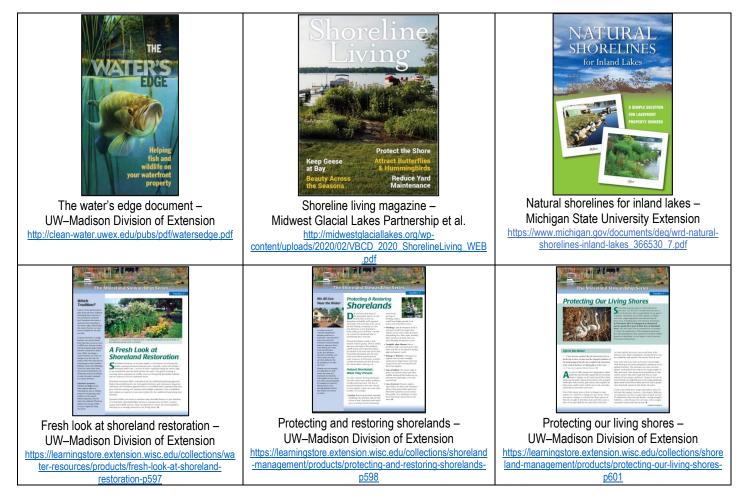
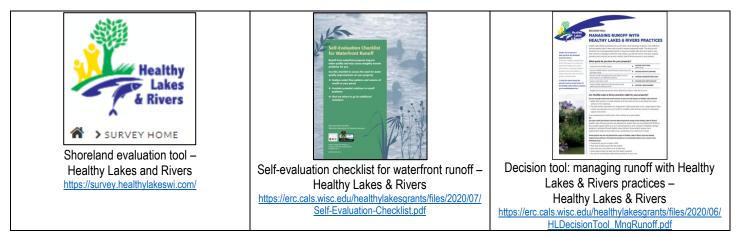
Building a shoreland action plan from the ground up

- themes to focus on with landowners & resources to get engagement on healthy lake and river best practices

<u>Background information</u> – share these publications with people interested in learning why shoreland systems are so important to water quality, wildlife habitat, and lake health.



<u>Assessing your shoreland system</u> – shoreland property owners can utilize these assessment tools to walk their shoreland properties and identify options for improving water quality, controlling stormwater runoff, and enhancing wildlife habitat along the shore.





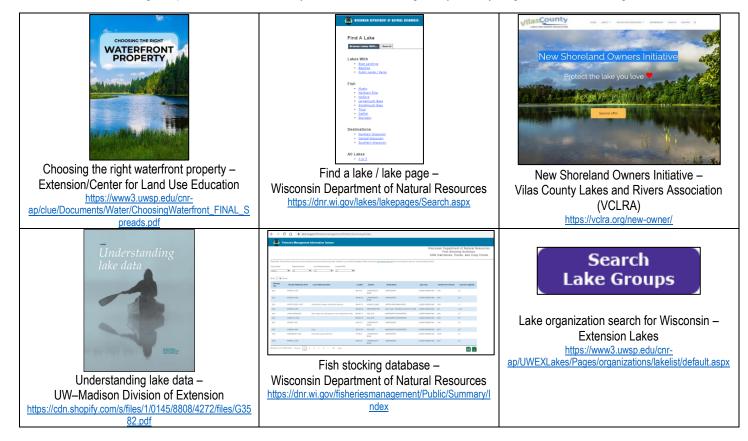
Landscaping at the water's edge booklets – share these books with shoreland property owners interested in a holistic approach to waterfront management. Peruse these booklets for stewardship ideas, habitat restoration and water quality best practices, and other strategies for maintaining and enhancing your waterfront property for clean water and support of wildlife.



Best practice engagement brochures – utilize these booklets and brochure with folks to engage and coach them in installing assorted best practices along our lakes, rivers, and streams. These documents offer guidance on installation, project planning and timing, permits needed, and other direction on performing sound waterfront projects to support clean water and better habitat for animals.



