Shoreline Restoration: Native Plants

Natalie Erler
Sawyer County Zoning & Conservation



Issues Facing Wisconsin Lakes & Streams

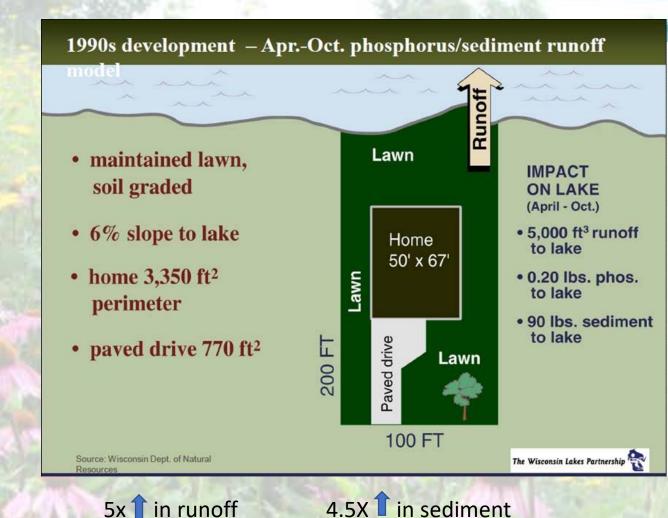
- Surface Water Pollution
- Groundwater Pollution
- Erosion
- Decrease in wildlife habitat (and wildlife)
- Algae Blooms

- Goose abundance & their poop
- Decrease in fishery quality and quantity
- Higher bacterial levels ->
 Beach Closures

Spider Creek Watershed 01 05 SAWYER CO North Lake HUC 12-070500010303 Clear Lake 300020104 Lost Lan Lake HUC 12-070500010304 McClaine Lake HUC 12-070500010305

Importance

1940s development – Apr.-Oct. phosphorus/sediment runoff maple-beech forest IMPACT orrido ON LAKE 6% slope to lake (April - Oct.) 1.000 ft³ runoff grass corridor 20'-wide to lake • 0.03 lbs. phos. cottage 700 ft² to lake perimeter • 20 lbs. sediment to lake Cottage • gravel drive 800 ft² 25'x28' • 35'-wide buffer strip S Gravel drive 100 FT The Wisconsin Lakes Partnership Source: Wisconsin Dept. of Natural



6x 1 in phosphorous

Importance





SHORELAND ZONING

A house that is set back at least 75 feet from the water allows space for trees and native plants.

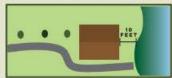


THE VALUE OF SHORELAND ZONING



NO SHORELAND ZONING X

A house that is close to the water does not leave space for trees and native plants to stabilize the shoreline.





CONCLUSIONS

Shoreland zoning standards make it possible to carefully develop a waterfront property, protect the lake or river, and keep waterfront property values high. WHAT DO SHORELAND ZONING STANDARDS ACCOMPLISH?

eroded shorelines

Clearer water =

More fish and fish species

More food and shelter for fish and frogs

CONCLUSIONS

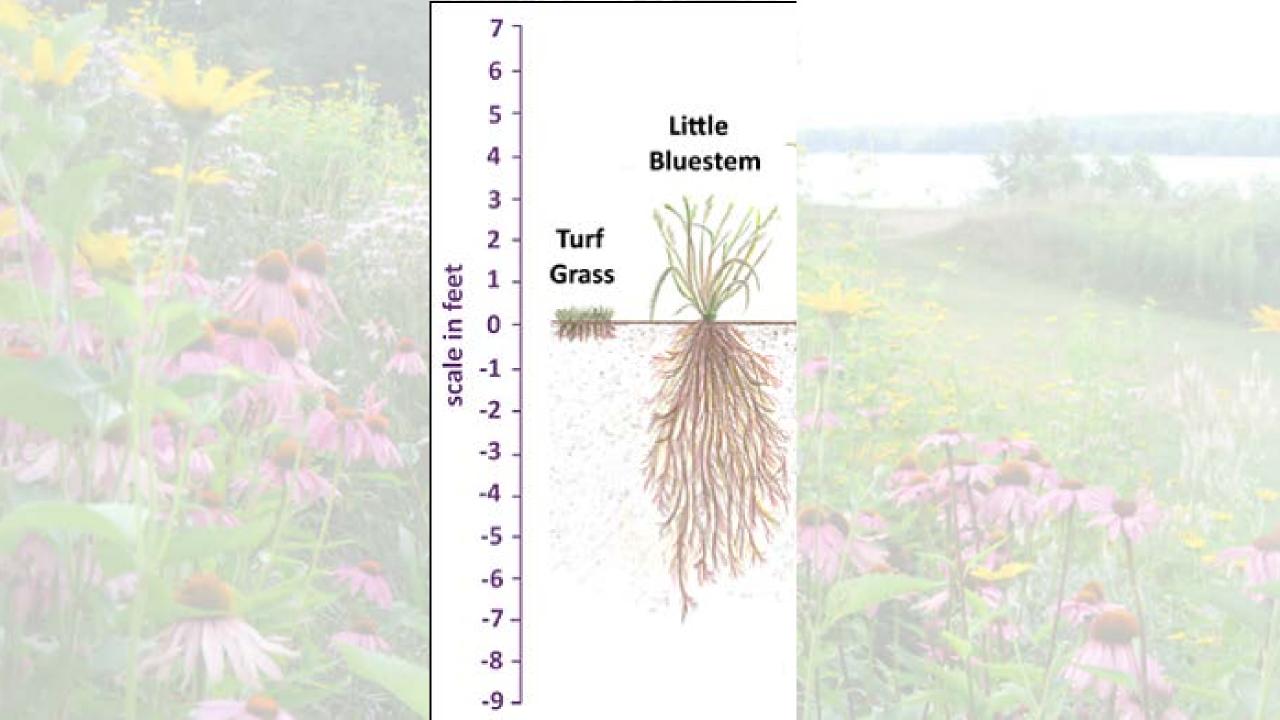
Waterfront property developed without shoreland zoning standards can lead to erosion, harm the lake or river, and reduce waterfront property values.

