Land Use and Wetlands

Local Decision-Making and Opportunities for Improved Wetland Protection



Erin O'Brien, Policy Director Kyle Magyera, Policy Specialist Wisconsin Lakes Convention Workshop April 12, 2011



Agenda

Part I: Tools and information to improve public understanding about wetlands.

Part II: Opportunities and tools to improve local wetland protection.



Mission Statement

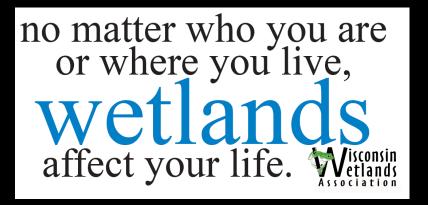
Wisconsin Wetlands Association is a non-profit organization dedicated to the protection, restoration and enjoyment of wetlands and their associated ecosystems through science-based programs, education and advocacy.





no matter who you are or where you live, wetlands affect your life.

Questions we strive to answer and want to help YOU answer too. What are wetlands? What do they look like? Where are they on the landscape? Why do they matter?



How are they protected? How can we improve protections?

What are Wetlands?

Where land and water meet, characterized by:

- 1. Wetland hydrology
- 2. Wetland (hydric) soils
- 3. Wetland (hydrophytic) vegetation









What are Wetlands?

"Marsh" "Swamp" "Bog" "Shorelands" "Lake fringes" "Shallows" "Sloughs" "Floodplain forests"



Kangaroo Lake





Lulu Lake



Grandma Lake





Communicating About Wetlands

We need to recognize that many of our treasured aquatic resources are wetlands or are dependent upon wetlands.

We can develop commonly used messages that make the connection between lakes, rivers, streams <u>and wetlands</u> for the good of <u>all</u> of these interconnected water resources.



What do wetlands look like?