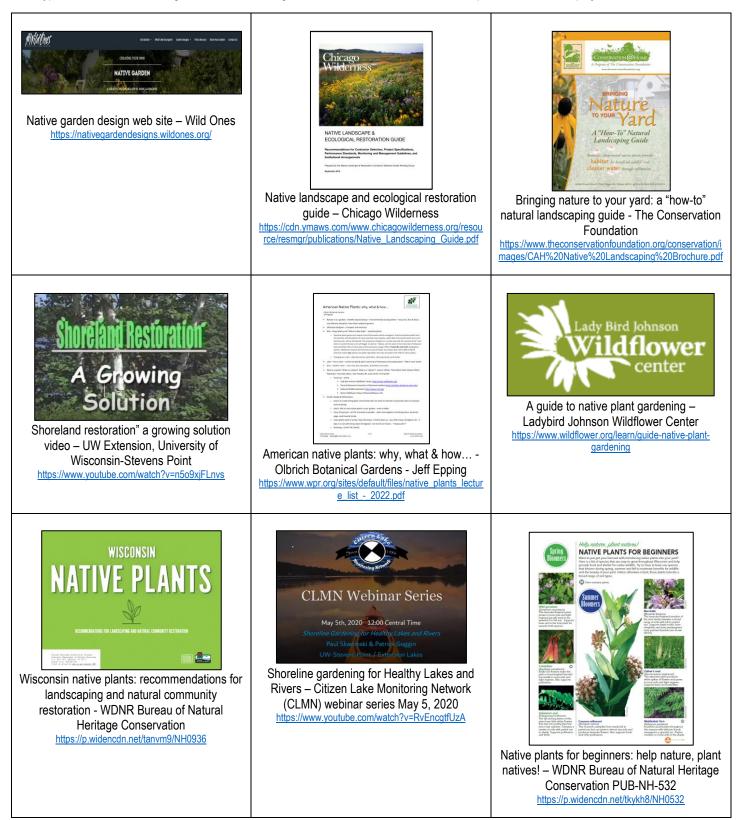
<u>**Realtors**</u> – these resources give important information to realtors and first-time waterfront property buyers interested in owning shoreland lots around Wisconsin including the questions to ask to match you to the lake that is right for you and your goals around lake living.



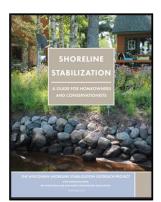
<u>Why should we utilize native plants along waterways?</u> – give folks a foundation to start from as to why native plants and vegetation along our waterways is important to water quality, wildlife habitat, and healthy waters.

Dr. Douglas Tallamy Professor of Entomology & Wildlife Ecology University of Deleware Restoring the little things that run the world -		Landscape Architecture Ecological Services Environmental Planning Custom Artworks Heidi Natura Founder & Partner
Doug Tallamy - 2019 Wisconsin Lakes & Rivers Convention in Stevens Point <u>https://www.youtube.com/watch?v=cN7-jzL40zQ</u>	693a Shoreland habitat conservation standard – Natural Resource Conservation Service <u>https://socwisconsin.org/wp-</u> <u>content/uploads/2012/10/nrcsshorehabstandard.pdf</u>	Heidi Natura – Living landscapes – 2019 Wisconsin Lakes & Rivers Conference <u>https://www3.uwsp.edu/cnr-</u> <u>ap/UWEXLakes/Documents/programs/convention/2019/W</u> <u>edPM/HeidiNatura LivingHabitats.pdf</u>
Water plants: a case for preserving Wisconsin's aquatic plants – Extension Lakes https://www3.uwsp.edu/cnr- ap/UWEXLakes/Documents/resources/bookstore/WaterPl ants.pdf	Native plant guide: 112 species that support clean water, wildlife habitat and a happy soul	Landscaping with native plants to ward off invasives & benefit wildlife: a homeowner's guide https://bugwoodcloud.org/mura/mipn/assets/File/MIPN_U SFS_Reveg_Homeowner_FINAL.pdf

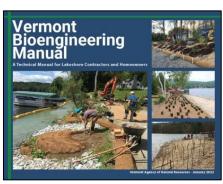
Designing shoreland restoration projects – these resources provide guidance and ideas on designing sound shoreland restoration projects on all types of lakeshores, from big sized efforts involving 100's of shoreland feet to lesser sized parcels with smaller projects.



