









Nick Miller, Tom Bernthal, John Wagner, Mike Grimm, Gary Casper, Joanne Kline

The Nature Conservancy
Wisconsin Department of Natural Resources
UW-Milwaukee Field Station



The Joyce Foundation

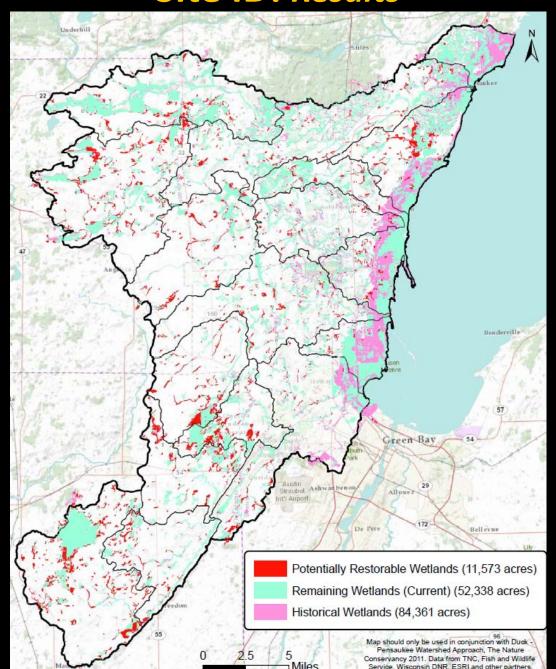


Site ID: Types of Opportunities

- Restoration
 - Re-establishment
 - Rehabilitation
- Creation
- Enhancement
- Protection



Site ID: Results

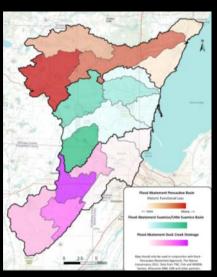


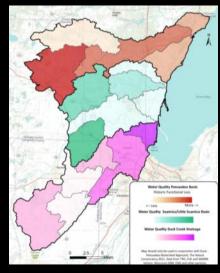


Watershed Profile: Ecosystem Service Losses

(Based on NWI+)

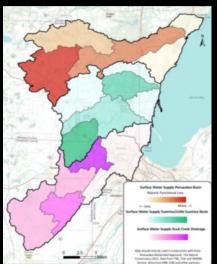
Flood Abatement Water Quality Protection

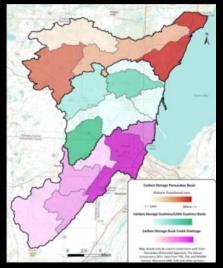




Surface Water Supply

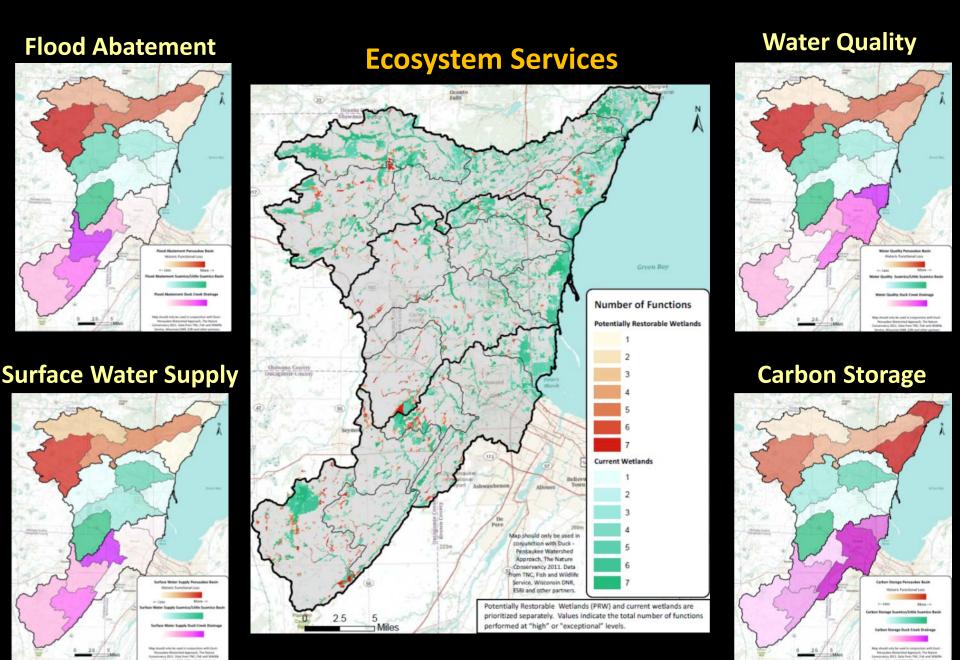
Carbon Storage







Site Selection



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But What About Wildlife? Site Prioritization: Wildlife Habitat Forested Swamps





Table 5a. Wildlife Tool Matrix: Habitat targets, representative species, and habitat associations in the Duck-Pensaukee Watershed.