Wetlands are not just this







* Based on Eggers & Reed / 1997

Coniferous Bog



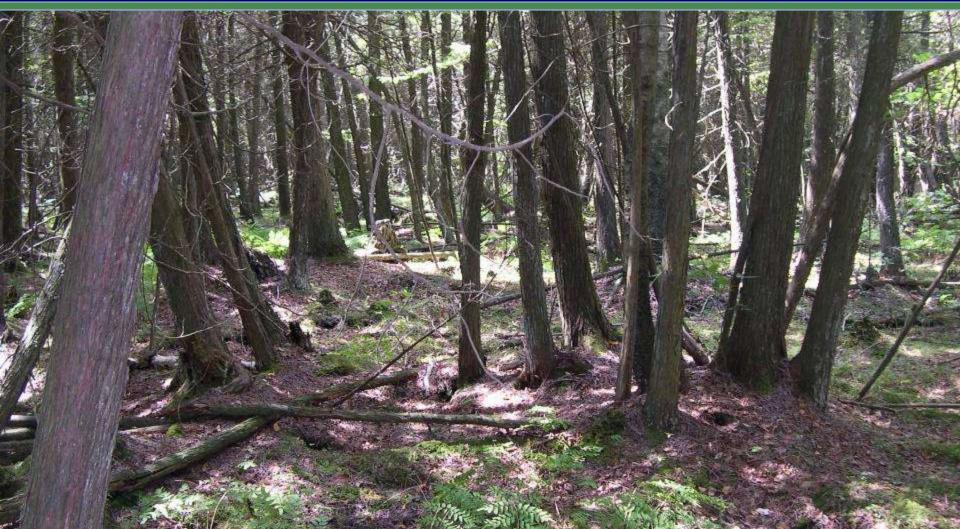


Open Bog





Coniferous Swamp





Lowland Hardwood Swamp



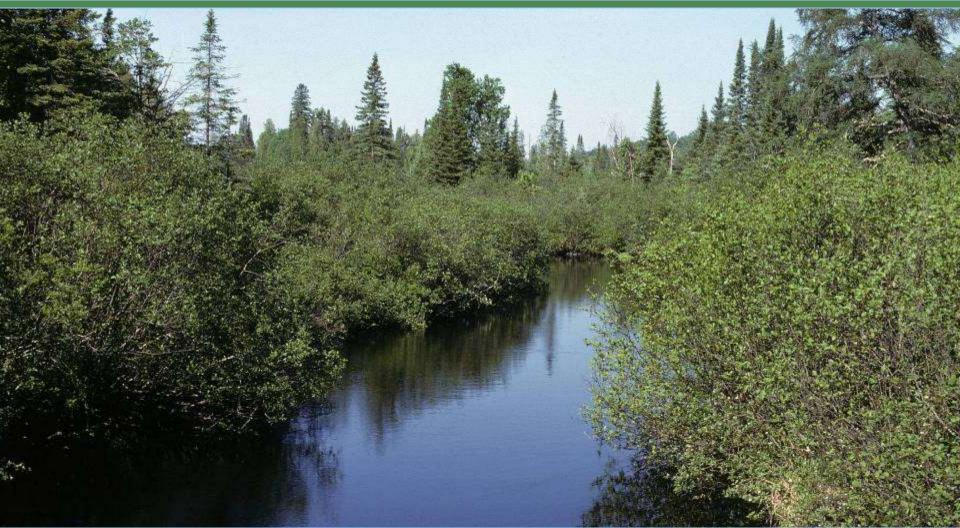


Floodplain Forest



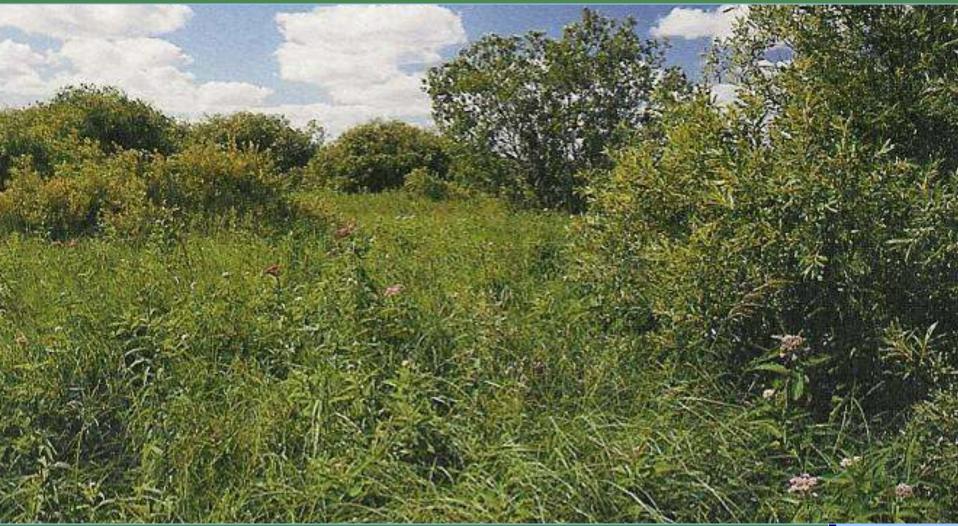


Alder Thicket





Shrub Carr









Sedge Meadow











Ephemeral Pond





Where are wetlands on the landscape?

- ~ 15% of Wisconsin's land cover
- 80% adjacent to lakes, rivers and streams
- 20% "isolated"
- 75% are privately owned
- Many, but definitely not all, appear on Wisconsin Wetland Inventory maps

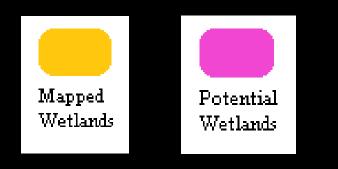


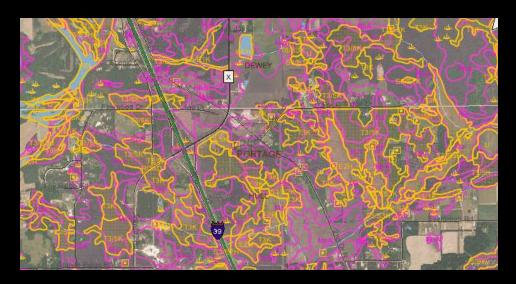


Identifying wetlands

Step 1: Review Maps

- WDNR Wetland Indicator maps
- Maps provided by County planning and zoning department web-sites

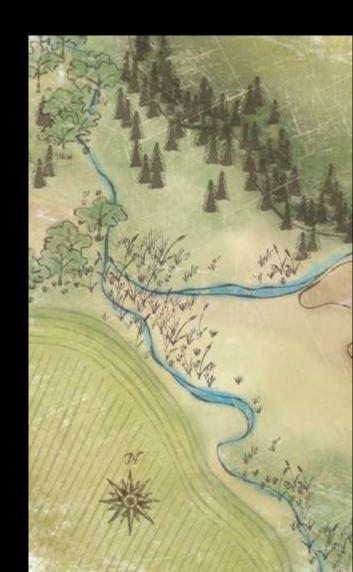




Identifying wetlands

Step 2: Look for Physical Clues Using WDNR's "Wetland Clues Checklist"

Step 3: Consult a Professional



Why do Wetlands Matter?

Wetlands perform many important "functions" on the landscape and for our communities.



David Schwaegler

75% of Wisconsin's wildlife species use wetlands during some stage of their lifecycle

Jack Bartholmai

<u>Eco</u>tourism is the largest growing sector of our nation's tourism industry . . . \$3.8 billion dollars in annual retail sales and 72,000 jobs are associated with WI's hunting, fishing, and other outdoor recreation economy. Wetlands remove pollution, trap sediments, remove nutrients and break down toxins, helping to maintain clean and healthy waters for streams, rivers and lakes.