Erosion control and shoreline stabilization measures – people can read these various booklets to gain an understanding for the causes and concerns of shoreland erosion and the types of native plantings, bioengineering projects, and other treatments that can be employed to control it on our waterfront properties.



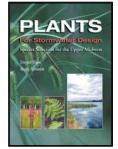
Shoreline stabilization: a guide for homeowners and conservationists - Wisconsin Land and Water Conservation Association https://wisconsinlandwater.org/assets/documents/Shorelin e-Stabilization-Guide-for-Homeowners_Print-Version.pdf



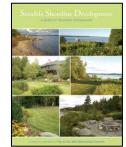
Vermont bioengineering manual – Vermont Department of Environmental Conservation <u>https://dec.vermont.gov/sites/dec/files/documents/BioEngi</u> <u>neeringManual_Final.pdf</u>

	LAD -	
NATURAL RESOURCES	CONSERVATION SERVICE	
CONSERVATION	PRACTICE STANDARD	
STREAMBANK AND S	HORELINE PROTECTION	
	AL CONTRACTOR	
-		
	ICC 566	
DEFINITION	Treatments assist shall seek to seek always	
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FURPORE	Treatments applied shall seek to socid adverse effects to archaeological, hatorit, shuchral, an iteditorial cultural properties, sharaver possible	
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conditions weeks practice applies	The bank or shareline materials, solar chemicity sharenel or base hydraulice, and stope share-deviation shows and being the syster line.	
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CHITERIA		
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- Andrews	transist chairings for lanck asseptigs shall be provided when medical. Galitanities or property	
Commenter marine marinet as assessed over their and		

Streambank and shoreline protection code 580 - Natural Resources Conservation Service conservation practice standard <u>https://socwisconsin.org/wp-</u> <u>content/uploads/2020/01/CPS-580-Streambank-and-</u> <u>Shoreline-Protection.pdf</u>



Plants for stormwater design: species selection for the upper Midwest – Minnesota Pollution Control Agency <u>https://www.pca.state.mn.us/water/plants-stormwater-</u> design



Sensible shoreline development: a guide for shoreline homeowners – Tip of the Mitt Watershed Council https://www.watershedcouncil.org/uploads/7/2/5/1/725135 0/shorelinebrochure_2018-final-web.pdf



Impervious surfaces: how they Impact fish, wildlife, and waterfront property values https://cdn.shopify.com/s/files/1/0145/8808/4272/files/GW Q061.pdf



Natural shoreline landscaping – Michigan State University Extension https://shop.msu.edu/products/bulletin-e3158