covered in eroded soil

Complete the Shoreland Evaluation Tool to assess your waterfront property at survey.healthylakeswi.com.

For more information, check with your local zoning office.

Higher property values



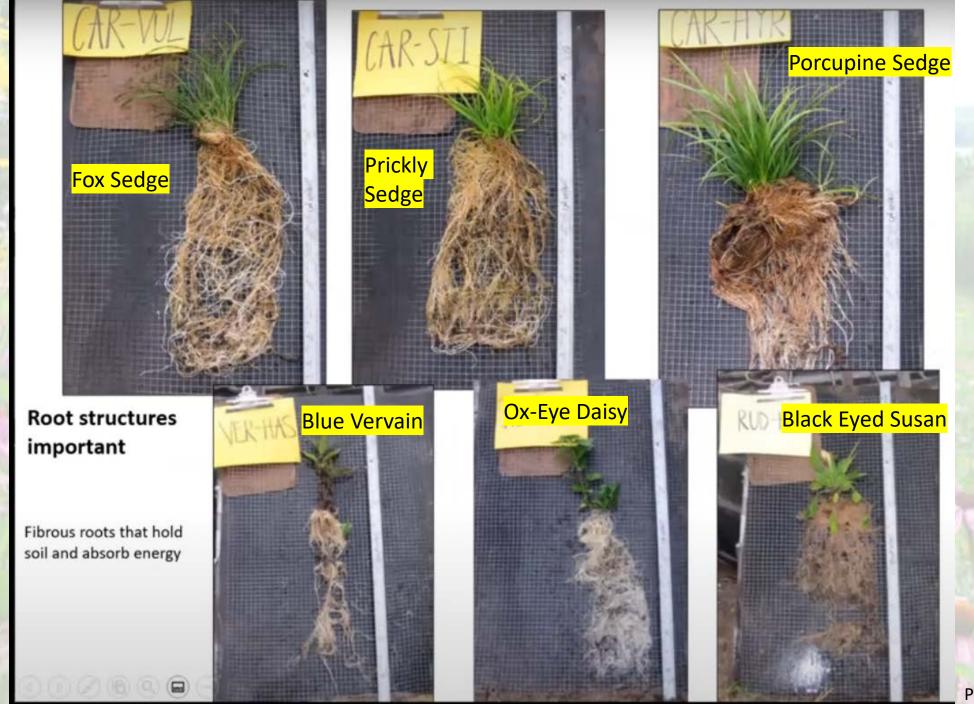
After 1 year of growth!



Fibrous roots that hold soil and absorb energy

Patrick Goggin

After 1 year of growth!