Gary Shackelford

Kate Redmond

Wetlands reduce flooding by soaking up runoff like sponges and storing and slowly releasing floodwaters after storms



Jeff Kraemer

Groundwater connections



Shoreline Protection



Fisheries habitat

Walleye – Eric Engbretson

Why do Wetlands Matter?

Wetland Public Functions = Benefits

(...but these benefits are still poorly understood)



Wetlands Educational Tools

- Increase public awareness of wetland values
- Motivate citizens to explore and enjoy wetlands
- Generate community pride in local wetland treasures
- Catalyze community involvement in stewardship and protection of local wetland treasures





Wetland Gems Program



WHAT ARE WETLAND GEMST

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this our website for more information on this project, was a successful and orygons have



GEMS

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100 WISCONSIN WETLAND GEMS NE-30 Peshtigo River Delta

SG1 Chiwaukee Prairie SG& Des Plaines River Floodplain & Marshes SG3 Germantown Swamp SG-4 Renak-Polak Woods SG5 Root River Riverine Forest SGő Warnimont Bluff Fens

Southeast Region SEI Beulah Bog S6& Cedarburg Bog SE3 Cherokee Marsh SE4 Horicon Marsh

SES Huiras Lake SEG Lulu Lake S67 Milwaukee River Floodplain Forest SE& Nichols Creek SEQ Rush Lake SE10 Scuppernong River Area SE11 Spruce Lake Bog SE/2 Sugar River Floodplain Forest SE/D Waubesa Wetlands SE44 White River Marsh

C-1 Bass Lake Fen & Lunch Creek Sedge Meadow C-S Bear Bluff Bog C-3 Black River C-4 Blue Swamp C-5 Comstock-Germania Marsh C-6 Dewey Marsh C-7 Jay Creek C-8 Page Creek Marsh C-9 Quincy Bluff & Solberg Lake C-10 Suk-Cerney Wetlands C-11 Summerton Bog

West Region W-1 Blg Swamp

W-2 Fort McCov W-3 Kickapoo Valley Reserve

#4 Lower Chippews River Delta

- W-5 Lower St. Croix River Corridor W-6 Lower Wisconsin River &
- Wyalusing State Park
- W-7 Oak Ridge Lake W-8 Snow Bottoms
- W-9 Trempealeau River
- Sedge Meadow W-10 Upper Mississippi &
- Trempealeau River National Wildlife Refuges
- W-11 Van Loon Bottoms W-12 Whitman Bottoms

Northeast Region

- NE-1 Black Ash Swamp NE-2 Brazeau Swamp NE-3 Hortorwille Bog NE-4 Kangaroo Lake NE-5 Kohler Andrae Dunes NE-6 Mink River Estuary NE-7 Miscauno Cedar Swamp NE-8 Moonlight Bay &
- Connected Wetlands NE-9 North Bay

NE-15 Wolf River Bottoms NG-1 Atkins Lake & Hiles Swamp NC-2 Bear Lake Sedge Meadow NC-3 Bogus Swamp NC-4 Flambeau River State Forest NG-5 Grandma Lake NC-6 Hunting River Alders NC-7 Jump-Mondeaux River Floodplain NC-8 Kissick Alkaline Bog NG-9 Rice Creek NG-10 Savage-Robago Lakes NG-11 Spider Lake NC-12 Toy Lake Swamp NG-B Turtle-Flambeau

NE-11 Point Beach & Dunes

NE-13 Shivering Sands &

Connected Wetlands NE-14 West Shore Green Bay

NE-12 Rushes Lake

Manitowish Peatlands Northwest Region NW-1 Belden Swamp

NW-2 Black Lake Bog NW-3 Blomberg Lake NW-4 Blueberry Swamp NW-5 Brule Glacial Spillway NW-6 Crex Meadows & Rice Lake NW-7 Empire Swamp NW-8 Erickson Creek Peatlands NW-9 Fish Lake Meadow NW-10 St. Croix & Namekagon River Corridor Superior Region SU-1 Bark Bay & Lost Creek Bog SU-2 Bibon Swamp

SU-3 Big Bay SU-4 Kakagon-Bad River Sloughs SU-5 Nernadji Floodplain Forest SU-6 Outer Island Sandspit & Lagoon SU-7 Pokegama-Camegle Wetlands SU-8 Red Cliff Raspberry Bay SU-9 Sand Bay SU-10 St. Louis River Marshes

SU-11 Stockton Island Tombolo SU-12 Sultz Swamp Workhorse Wetland WH-1 Turtle Valley Wildlife Area

Wildlife Habitat WH-8 Spoehr's Marsh: Fishery Habitat WH-3 MMSD Greenseams

Program: Flood Attenuation WH-4 Halfway Creek Marsh: Water Quality Protection WH-5 Oconto Marsh: Shoreline Protection WH-6 Pheasant Branch:

Groundwater Connections WH-7 Mead Wildlife Area: Recreation & Education



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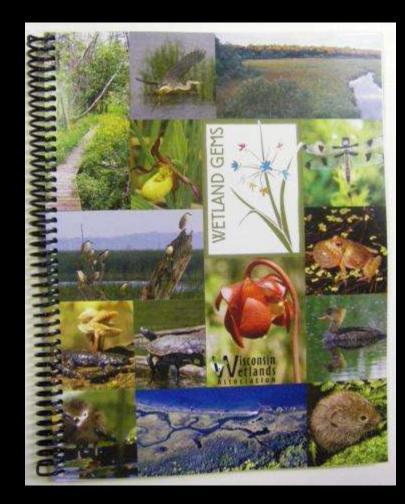
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Wetland Gems Program





KANGAROO LAKE



ECOLOGY & SIGNIFICANCE

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Wetlands Educational Tools

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"Wetlands of Wisconsin"



Wetland Gems Program

Who We Are Our Programs Issues and News Join / Give Calendar Wetland Directory Protecting Wetlands Wetlands of Wisconsir Restoring Wetlands Resources and Links Search Our Site

Bull Frog

Frog "Slide" Photos © A.B. Sheldon

Songs" © Randy Korb. Used by Permission

Home

Wisconsin's Wetland Gems



INTRODUCTION TO WETLAND GEMS

In May 2009, in celebration of American Wetlands Month, WWA launched our new *Wetland Gems* program. This program aims to increase public awareness of and appreciation for all of the state's wetlands and to generate community pride in and commitment to stewardship of local wetland treasures that have statewide, national, and even international importance.

What are Wetland Gems? Wetland Gems are high quality habitats that represent the wetland riches - marshes, swamps, bogs, fens and more - that historically made up nearly a quarter of Wisconsin's landscape. Critically important to Wisconsin's biodiversity, these natural treasures also provide our communities with valuable functions and services as well as recreational and educational opportunities. They are landscapes that both preserve the past and inspire for the future.



<u>www.wisconsinwetlands.org/gems.htm</u>



Local Outreach Program

<u>Goals</u>

- Improve wetland protections
- Educate local leaders on the public benefits of protecting and restoring wetlands
- Reduce regulatory conflicts and inadvertent wetland fill
- Improve consistency in decision making across local, state and federal jurisdictions
- Improve integration between wetland protection and related programs (e.g. flood risk management)



Local Wetland Protection Challenges

- •Limited authority (real *and* perceived)
- •Expertise
- Capacity
- •Inaccurate maps
- And many more....

This is where the zoning map was supposed to go!





Local Decision Makers' Guide

LAND USE AND WETLANDS:

A Local Decision Makers Guide to Wetland Conservation

All local decision makers, whether an elected as appointed offices, volunteer committee member, or staff, take difficult operations about here to ment community media for housing, public infrastructure, and accounting development while also protecting sensitive natural essences. Land use conflicts are continue, and in Wisconstructure welland rich landscape some of the most difficult creationse wetlands.

Though wetlands were once perceived as waitelands, today the natural functions and public benefits of wetlands are well understood by both scientifics and land managers. Wetlands now receive special percentations useler both state and finderal law and public support for wetland percentation has intreased tremendously in recent decades.

Despite these gains, large gaps still exist in the public's understanding of what and when wetlands are why they matter; and how they are protected. These gaps hell public controlerates over wetland development proposals, and sometimes result in land use devices being made without full or accurate information alout the economic and ecological consequences of wetland loss.

The purpose of this publication is to improve workard conservation and induce workand commencies by providing town, which is 0.09 and county land use decision makers with back information about Wacconsit workand bartings (p. 2, the variaus community benefits of workards (pp. 3-6), workard parent improvements (pp. 4-5), and practical spectral will hop local land use officials consider workard conform in their decision making (pp. 6-2).

Thank you for your interest in protecting Wilconsin's writtand heritage. For more information on the weillands of Wisconsin and Wisconsin Weitlands Associations, outstand, and spolicy programs, planner writt www.eliceonstruentands.org.

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Released in 2009

- 8-page brochure provides basic wetland information
 - Wetland types
 - Common questions about wetland permits
 - Practical steps for improving protection and restoration
 - Tools for wetland ID



Local Decision Makers' Guide

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Weblands Association

LAND USE AND WETLANDS:

A Local Decision Makers Guide to Wetland Conservation

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Audiences:

- Town, village, city or county –
- Boards of Supervisors
- Boards of Adjustments or Appeals
- Planning, Zoning, & Land Conservation Commissions or Committees
- Citizens & other organizations
- Free download online
- Print copies available upon request (no charge)



Up Next: Opportunities & Tools for Improved Local Wetland and Land Use Decision-Making

Questions?

