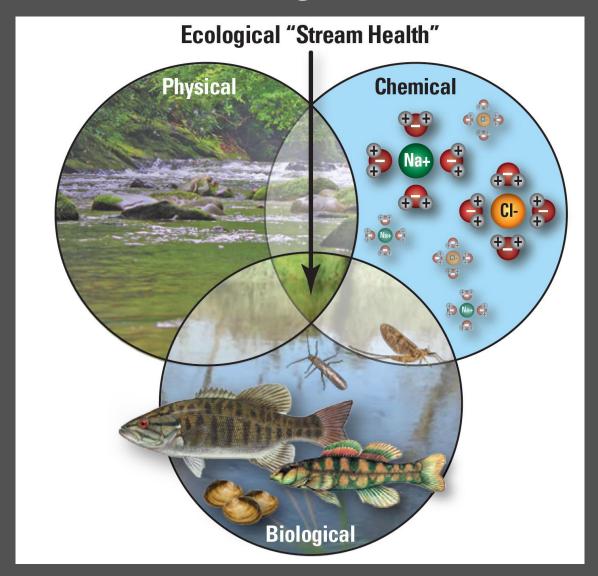
# Southeastern Wisconsin Regional Planning Commission



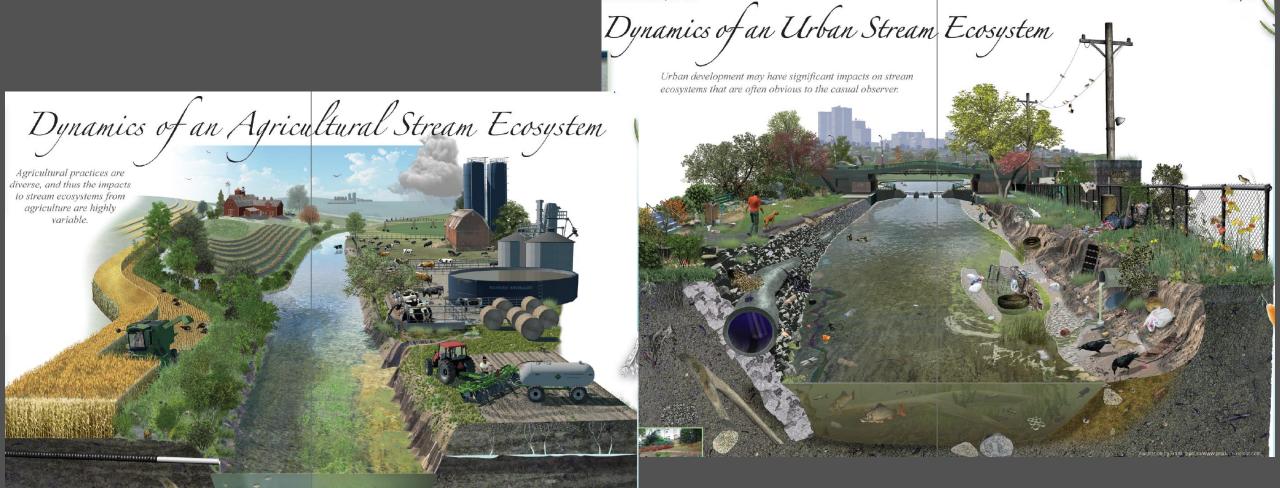
### Regional Natural Areas Plan Update

April, 2024 Tom Slawski, Chief Biologist



Source:Illustrations by Frank Ippolito/www.productionpost.com. Modified from D.M. Carlisle and others, The quality of our Nation's waters—Ecological health in the Nation's streams, 1993–2005: U.S. Geological Survey Circular 1391, 120 p., http://pubs.usgs.gov/circ/1391/, 2013.



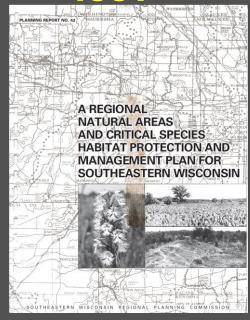


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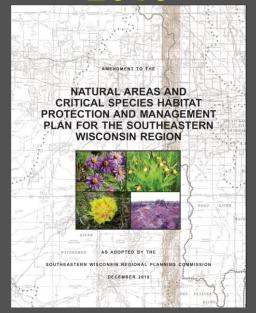
August 1989-Natural Area Protection and Management Planning Program Prospectus—Identified 3 serious problems:

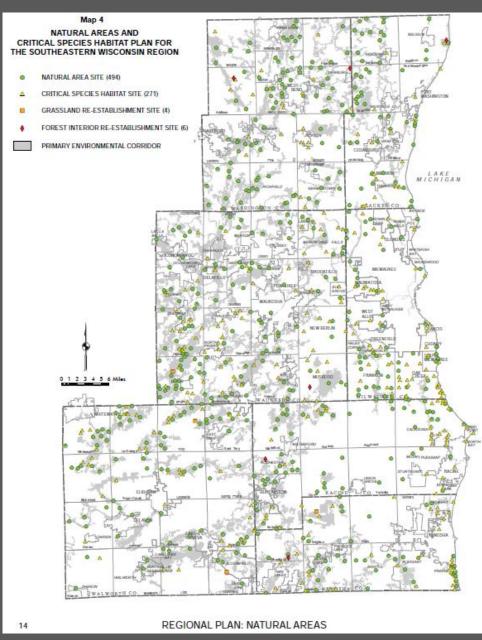
- 1. Loss of significant natural areas
- 2. Loss of rare, threatened, and endangered species
- 3. Need to identify and delineate natural areas and critical habitats for rare, threatened, and endangered species

#### 1997



#### 2010





#### 494 Natural Areas Cover 101 Square Miles as of 2010

"Tracts of land or water so little modified by human activity, or which have sufficiently recovered from the effects of such activity, that they contain intact native plant and animal communities believed to be representative of the pre-European-settlement landscape."

#### Land Sites are Ranked

- NA-1: Statewide or greater significance
- NA-2: Countywide or regional significance
- NA-3: Local significance

#### Factors in ranking and designation include:

- Biodiversity
- Natural communities present and their rarity
- Structural and ecological integrity
- Extent of human disturbance

LEGEND

AQ-I: AQUATIC AREAS OF STATEWIDE OR GREATER SIGNIFICANCE

AQ-2: AQUATIC AREAS OF COUNTYWIDE OR REGIONAL SIGNIFICANCE

AQ-3 AQUATIC AREAS OF LOCAL SIGNIFICANCE

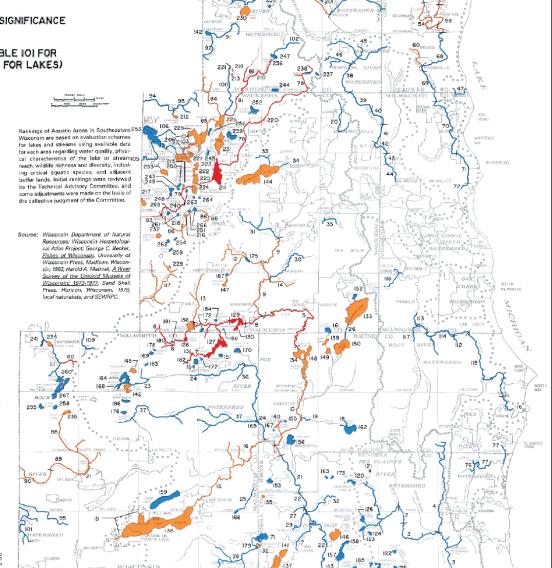
INDENTIFICATION NUMBER (SEE TABLE IOI FOR STREAM REACHES AND TABLE IO3 FOR LAKES)

CRITICAL AQUATIC HABITAT AREAS OF SOUTHEASTERN WISCONSIN

Year-1997 118 Critical Stream Reaches 148 Critical Lakes

#### Water Sites are Ranked

- AQ-1: Statewide or greater significance
- AQ-2: Countywide or regional significance
- AQ-3: Local significance



#### **>**Objectives

 Maintain the integrity of the remaining biodiversity of the region

 Preserve and protect the remaining significant geological and archeological sites of the Region



# Implementation/Framework for Protection

- **≻** State
  - SSA extension reviews
  - Natural Heritage inventory database
- ➤ Regional/County
  - Comprehensive plans
  - Corridors
  - County Park and Open Space plans
  - Transportation plans
  - County ordinance
- **≻**Municipal
  - Local County Park and Open Space plans
  - SSA amendment reviews
  - Local ordinance development







Primary environmental corridors:
 200 feet wide, 2 miles long, and 400 acres

Secondary environmental corridors:
 1 mile long and 100 acres (no minimum width)