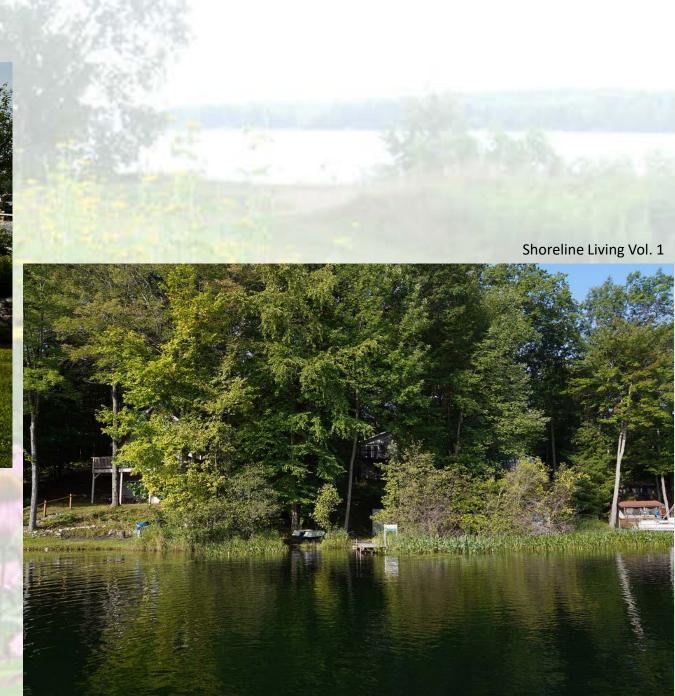


Patrick Goggin

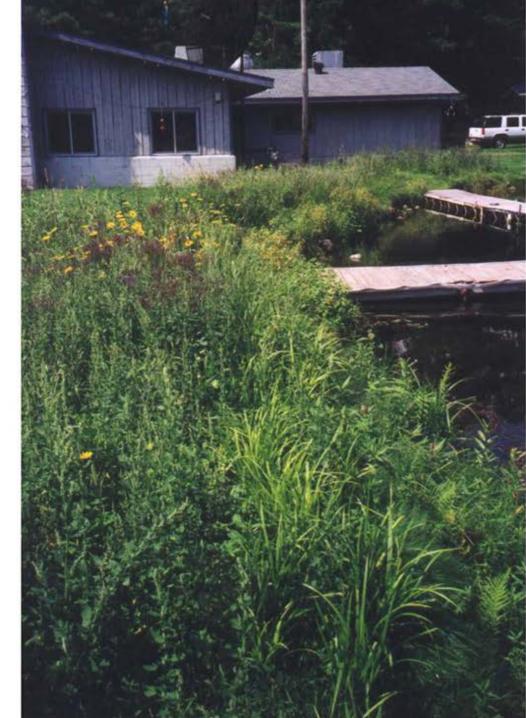
End Goal



Shoreline Living Vol. 1







Step 1: Map It Out – where, shape, size

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- -There's no one size fits all
- -All properties are different and you can make it your own
- -Every property has different sunlight amounts, slopes, soil types, deer/rabbit issues etc.

- Step 2: Determine Sunlight & Soil Type
- Full Sun → Shade
- Dry/Medium Soil → Moist/Wet Soil



FULL SUN At least 6 hours of direct, unfiltered sunshine daily



PARTIAL SUN 4-6 hours of direct sunlight OR Filtered sunlight all day



SHADE Less than 4 hours of direct sunlight and heavily shaded

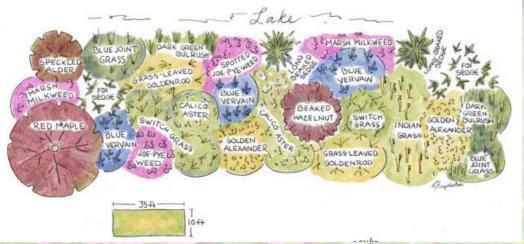


DRY-MEDIUM SOIL Drains well and has no standing water



MOIST-WET SOIL Regularly damp with standing water in the spring

- Step 3: Choose Your Plants
- Examples: Attract birds/butterflies, deer resistant, low-growing plants, stabilize bare soil etc...
- Very customizable
- Step 3a: Draw It Out
- How many?



- 3 Layers: Canopy, Shrub/grasses, Wildflower (groundcover)
 - -Important to have all 3 as they each do a job

- Step 4: Order your plants & pick a day!
- -Spring/early summer is best for planting
- -Local nurseries
- -Buy plant plugs or plants in containers



Native Plant Sources

When choosing plantings for your Northwoods property, keep in mind that Sawyer County is within the Zone 3 hardiness area. Nursery sources in the area will often have a local genotype of a particular plant which will be more successful.

Dragonfly Gardens	715-268-7660
491 State Hwy 46	
Amery, WI 54001	www.dragonflygardens.net
7.111013, 11.1 0 1001	111111111111111111111111111111111111111
Prairie Moon Nursery	1-866-417-8156
32115 Prairie Lane	
Winona, MN 55987	www.prairiemoon.com
_	
Agrecol	608-223-3571
10101 North Casey Rd	
Evansville, WI 53536	www.agrecol.com
,	
Northern Native	715-794-2548
Plantscapes	
25350W Garden Ave	Sarah Boles
Cable, WI 54821	Consultant
Cable, 1115-1021	Consumum
MeM County	717 705 2100
M&M Greenhouse	715-795-2100
52710 Robinson Lk Rd	
Barnes, WI 54873	www.mmgreenhouse.com
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Winter Greenhouse	715-266-4963
W7041 Olmstead Rd.	715-200-5430
Winter, WI 54896	
	www.wintergreenhouse.com
Rolling Wood	715-865-6900
	/13-863-6900
Nursery	
W122 State Rd. 70	
Stone Lake, WI 54876	
1	

More locations can be found at: https://widnr.widen.net/s/rfsbfc22w6/ nb0698

- Step 5: Prep the Planting Area
- Eliminate non-native species including lawn/grass
- Methods include: digging, smothering, and applying herbicides*





Kelly Nechuta

Step 6: Planting!!