Mink River Estuary – Door County, Photo – Clint Farlinger



BREAK UNTIL 10:45am

Up Next: Opportunities & Tools for Improved Local Wetland and Land Use Decision-Making



Local Outreach Program

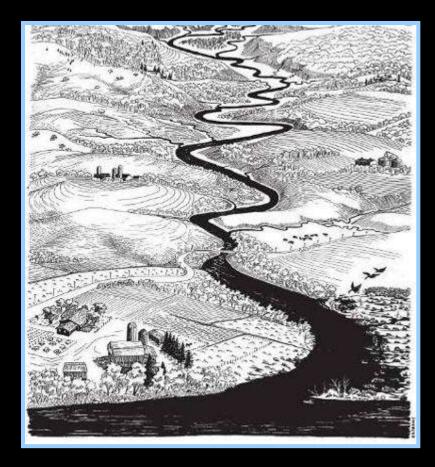
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- Improve wetland protections
- Educate local leaders on the public benefits of protecting and restoring wetlands
- Reduce regulatory conflicts and inadvertent wetland fill
- Improve consistency in decision making across local, state and federal jurisdictions
- Improve integration between wetland protection and related programs (e.g. flood risk management)



Is Local Protection Necessary?

- Communities are connected by water
- Wetlands perform key water-related services
 - Workhorse wetlands
 - Expensive to replace and can strain budgets
- But what about from a regulatory standpoint?





Principles of Regulatory Protections

1) Discharge of Dredged & Fill Material



Wetland Delineation
 No Significant Adverse Impacts



Principles of Regulatory Protections

Alternatives Analysis Sequencing

Always required: Avoid -> Minimize

In certain situations: **Avoid** → **Minimize** → **Mitigate**



Principles of Regulatory Protections

6) Compensatory Mitigation

 Does not alleviate an applicant's obligation to FIRST avoid and THEN minimize impacts





7) Public Participation8) Jurisdiction . . .



Federal Wetland Protection

- Jurisdiction (Section 404 of Clean Water Act) limited to wetlands with *evident* connection to surface waters (e.g. lakes, rivers, streams)
 - SWANCC decision
- Protection against direct impacts
- Unregulated activities
 - Agriculture, forestry
 - Excavation
 - Vegetation removal





State Wetland Protection

- Jurisdiction allows protection of all wetlands regardless of location (and size or type)
- DNR reviews projects for compliance with state wetland water quality standards ("NR 103")
- Same federal regulatory gaps exist at state level





Limits on Federal/State Protection

- Complex jurisdiction depending on federal or state involvement
- Federal / state wetland program always vulnerable to further dismantling
- Several regulatory gaps
- Minimal land use authority
- Case-by-case permitting
 - Limited ability to consider wetland loss and degradation at a watershed or landscape scale



Shoreland Zoning

- February 2012
- What standards stayed the same?
 - Lot sizes
 - Structural setbacks (75 ft.)
 - Vegetated buffers (35 ft.)
- What standards changed?
 - Shoreline buffers
 - Impervious surface limits
 - More flexibility for nonconforming principal structures
 - Shoreland mitigation requirements
- Attend Heidi Kennedy's (DNR Shoreland Policy Coordinator) presentation Wednesday, 2:35-3:15pm for more detail





Shoreland-Wetland Zoning

Basic shoreland-wetland zoning (NR 115) requirements

- Mapped wetlands, per WI Wetland Inventory, must be zoned in shoreland-wetland district
- Permitted uses consistent with federal and state wetland regulatory exemptions
 - Other uses considered prohibited
- No significant adverse impacts







Is Local Protection Necessary?

YES!

- No longer can rely exclusively on federal and state wetland protection
- Local governments have clear authority and are better positioned to control activities in and adjacent to wetlands
- Need/opportunity to address longstanding challenges



What are Counties Doing?



Coastal County Inventory

- Grant support from WI Coastal Management Program
- Learn how counties already protect wetlands
- Use findings to evaluate the extent to which land use decisions protect or fail to protect wetlands
- See handout for Q&A template

