
Mitigation strategy goal		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Implementing the strategy below will ensure the health and property of Village residents near Liberty Land Park and will also ensure consistent public access and use of Liberty Land Park, which is the largest public park in and around the Liberty Land, High Field Terraces, High Field Terraces West, and Antique Acres residential subdivisions.	
Define the steps to achieving this mitigation strategy		
<ol style="list-style-type: none"> 1. Continue to survey channels, swales, and grates in and around Liberty Land Park to ensure there are no blockages from trees, ice, or other debris and keep water free flowing. <ol style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest Public Services Department b. <i>Funding source</i> – Village of DeForest Stormwater Utility Fund c. <i>Completion date</i> – ongoing 		

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Municipality	Village of DeForest	
Mitigation Strategy Name	Mitigate flooding near Shooting Star Circle	
Mitigation strategy goal		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Implementing the strategies below will protect from flooding residents and their property on Shooting Star Circle, within the Heritage Gardens subdivision. The strategies below will also ensure when planned development occurs to the east, it does not unduly increase stormwater flows in the greenway south of these Shooting Star Circle properties.	
Define the steps to achieving this mitigation strategy		
<p>1. When the property to the east develops, ensure the plans and site development include appropriate stormwater retention capacity and proper grading with special attention to minimizing flows to downstream property.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Planning & Zoning Department, Village Engineer</p> <p>b. <i>Funding source</i> – Developer funds, potentially supplemented by Village Stormwater Utility if extraordinary developer expenses would otherwise result</p> <p>c. <i>Completion date</i> – when proposal(s) for development present for the property to the east and when the property develops</p>		
<p>2. Educate property owners about creating a possible water conveyance system to send excess water north or south away from the residences along Shooting Star Circle. This would require collaboration with other nearby property owners.</p> <p>a. <i>Responsible Party</i> – Village of DeForest/private homeowners along Shooting Star Circle</p> <p>b. <i>Funding source</i> – N/A</p> <p>c. <i>Completion date</i> – to be determined</p>		
<p>3. During times of extreme snowmelt or heavy rainfall, the Village will provide sandbags to these residents.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Public Services Department</p> <p>b. <i>Funding source</i> – Village of DeForest Stormwater Utility Fund</p> <p>c. <i>Completion date</i> – as periods of significant rainfall or snow melt occur</p>		

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Municipality	Village of DeForest	
Mitigation Strategy Name	Mitigate flooding of vacant land east of South Street/Main Street intersection	
Mitigation strategy goal		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Implementing the strategies below will ensure adequate stormwater management practices and flood mitigation will be put in place if the upland parts of this currently-undeveloped site (Parcel 091017387395) develops, which will increase development prospects and reduce disruption to future business activity. This site could also be publicly acquired for a regional stormwater basin, natural area, or other dedicated open or recreational space.	
Define the steps to achieving this mitigation strategy		
<p>1. Continue to inspect the storm swale to the north every 1-2 years to ensure it stays clear of ice, trees, and other debris.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Public Services Department</p> <p>b. <i>Funding source</i> – Village of DeForest Stormwater Utility Fund</p> <p>c. <i>Completion date</i> – 2022, and then every 1-2 years</p>		
<p>2. When development occurs on this site, ensure it provides enough stormwater management in the form of detention ponds, channeling, and other methods for water to be easily collected and held and/or easily flow through the site without negatively affecting other properties.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Planning & Zoning Department</p> <p>b. <i>Funding source</i> – Developer funding and/or installation, which may be supplemented by hazard mitigation or other grants and/or the Village’s Stormwater Utility Fund.</p> <p>c. <i>Completion date</i> – when proposal for development present itself</p>		
<p>3. Alternatively, consider public acquisition of the site for a regional stormwater basin, natural area, or other dedicated open or recreational space.</p> <p>a. <i>Responsible Party</i> – Village Board and Administration, upon advice from Public Services Dept.</p> <p>b. <i>Funding source</i> – Hazard mitigation or other grants, potentially with Village of DeForest Stormwater Utility Fund and/or parkland impact fees</p> <p>c. <i>Completion date</i> – Site plus developed lands to the south are currently subject to a redevelopment planning process, which will likely suggest a future use and potential outcome for this site, in consultation with its current land owner</p>		