Tips:

- Dig a wide & deep enough hole- root ball is 1/2 inch above soil (too deep will kill the plants)
- Label each species so you don't mistake for weeds
- Water often, especially during first year



- Step 7: Maintain & Enjoy!
- -Weeding
- -Watering (important 1st year)
- -Prevent browse damage: sprays/temporary fencing







Examples/Pictures



Kelly Nechuta



Examples/Pictures





County Assistance

- Help design and implement shoreline restoration projects
- Education

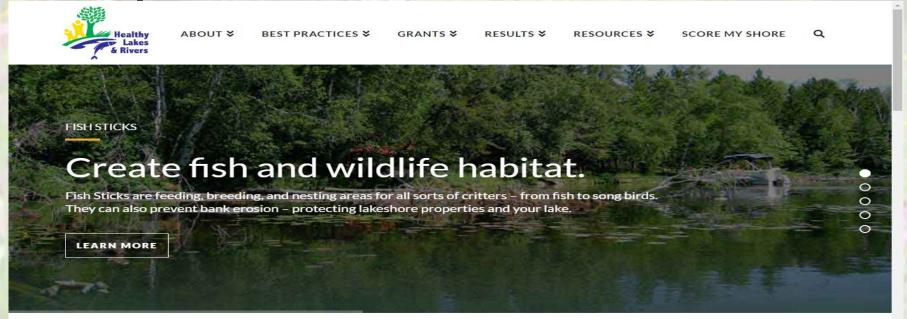
- <u>DATCP Funding</u>: Cost-share program. Streambank & Shoreline Protection reimbursed 50% up to \$3,000*
- *Are exceptions

Other Funding

• DNR

www.healthylakeswi.com

- -Healthy Lakes and Rivers Grant
- Score My Shore Tool





I own shoreland property.

You can make a difference. Learn about Healthy Lakes & Rivers best practices for your property and how to find help.





I'm an eligible grant applicant.

Qualified lake or river organizations, municipalities, and tribal governments can apply for Healthy Lakes & Rivers grant funding on behalf of multiple shoreland property owners.

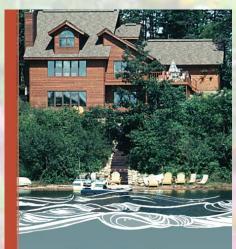
Get Started

Key Takeaways

- Native plants along the shoreline help:
 - improve water quality/clarity > catches water runoff
 higher property values
 - keep geese away
 - reduce erosion -> remember those root photos!
 - attract more wildlife -> provides food, habitat
 - less geese!

Spider Creek Watershed 01 05 SAWYER CO North Lake HUC 12-070500010303 Clear Lake 300020104 Lost Lan Lake HUC 12-070500010304 McClaine Lake HUC 12-070500010305

Resources



Protecting Your Waterfront
Investment

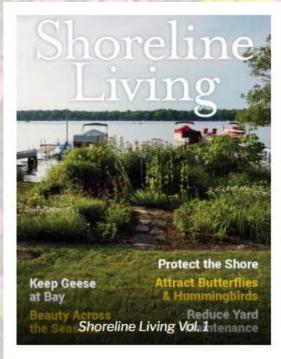
10 Shoreland Stewardship Practices

NATIVE PLANT RESTORATION

The following species are native plants to Sawyer County and are recommended for shoreline restorations and upland sites.



Phone: 715-634-6463 Fax: 715-638-3282 Tim Seidl & Natalie Erler

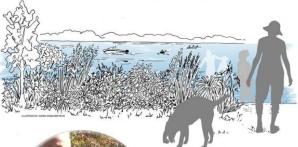






Healthy Lakes & Rivers Healthy Lakes 350 ft² Native Planting **Companion Guide**

Improve wildlife habitat, natural beauty and privacy, and decrease runoff.





Native plantings include grasses and wildflowers with shrubs and trees. Choose one of the six native plant options provided - based on your property specifications and interests - from bird/butterfly habitat to a low-growing native garden showcasing your view of

Questions?

Natalie Erler

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Coordinator

Sawyer County Zoning & Conservation

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715-634-6463

Office located at the Courthouse