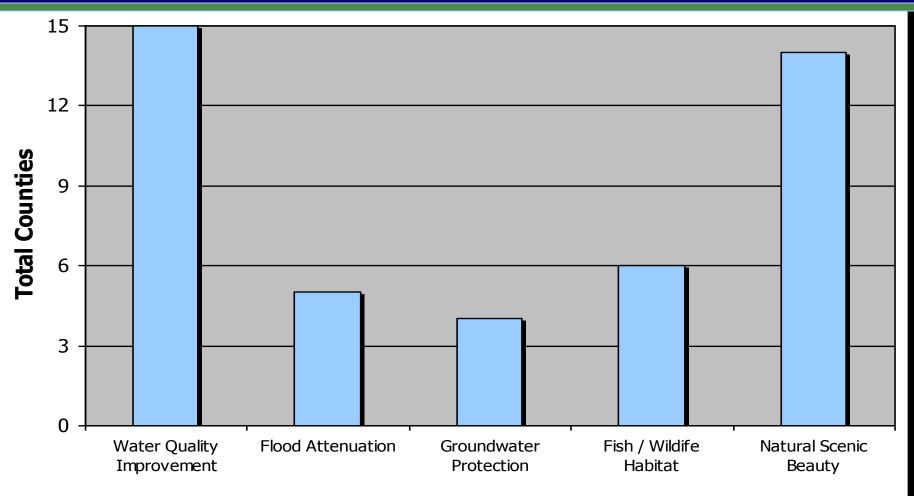


Does the Stated Purpose of Ordinance Explicitly Include Protecting and/or Restoring Wetlands?

County	Explicitly Mentioned	Identified as Means to Realize a Stated Goal	Not Identified
Ashland		X	
Bayfield			x
Brown		X	
Door	X		
Douglas		X	
Iron		X	
Kenosha	X		
Kewaunee		x	
Manitowoc			x
Marinette		x	
Milwaukee			x
Oconto			x
Ozaukee		X	
Racine	X		
Sheboygan			x
Total	3	7	5



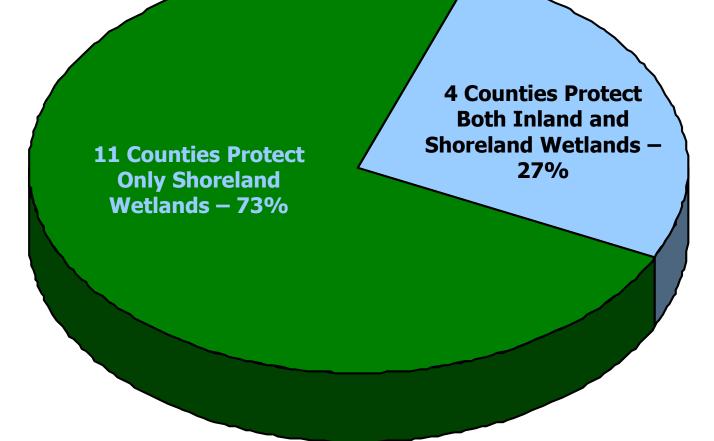
Coastal Counties Identifying Goals that can be Supported by Wetland Conservation



Goals that can be Supported by Wetland Functions

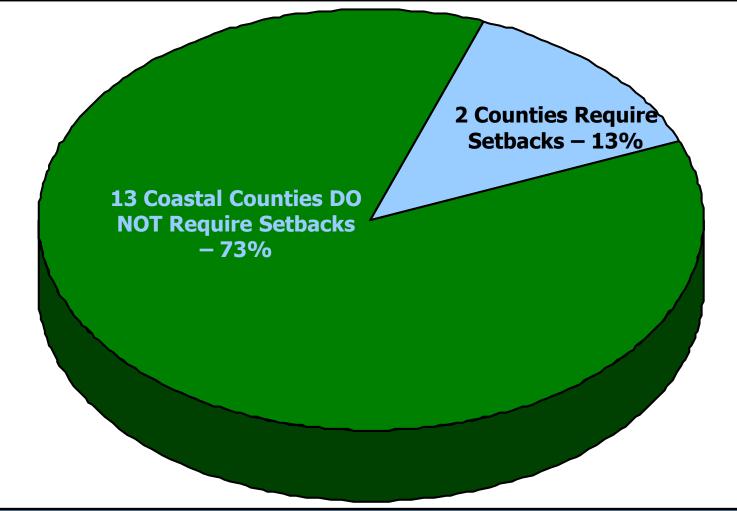


Does the Coastal County Protect Both Shoreland and Inland Wetlands?





Are Wetland Setbacks Required?



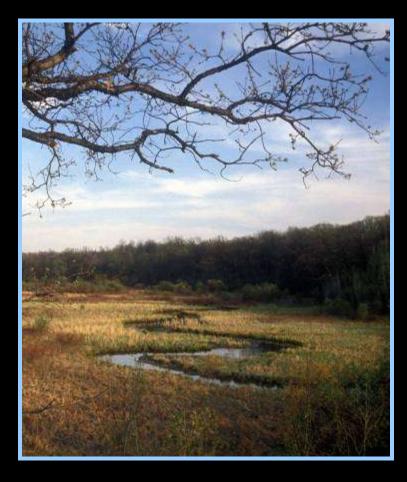


Other Key Findings

- All strictly rely on WWI maps
 - All zoning staff cited this as the single largest barrier to more effective wetland protection
- Bayfield and Oconto Co. have strong programs to deter wetland fill
- Subdivision Ordinances:
 - 4 counties identify wetlands as areas unsuitable for development (or land division)
 - 1 county requires submission of a wetland delineation



