

NATURAL AREAS AND CRITICAL SPECIES HABITAT PLAN UPDATE FOR SOUTHEASTERN WISCONSIN



NEWSLETTER

APRIL 2009

This newsletter provides an overview of the updated preliminary Natural Areas and Critical Species Habitat Protection and Management Plan for the Southeastern Wisconsin Region. Specifically, this newsletter presents:

- Status of implementation of the original regional plan recommendations.
- A description of the natural areas and critical species habitats that have been identified since completion of the original plan.
- Changes to the original natural areas and critical species habitat sites.
- Changes in status of endangered, threatened, and special concern species in the region.
- Changes to natural area and critical species related laws and policies.
- Preliminary recommended changes to the regional natural areas and critical species habitat protection and management plan.

BACKGROUND

The updated plan documents a proposed amendment to the natural areas and critical species habitat protection and management plan for southeastern Wisconsin. The updated plan was prepared in direct response to a March 31, 2005, letter submitted to the Commission by Gathering Waters Conservancy, a statewide land conservancy organization that serves many local land trusts and related groups in the Region, requesting the Commission to update the plan. This update reflects physical changes in the Region, as well as new findings, which have occurred since the preparation of SEWRPC Planning Report No. 42, *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin* in September 1997. The initial study identified the most important remaining natural areas, critical species habitat areas, aquatic areas, geological areas, and archaeological sites in the Southeastern Wisconsin Region, and the recommended means for their protection and management. The study was also intended to increase the dissemination of information regarding such sites to State, county and local units and agencies of government and to private interests, in order that the preservation of these sites may be properly considered, as proposals for development within the Region are advanced.

STUDY PUBLIC INFORMATIONAL MEETINGS

A series of public informational meetings have been scheduled to be held throughout the Region in April. The purpose of these meetings is to brief residents of the Region on the preliminary recommended update to the Regional Natural Areas and Critical Species Habitat Protection and Management Plan and to provide an opportunity for comment. The table below provides information on the dates and locations of the upcoming meetings. Persons may choose to attend any of the meetings they find most convenient. Staff will be available in an "open house" format from 5:00 p.m. to 7:00 p.m. to individually answer questions and provide information about updates to the regional natural areas and critical species habitat plan. A brief presentation of the plan will be made by the study staff at 6:00 p.m. Written comments may be submitted throughout the meetings, including via dictation to a court reporter.

Persons with special needs are asked to contact the Commission offices a minimum of 72 hours in advance so that appropriate arrangements can be made. Contact information may be found on the back page of this newsletter. The comment period on the preliminary recommended plan update extends through May 15, 2009, with comments accepted via U.S. mail, fax, and e-mail.

Date	Location
April 21, 2009	Riveredge Nature Center 4458 W. Hawthorne Drive Newburg, Wisconsin
April 22, 2009	Boerner Botanical Gardens Visitor Center Multi-Media Room 9400 Boerner Drive Hales Corners, Wisconsin
April 28, 2009	Kenosha County Center 19600 75 th Street Bristol, Wisconsin
April 30, 2009	Kettle Moraine State Forest Headquarters-Southern Unit Wisconsin Department of Natural Resources S 91 W 39091 Highway 59 Eagle, Wisconsin

Following these meetings, a record of public comments will be assembled and provided to the Technical Advisory Committee for the Protection and Management of Natural Areas in Southeastern Wisconsin and to the Commission for consideration in preparing a recommended plan.

IMPLEMENTATION OF THE ORIGINAL PLAN RECOMMENDATIONS

The original plan proposed the public or private protection of 427 (96 percent) of 447 identified natural areas. This total included all 40 of the natural areas of statewide or greater significance (NA-1 sites), all 122 of the natural areas of countywide or regional significance (NA-2 sites), and 265 of the 285 natural areas of local significance (NA-3 sites). The total area of natural area sites proposed to be protected under the original plan was 56,346 acres. At that time, 25,865 acres were already under protective ownership (about 46 percent), leaving a total of 30,481 acres to be acquired.