	Wetlands						Uplands													
Conservation targets & Representative species	Shrub swamp	Shrub bog	Forested wetland (broadleaf deciduous)	Forested wetland (evergreen)	Forested wetland (tamarack)	Floodplain forest	Forested wetland (ridge & swale)	Emergent wetland	Stream (cold)	Stream (cool)	Stream (warm)	River (warm)	Inland lakes, ponds, impoundments	Coast: Beach	Upland Forest (deciduous)	Upland Forest (mixed)	Upland Forest (evergreen)	Grassland/ Herbaceous	Pasture/Hay (surrogate grassland)	Upland Scrub/Shrub
OPEN WETLANDS & WATERS		2						3					3					2	2	
Am. Bittern, Blue-winged Teal, Black Tern		2						3					,					2		
BEACHES								1					1	3						
Caspian Tern, Common Tern								1					1	3						
SHRUB SWAMP	3		1		1										1					1
Am. Woodcock, Willow/Alder Flycatchers	3		1		1										1					
FORESTED SWAMP			3	3	2	1	3		1	1	1	1	1		2	2	2			
Canada Warbler, Northern Flying Squirrel			3	,	2		3		1	1	1	_	1		2	2	2			
INTEGRATED LANDSCAPE	2	2	2		1	1	3	3			1	3	3		2	2	1	3	3	2
Blanding's Turtle																				
RIPARIAN HABITAT	3	1	2	1	1	3	1	1	3	3	3	3	1		2	2		3	2	2
Wood Turtle	,																			
SHOREBIRD STOPOVER HABITAT						Sco	res ada	pted f	rom M	ligrato	ry Sho	rebird	Stopo	ver Mo	del ¹					

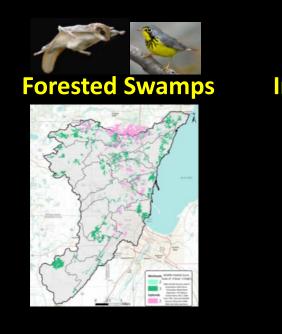
Strength of Association: 3 = significant, 2 = moderate, 1 = minimal, Null = none

¹Wisconsin model unpublished, adapted from model developed in Lake Erie Basin (Ewert et al. 2005)

Conservation targets & Representative species	Proximity factors
Open wetlands and waters: Am. Bittern, Bluewinged Teal, Black Tern	Grassland or surrogate grassland must be adjacent to wetland and >32 ha; emergent marsh patches must be >10 ha.
Beaches: Caspian Tern, Common Tern	Emergent wetland and open water must be within 2 miles of beach habitat
Shrub swamp: Am. Woodcock, Willow/Alder Flycatchers	Non-shrub-swamp habitats must be within 600m of shrub swamp (otherwise, scored 0)
Forested swamp: Canada Warbler, Northern Flying Squirrel	Wetland forests must be >6 ha and occur within a patch of contiguous forest (upland and/or wetland) >48 ha. Upland forests must be >48 ha and occur on soils that can support mesic (maplebeech) or wetter forests. Streams & lakes must occur within forest (upland and/or wetland) >28 ha.
Integrated landscape: Blanding's Turtle	If "3" wetland types are adjacent to "3" upland types, then all types within 300m receive the indicated scores. If not, then none of the habitat types (wetland or upland) are scored.
Riparian habitat: Wood Turtle	Rivers/streams must be adjacent to natural landcover. All habitats must be within 300m of "clean" channels (i.e., no 303(d) designation or other polluted status). Ponds/lakes must be <1 ha.
Shorebird stopover habitat	N/A



Site Prioritization: Wildlife Habitat









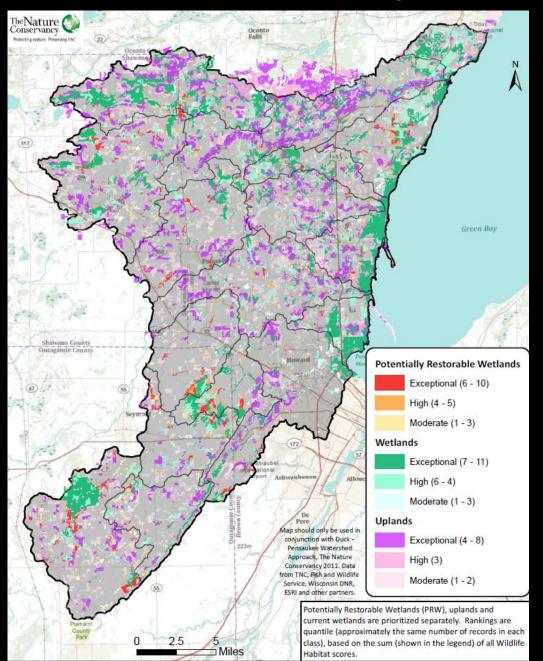






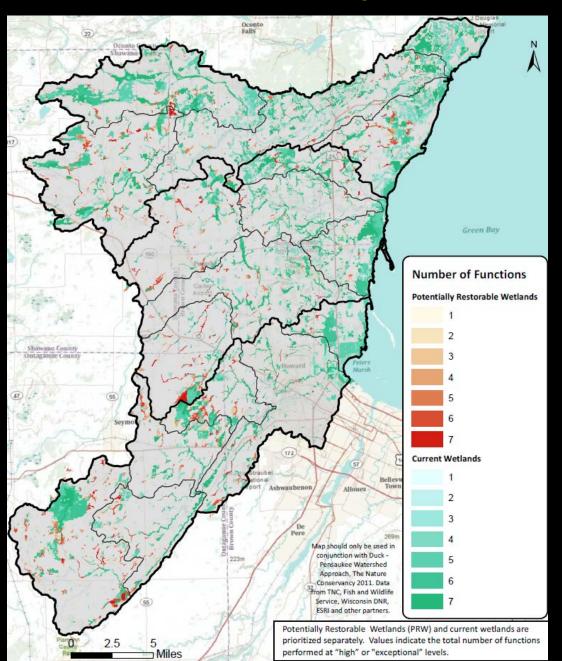


Site Prioritization: Wildlife Habitat





Site Prioritization: Ecosystem Services



http://maps.tnc.org/DuckPenTool