Zoning Recommendations



- Based primarily on Coastal County Inventory
 - Trends among 15 coastal counties offered transferable lessons
- Reviewed by
 - WI County Code Administrators
 - WDNR Shoreland Policy Coordinator
 - UWEX Center for Land Use Education



Project Approach

- Window of opportunity with NR 115 revisions
- Deliberate focus on regulatory side
 - Many non-regulatory (e.g. planning) actions can be taken
- A suite of recommendations are provided as solutions to problems, relevant to local concerns
 - Various options included to allow local government to choose at their discretion
 - Use examples of policies already enacted across WI



Modify Purpose and Intent Section

Option: Identify wetland protection as a distinct goal

- Examples:
 - Door County "to preserve wetlands"
 - Kenosha and Racine County "to obtain the wise use, conservation, development and protection of...wetlands...

Option: Recognize how wetland protection and restoration advances other zoning objectives





Protect All Shoreland Wetlands

Option: Clearly indicate that all wetlands in the intended jurisdiction are protected

i.e. Move away from strict reliance on WI Wetland Inventory maps

Option: Allow the use of best available data to delineate shoreland-wetland (or wetland) districts

 Kenosha County – . . . "shall develop district maps reflecting the best data available," and "the district delineation process shall make use of the <u>most recent</u> <u>version</u> of the Wisconsin Wetland Inventory Maps; and other maps . . ."



Notify about Wetland Laws and Condition Approval on Receipt of Wetland Permits

- Option: Comply w/ Notification Law (2009 WI Act 373)
 - Codify notice in ordinance and attach to permit applications: "You are responsible for complying with state and federal laws concerning construction near or on wetlands . . .
 - Walworth County superimposed notice and landowner signature line onto WDNR's Waking up to Wetlands brochure





Zoning Recommendation

Condition Approval on Receipt of Wetland Permits or Require Local Wetland Permit

- <u>Option</u>: Condition local approvals upon receipt of wetland permits.
- Option: Require <u>local</u> wetland permit
 - Bayfield County Class B special use permit for filling of any wetland. Cannot be approved until federal / state wetland permit issued.
 - Brown County Requires permit for land disturbance > 500 sq. feet within 100 feet of any shoreland wetland.
 - Oconto County Grading permits subject to NR 103, wetland water quality standards





Zoning Recommendation

Designate Wetlands as Unsuitable for Development

- Option: Include a definition of buildable areas, developable building site
 - Ashland & Marinette County
- Option: Incorporate buildable area standards into minimum lot size requirements
 - Oneida County
- Option: Include a statement in shorelandwetland district that the district is seldom suitable for building sites.



Use Wetland Conservation as a Shoreland Mitigation Option

- Option: Establishing wetland structural setbacks or vegetated buffers
- Option: Restoring or enhancing the functions of a former or degraded wetland
- Option: Recording a conservation easement





Protect Inland Wetlands

Option: Create a wetland district

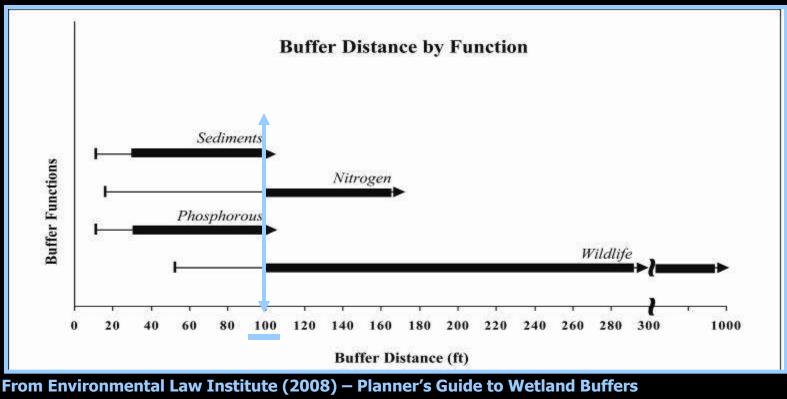
- Door Wetland (W)
- Kenosha Lowland Resource Conservancy (C-1)
- Oconto Conservancy (C)
- Bayfield Setback requirements for all wetlands

 Option: Selectively protect inland wetlands w/ conservancy or other districts
 Use criteria in NR 103 - Area of Special Natural Resource Interest (ASNRI) wetlands