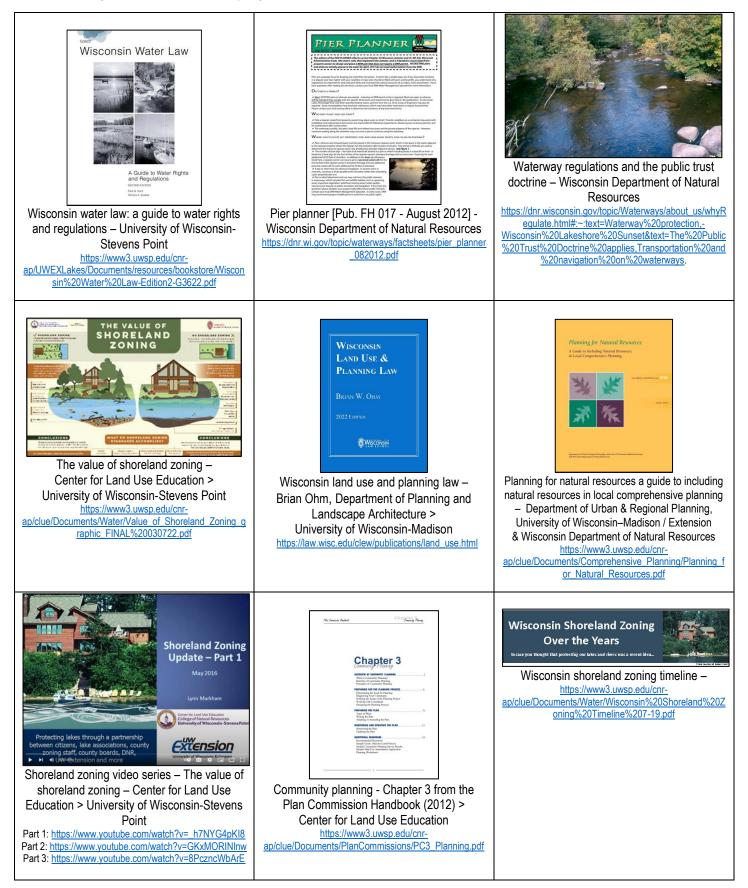


Impervious surfaces: how they impact fish, wildlife and waterfront property values -Center for Land Use Education Poster: https://www3.uwsp.edu/cnrap/clue/Documents/Water/impervioussurfacesposterbig20 <u>14.pdf</u> Viceo: https://www.youtube.com/watch?v=UPjPnaGNB1c

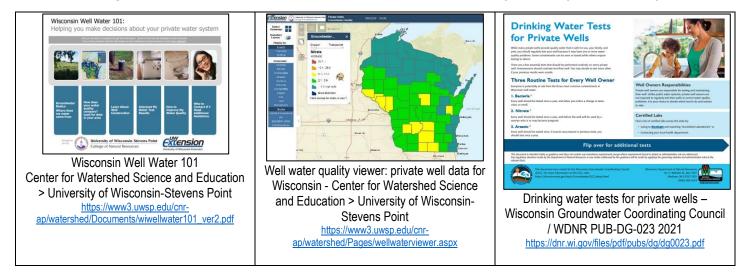
Wisconsin Biology Te	chnical Note 1:
Shoreland H	abitat
Introduction	
Definition of Shoreland Habitat An ana adjacent to a water body in a new-agricultural se mature of native species that include graves, grave-like	ing that is vegetated with a diverse
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Planting Techniques Site Care and Maintenance Resources Appendices	- p. 14 p. 17 p. 19

shoreland habitat – Natural Resources Conservation Service https://socwisconsin.org/wpcontent/uploads/2012/10/Biology Tech Note 1.pdf

<u>Water law, community planning, and shoreland zoning</u> – consult these resources for background information and trends around shoreland zoning rules and other waterway regulations, and for basics around water law in Wisconsin.



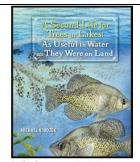
Wells and drinking water in Wisconsin - find information and resources on well monitoring and testing for safe drinking water.



Finding native plant nurseries and restoration consultant professionals – use these booklets to find native plant material and restoration professionals who can assist with the installation of best practices for clean water and wildlife habitat.



<u>Fish and woody habitat</u> – these resources describe the importance and functions of woody habitat to fish populations and other wildlife found in lakes and rivers; they also provide guidance on restoring these fish sticks assemblages along our waterways.



A second life for trees in lakes: as useful in water as they were on land – Center for Land Use > University of Wisconsin-Stevens Point <u>https://www3.uwsp.edu/cnr-</u> <u>ap/clue/Documents/Water/TreesShoreline.pdf</u>



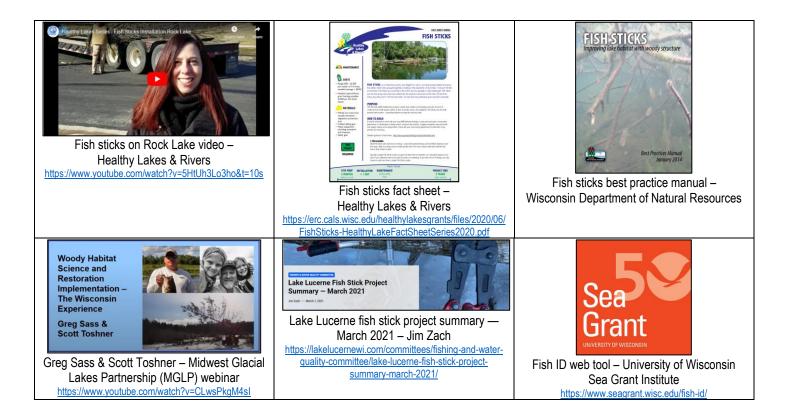
Fish hotel kit - Center for Land Use Education > University of Wisconsin-Stevens Point <u>https://www3.uwsp.edu/cnr-ap/clue/Pages/Fish-Hotel-Kit.aspx</u>