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Municipality	Village of DeForest	
Mitigation Strategy Name	Mitigate impacts from extreme heat and extreme cold events	
Mitigation strategy goal		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Implementing the strategies below will ensure the health and lives of Village residents, especially those most at-risk to extreme heat or cold events. These strategies will become even more important over the next decade or two as DeForest’s senior population is expected to grow significantly, and as extreme weather events may become more common.	
Define the steps to achieving this mitigation strategy		
<p>1. Provide public education and awareness in the form of social media posts so the public is aware of warming/cooling centers (such as the Senior Center and library) as well as where they can acquire any needed resources, water, or shelter.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Community Ambassador</p> <p>b. <i>Funding source</i> – Village operational funding</p> <p>c. <i>Completion date</i> – as needed when extreme cold or extreme heat events occur</p>		
<p>2. Collaborate with the DeForest Area School District on using gyms and classroom spaces and other school area for heating and cooling centers to provide more locations for heating and cooling centers across the community.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Public Services Department</p> <p>b. <i>Funding source</i> – Village operational funding</p> <p>c. <i>Completion date</i> – 2022</p>		
<p>3. Provide public education and awareness in the form of social media posts during times of extreme cold so that the public is aware on how to avoid frozen water faucets.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Public Services Department, Community Ambassador</p> <p>b. <i>Funding source</i> – Village operational funding</p> <p>c. <i>Completion date</i> – as needed when extreme cold events occur</p>		

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Municipality	Village of DeForest	
Mitigation Strategy Name	Mitigate impacts from a possible tornado	
Mitigation strategy goal		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Implementing the strategies listed below will ensure appropriate, timely, and necessary response to those affected by a tornado in the Village.	
Define the steps to achieving this mitigation strategy		
<p>1. Review and make any necessary updates to the Emergency Operations Plan to incorporate best practices and lessons learned since the Plan was created in 2016.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services, Village of DeForest Emergency Preparedness Committee</p> <p>b. <i>Funding source</i> – to be determined; grant funding may be sought</p> <p>c. <i>Completion date</i> – 2022, and every two years thereafter</p>		
<p>2. Purchase a mini-excavator, which would be important and useful after a major natural hazard (like a tornado) for helping to remove debris and perform clean up.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services</p> <p>b. <i>Funding source</i> – to be determined; grant funding may be sought</p> <p>c. <i>Completion date</i> – when funds become available</p>		
<p>3. As the Village expands geographically, make sure existing tornado sirens can be heard from new areas in the Village. If necessary, add new tornado sirens in new subdivisions and commercial/industrial developments.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services, Planning & Zoning Department, Police Department</p> <p>b. <i>Funding source</i> – to be determined; grant funding may be sought</p> <p>c. <i>Completion date</i> – as Village expands geographically</p>		
<p>4. Perform a weather radio drive, the last one being done in 2011.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Police Department</p> <p>b. <i>Funding source</i> – to be determined</p> <p>c. <i>Completion date</i> – 2023</p>		

Municipality	Village of DeForest
Mitigation Strategy Name	Mitigate impacts from a possible tornado
5.	<p>Perform an analysis of infrastructure, municipal buildings, and utility buildings (such as public wells) to ensure each critical building has access to a backup generator in times of power outages due to a tornado.</p> <ul style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest Department of Public Services b. <i>Funding source</i> – to be determined c. <i>Completion date</i> – 2022
6.	<p>Integrate redundancies in municipal utilities, such as water system looping, which makes the water system less vulnerable to water main breaks, aids in firefighting, and improves water quality.</p> <ul style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest Department of Public Services, Planning & Zoning Department b. <i>Funding source</i> – to be determined; grant funding may be sought c. <i>Completion date</i> – as opportunities present themselves
7.	<p>As new parts of the Village develop, implement best practices so that new areas have multiple points of entry and exit. This provides multiple ways for people and emergency services to access developments during times downed power lines, downed trees, buckled roadways, and other damage to roads.</p> <ul style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest Department of Public Services, Planning & Zoning Department, Fire Department b. <i>Funding source</i> – Village operational funds c. <i>Completion date</i> – as opportunities present themselves
8.	<p>Provide public education and awareness in the form of social media posts during the spring and summer to ensure the public is aware of best practices to avoid loss of property and lives during a tornado.</p> <ul style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest Community Ambassador b. <i>Funding source</i> – Village operational funds c. <i>Completion date</i> – every year during the spring and summer months
9.	<p>Continue to require Village staff to live close to the Village of DeForest so they can be called upon to quickly help during time of need or during an emergency.</p> <ul style="list-style-type: none"> a. <i>Responsible Party</i> – Village of DeForest b. <i>Funding source</i> – N/A c. <i>Completion date</i> – ongoing