Isolated natural resource areas:
 200 feet wide and 5 acres

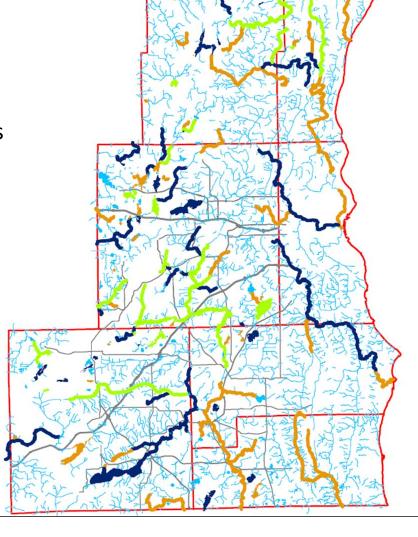


#### **Aquatic Assessment scheme update**

**Lake Score (≤100)** = Morphology and Classification (≤7) + Water Quality ( $\leq$ 8) + Macrophytes ( $\leq$ 20) + Shoreline Buffer ( $\leq$ 5) + Connectivity (≤15) + Fisheries (≤25) + Natural Heritage Inventory Listings (≤20)

**Stream Score (≤100)** = Morphology, Modification, and Classification ( $\leq$ 7) + Water Quality ( $\leq$ 8) + Macroinvertebrates  $(\leq 20)$  + Riparian Buffer  $(\leq 5)$  + Connectivity  $(\leq 15)$  + Fisheries





# **NA Summary by County**

	PR 42	2010 A	2024	Change
Kenosha	38	41	26	-15
Milwaukee	43	55	53	-2
Ozaukee	48	50	53	+3
Racine	53	55	46	-9
Walworth	74	82	81	-1
Washington	90	93	94	+1
Waukesha	101	118	125	+7
	447	494	478	-16

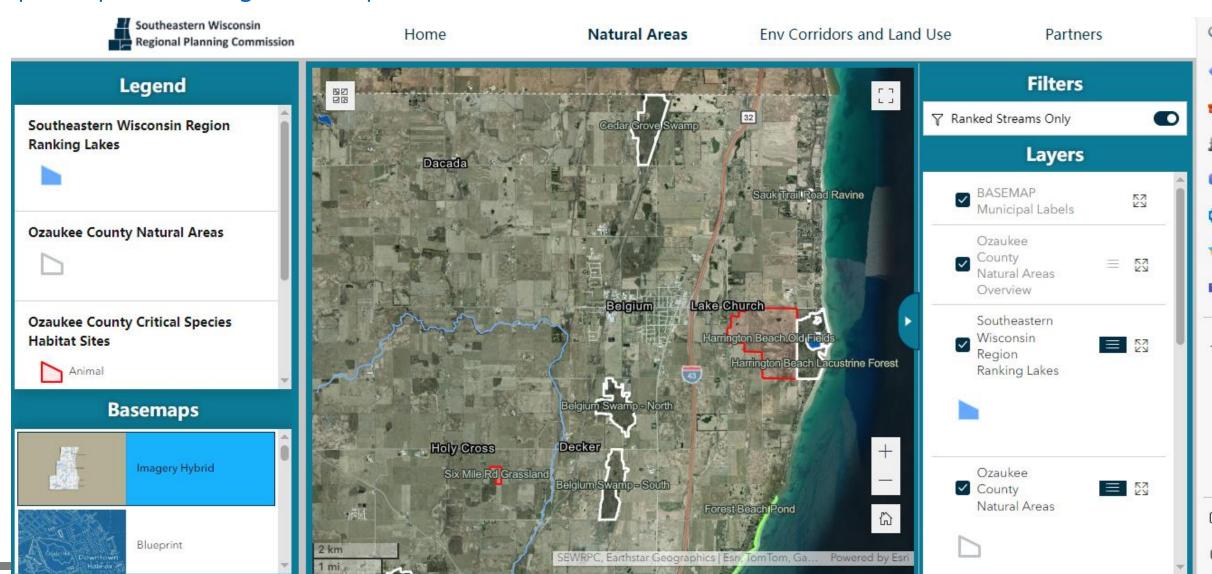
# **CSH Sites by County**

	DD 43	2010 4	2024	Classic
	PK 42	2010 A	2024	Change
Kenosha	18	71	70	-1
Milwaukee	13	55	124	+69
Ozaukee	7	17	31	+14
Racine	33	37	36	-1
Walworth	23	39	37	-2
Washington	13	21	23	+2
Waukehsa	38	71	62	-9
	145	311	366	<mark>+55</mark>

### Natural Areas Interactive Mapping Tool

**<#>** 

https://experience.arcgis.com/experience/dd84caba8f594a16be6fa274cfc3327f/



#### **Site Profiles**

Map X Cudahy Woods Natural Area Site No. 5 (NA-2)