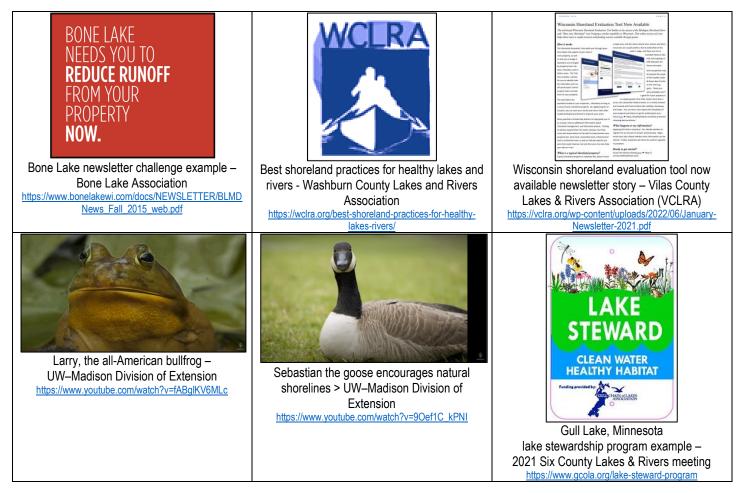
Commission (GLIFWC) educational materials

https://great-lakes-indian-fish-wildlifecommission.constantcontactsites.com/store

 $\underline{http://glifwc.org/ClimateChange/TribalAdaptationMenuV1.pdf}$



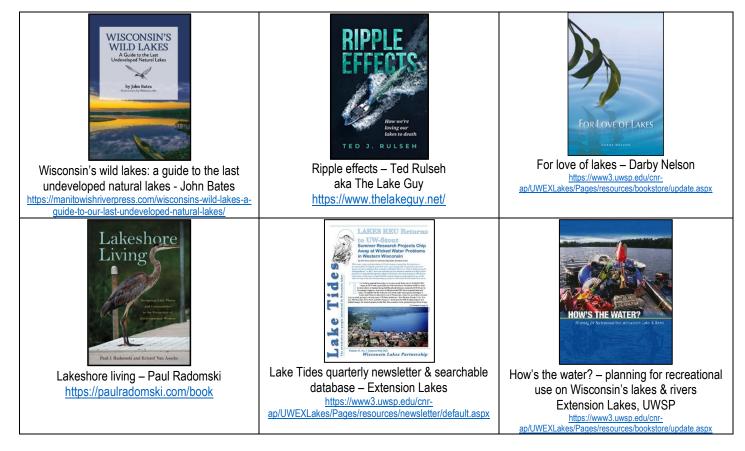
<u>Newsletter challenge / lake org web site best practice campaigns / and recognition program examples</u> – these links and resources provide examples of how to challenge folks to engage in best practices for clean water and better wildlife habitat for lakes and rivers in Wisconsin.



Youth education resources - use these publications to share the world of water with youth to inspire and educate future generations.



<u>Lakeside living / water recreation books / wake boating</u> – this collection of books and newsletters can be used to engage, inform, and inspire lake lovers to care for lakes and provides inspiration in empowering people to embrace best practice usage to better our waterways.