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Municipality	Village of DeForest	
Mitigation Strategy Name	Mitigate impacts from a major blizzard	
Mitigation strategy goal		
<i>Highlight the applicable strategic category</i>	Prevention	Natural Resource Protection
	Property Protection	Critical Facilities Protection
	Public Education & Awareness	Structural Project
<i>Describe the overall improvements to the community including the purpose for and the desired outcome from implementing this strategy</i>	Implementing the strategies listed below will ensure appropriate, timely, and necessary response to those affected by a major blizzard in the Village.	
Define the steps to achieving this mitigation strategy		
<p>1. Purchase a mini-excavator, which would be important and useful after a major natural hazard (like a major blizzard) for helping to remove snow, debris, and perform clean up.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services</p> <p>b. <i>Funding source</i> – to be determined; grant funding will be considered</p> <p>c. <i>Completion date</i> – when funds become available</p>		
<p>2. Update necessary ordinances so that 6-foot-wide terraces are the minimum standard for new street construction, which provides greater capacity for snow storage.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Planning & Zoning Department</p> <p>b. <i>Funding source</i> – Village operational funds</p> <p>c. <i>Completion date</i> – 2022</p>		
<p>3. Perform an analysis of infrastructure, municipal buildings, and utility buildings (such as public wells) to ensure each critical building has access to a backup generator in times of power outages due to a major blizzard.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services</p> <p>b. <i>Funding source</i> – to be determined</p> <p>c. <i>Completion date</i> – 2022</p>		
<p>4. As the Village expands geographically, incorporate new roads into the existing plan for clearing major roadways for emergency vehicles to respond if needed, prioritizing roads which provide access to vulnerable populations.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services, Planning & Zoning Department</p> <p>b. <i>Funding source</i> – N/A</p> <p>c. <i>Completion date</i> – as opportunities present themselves</p>		

Municipality	Village of DeForest
Mitigation Strategy Name	Mitigate impacts from a major blizzard
5.	<p>Integrate redundancies in municipal utilities, such as water system looping, which makes the water system less vulnerable to water main breaks, aids in firefighting, and improves water quality.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services, Village Engineer</p> <p>b. <i>Funding source</i> – to be determined</p> <p>c. <i>Completion date</i> – as opportunities present themselves</p>
6.	<p>As new parts of the Village develop, implement best practices so that new areas have multiple points of entry and exit. This helps provide multiple ways for people and emergency services to access neighborhoods during times heavy snowfall.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Department of Public Services, Planning & Zoning Department</p> <p>b. <i>Funding source</i> – Village operational funds</p> <p>c. <i>Completion date</i> – as opportunities present themselves</p>
7.	<p>Provide public education and awareness in the form of social media posts during the fall, winter, and spring to ensure the public is aware of best practices to avoid loss of property and lives during a major blizzard.</p> <p>a. <i>Responsible Party</i> – Village of DeForest Community Ambassador</p> <p>b. <i>Funding source</i> – Village operational funds</p> <p>c. <i>Completion date</i> – ongoing, every year</p>
8.	<p>Continue to require Village staff to live close to the Village of DeForest so they can be called upon to quickly help during time of need or during an emergency.</p> <p>a. <i>Responsible Party</i> – Village of DeForest</p> <p>b. <i>Funding source</i> – N/A</p> <p>c. <i>Completion date</i> – ongoing</p>