Adopt Setback or Buffer Requirements

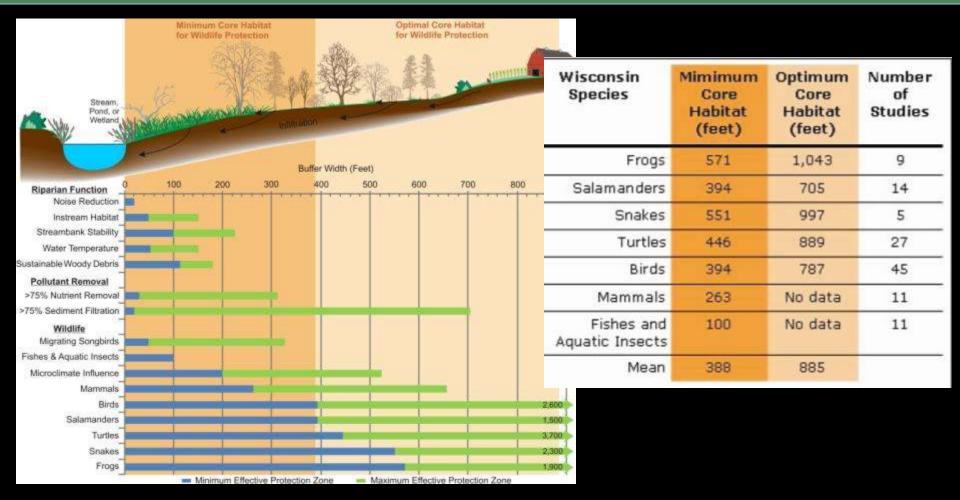
Option: Science-based-buffer (or "core-habitat") with natural vegetation preserved and/or restored





Zoning Recommendation

Adopt Setback or Buffer Requirements



From Southeastern Wisconsin Regional Planning Commission (2010) Managing the Water's Edge



Zoning Recommendation

Adopt Setback or Buffer Requirements

- **Option:** Structural setback consistent with other state rules
 - NR 115 requires 75 foot setback for lakes, rivers, and streams
 - NR 151 requires protective area distances up to 75 feet depending on wetland type (e.g. fen).

• **Option:** Structural setback that is politically feasible

- Examples:
 - Bayfield <u>25 feet</u> from any mapped wetland 2 acres or larger.
 - Dane <u>75 feet</u> from any mapped shoreland or inland wetland
 - Door <u>35 feet</u>, except reduced to 10 feet in some res. districts.
 - Kenosha <u>35 feet</u> just in Rural Cluster Development district and NR 151 distances whenever stormwater permit required.
 - Polk <u>25 feet</u> from mapped shoreland wetlands
 - Waupaca <u>25 feet</u> from mapped shoreland wetlands



Other Recommendations

- Adopt "avoid and minimize" standards for indirect wetland impacts
 - Stormwater runoff
 - Hydrologic alterations (grading)
 - Excavation
 - Vegetation removal
- Adopt planned unit development and/or conservation subdivision provisions
- Allow flexibility in provisions that function at crosspurposes to wetland protection
- Adopt provisions that encourage wetland restoration and expedite permit approvals



Going Above & Beyond NR 115

- Wisconsin County Code Administrators (WCCA) NR 115 Guidebook
 - Identifies ways counties can exceed state minimum standards
 - Chapter 6 devoted to wetland protection





Our Next Steps

- Partnerships (e.g. WCCA, Center for Land Use Education, WI Lakes)
 Promotion of zoning recommendations (e.g. newsletters)
- Looking for interested counties that would consider adopting and implementing recommendations
 - Local or regional presentations / workshops for staff, boards, committees, or organizations
 - WI Coastal Management Program may help fund workshops and ordinance development for coastal counties
 - We *may* be able to secure funding for similar steps in non-coastal counties
- Further research (e.g. inventory of stormwater ordinances) and outreach (e.g. land division / stormwater recommendations)
- How can we help you?



How Lake Organizations and Citizens can get Involved

- Share recommendations with city, town, village, or county staff and board / committee members
- Build support for adoption of recommendations
 - Use aforementioned tools in your efforts
 - Invite WWA to attend meetings / hearings pertaining to adoption of local wetland policies
- Provide additional examples of wetland-friendly policies from your counties (see handout)





Land Use and Wetlands Webpages





How Wetlands Benefit Your Community



Understanding the Wetland Permit Process



Understanding and Identifying Wetlands



www.wisconsinwetlands.org/localgovs.htm



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WISCONSIN COASTAL MANAGEMENT PROGRAM





Thank You

Questions?

Zoning Recommendations, Coastal County Inventory, and Local Decision Makers' Guide available at:

www.wisconsinwetlands.org/localgovs.htm

Contact Information: Kyle Magyera – 608.250.9971 <u>kyle.magyera@wisconsinwetlands.org</u>



Discussion Questions

- What wetland-related challenges and barriers exist at the local level?
 - Opportunities?
- What information would be useful to help you or your community identify, protect, and restore wetlands?
- What opportunities do you see for Wisconsin Wetlands Association to help and/or partner with lake organizations or other groups?





WDNR Wetland Toolkit

- Wetland Indicator maps
- Waking up to Wetlands brochure
- Wetland clues
 checklist



www.dnr.wi.gov/wetlands/locating.html