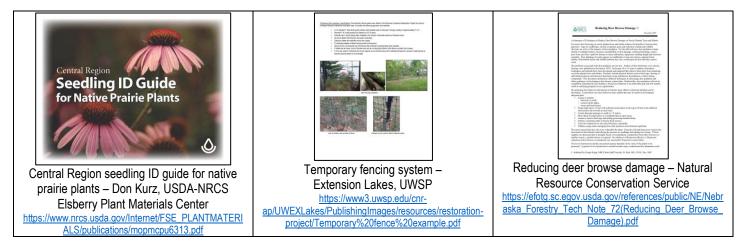


Aquatic plant identification & management resources including aquatic invasive species – provide these resources to lake lovers

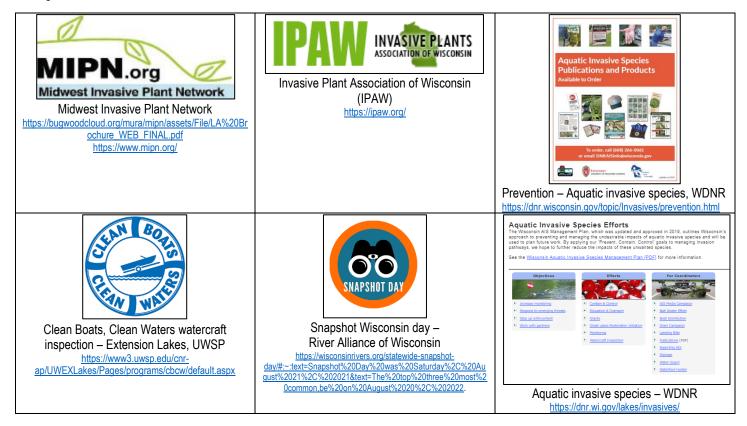
interested in understanding aquatic plant communities, aquatic invasive species of concern and their effects, and reasons why aquatic vegetation is so important to lake health, fisheries success, and recreational use opportunities.



Native plantings maintenance tips & resources - these resources provide maintenance information on native plantings.



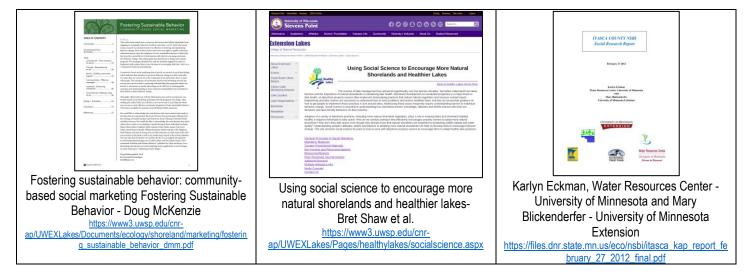
<u>Aquatic and terrestrial invasive species</u> – explore these resources for information on invasive species prevention, control, and management.



<u>Water monitoring programs and some example programs tracking wildlife populations around water habitats</u> – these documents provide background and current information on water monitoring in Wisconsin.



Community-based social marketing (CBSM) approach



Extension Lakes YOUTUBE page

Extension Lakes you tube page	
Extension Lakes College of Natural Resources University of Wisconsin-Stevens Point	
https://www.youtube.com/user/uwexLakes/videos?app= desktop&view=0&sort=dd&shelf_id=0	

Annual Wisconsin Lakes and Rivers Convention

2023 Wisconsin Water Week 2022 Wisconsin Lakes & Rivers Convention – April 19-21, 2023, Stevens Point https://wisconsinwaterweek.org/	2022 Wisconsin Lakes & Rivers Convention archive https://www3.uwsp.edu/cnr- ap/UWEXLakes/Pages/programs/convention/2022/defau It.aspx	The Wisconsin Lakes & Rivers Partnership Data Convention Archives With the data data water water water water The data data water water water water The convention Lakes and Rivers Convention Archives Browse through other past years of the Wisconsin Lakes & Rivers Convention archives https://www3.uwsp.edu/cnr ap/UWEXLakes/Pages/programs/convention/archives.a Spx
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Lake Tides – quarterly newsletter of the Wisconsin Lakes Partnership

Current issue link	Use our articles in YOUR newsletter	Searchable database of newsletter articles
https://ww3.uwsp.edu/cnr- ap/UWEXLakes/Documents/resources/newsletter/vol46- vol50/vol47-2spring2022web.pdf	Image: Series of the series of th	Search Lake Tides

Compiled by: Patrick Goggin, Extension Lakes, UWSP

pgoggin@uwsp.edu