NATURAL AREA

SURFACE WATER STREAM

PARCEL BOUNDARY

Lands Considered to be Protected Through Public or Private Ownership Interest

(Defined as lands covered in the simple by Federal, State, County, and local governments; public school districts; utility, severage, and bits districts; and lands council the simple by private organizations, including land trusts, cohools, consensation cube, compromote and other completable groups some of these lands may be valuesable to development; and, lands protected by comercialists exercises.)



factor the lands within the boundaries and/or highlighted are not open

#### Cudahy Nature Preserve: Natural Area of County-Wide or Regional Significance (NA-2)

Level of Protection: High (Conservation Ownership with Site Management Plan)

**Level of Threat: Medium (Invasive Species)** 

Size	47 Acres
Ownership	Milwaukee County
Site Management Plan	Yes
Number of Native Plant Species	178
Endangered, Threatened, or Special Concern Species	Yes, Plant and Animal

Cudahy Nature Preserve, also a State Natural Area known as Cudahy Woods, consists of a relatively large remnant tract of white oak-red oak dry-mesic forest, beech-maple northern hardwood forest, and hardwood swamp with skunk cabbage seeps. It harbors a rich ground flora that includes trout lilies (Erythronium albidum and E. americanum), Spring cress (Cardamine bulbosa and C. douglassii), toothwort (Cardamine concatenata), and many other species that have been extirpated from most of the surrounding area. American cancer root (Conopholis americana) and Beech drops (Epifagus virginiana), both fully parasitic plants that lack chlorophyll, are two of the more unique members of the Cudahy Woods plant community. They respectively depend on the presence of oaks (Quercus sp.) and American beech (Fagus americana) as hosts. The woods also supports many bird species during migration and the breeding season.

Invasive species are the primary threats to the long-term preservation of biodiversity at Cudahy Nature Preserve. There are ongoing efforts to control garlic mustard (*Alliaria petiolata*), but perhaps the greatest threats the woods' diverse and irreplaceable spring ephemeral community are exotic "bulb" species, which are actively displacing spring ephemerals in parts of the woods. Siberian squill (*Scilla siberica*) and Bossier's glory-of-the-snow (*S. luciliae*) are the most problematic, but snowdrops (*Galanthus nivale*) also poses a threat. Other invasive species present in or at the margins of the woods and warranting consideration for eradication include bush honeysuckle (*Lonicera x bella*) and common buckthorn (*Rhamnus cathartica*).

Acquisition and afforestation of adjacent properties to the west and south of the woods, which already contain some mature oaks and wetland areas, would buffer the core remnant community from surrounding development and further enhance wildlife values.



Left: White trout lily, a spring ephemeral wildflower, carpets portions of Cudahy Nature Preserve in early spring. Right: Invasive Bossier's glory-of-the-snow expanding in a portion of the woods. Credit: SEWRPC staff — Dan Carter

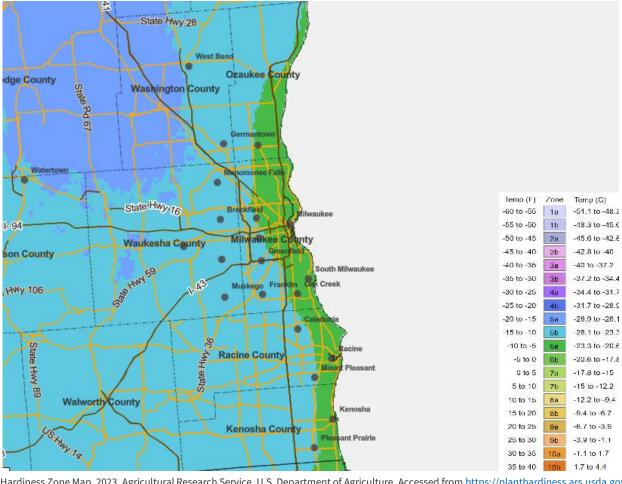
Dic

Rawson Park Woods Natural Area Profile (246040)

## Other Significant Plan changes

- ➤ Provide updated Natural Community management recommendations
- Provide recommendations to improve natural area climate resiliency
  - Wisconsin is getting warmer, wetter, with more frequent extreme weather events
  - The plan will synthesize information from existing plans and provide recommendations to improve resiliency of the Region's Natural Areas
- ➤ Provide updated Bi-annual approval process for future plan updates

#### **2023 USDA Hardiness Zone Map**



### Adjusted Timeline





# Thank You

Tom Slawski | Chief Biologist

tslawski@sewrpc.org | 262.953.3263