Twenty-one natural area sites recommended in SEWRPC Planning Report No. 42 for protective ownership have, in their entirety or in part, been acquired for protection since preparation of the original plan. Specifically, 1,261 acres of natural areas have been placed under protective ownership by public and private agencies. This total includes four NA-1 sites, totaling 93 acres (3.2 percent) of the NA-1 area proposed to be acquired; seven NA-2 sites, totaling 552 acres (4.3 percent) of the NA-2 area proposed to be acquired; and 12 NA-3 sites, totaling 616 acres (3.6 percent) of the NA-3 area proposed to be acquired. Eight of these sites are located in Waukesha County, six in Ozaukee County, four in Washington County, and one each in Kenosha, Racine, and Walworth counties. Of the 1,261 acres, 74 acres (6 percent) located within five different natural area sites in the Carol Beach area of Kenosha County were acquired by the Wisconsin Department of Natural Resources. The total area acquired also includes areas acquired by two land trust organizations—the Ozaukee Washington Land Trust and the Waukesha Land Conservancy. Specifically, these two land trusts' acquisitions accounted for all or parts of 15 natural area sites. A total of eight natural area sites had their protective acquisition completed, according to the recommendations of the original plan.

DEFINITION OF KEY TERMS IN THE REGIONAL NATURAL AREAS PLAN AMENDMENT

Term	Definition
Archaeological Sites	Archaeological sites are defined as those tracts of land, streambeds, or lake bottoms that include objects or other evidence of archaeological interest 100 years or more of age including, but not limited to, pottery, tools, structures, human skeletal remains, aboriginal mounds and earthworks, and ancient burial grounds.
Critical Species Habitats	Critical species habitats are broadly defined as tracts of land or water which support endangered, threatened, or rare plant or animal species. Many of the designated natural areas provide habitat for endangered, threatened, or rare species. For purposes of the natural area plan, and the plan amendment, then, critical species habitats were more narrowly defined as those sites which are located wholly or partly outside designated natural areas and which support endangered, threatened, or rare plant or animal species.
Geological Sites	Geological sites are defined as tracts of land that include such glacial features as eskers and kames, fossil beds, and rock outcrop and exposed bedrock sites of scientific and educational value. Geological sites identified as significant under the plan and the plan amendment, are classified as being of statewide or greater significance, or "GA-1" sites; of countywide or regional significance, or "GA-2" sites; or of local significance, or "GA-3" sites.
Natural Areas	Natural areas are defined as 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. Natural areas identified under the plan, and the plan amendment, are classified as being of statewide or greater significance, or "NA-1" areas; of countywide or regional significance, or "NA-2" areas; or of local significance, or "NA-3" areas.
Rare Species	Rare species are defined as those species of wild animals or wild plants native to the State of Wisconsin which occur infrequently either as individuals or in specific communities on the landscape. These are also referred to by the Wisconsin Department of Natural Resources as "special concern" species. They represent species about which a problem regarding their abundance or distribution in the State is suspected but not yet proven.
State-Designated Endangered Species	State-designated endangered species are defined as any species of wild animals or wild plants native to the State of Wisconsin whose continued existence in the State is determined by the Wisconsin Department of Natural Resources, on the basis of scientific evidence, to be in jeopardy.
State-Designated Threatened Species	State-designated threatened species are defined as any species of wild animals or wild plants native to the State of Wisconsin determined by the Wisconsin Department of Natural Resources, on the basis of scientific evidence, likely to become endangered in the State within the foreseeable future.

The original plan recommended that 110 Critical Species Habitat sites, encompassing a total of 21.1 square miles, be protected through public or private protective ownership. A single Critical Species Habitat site—the Caledonia Sanitary Sewer Right-of-Way located in Racine County—has been partially protected since preparation of SEWRPC Planning Report No. 42. This habitat is known to support one endangered plant species, bluestem goldenrod (*Solidago caesia*), and two special concern plant species, hoptree (*Ptelea trifoliata*) and heart-leaved skullcap (*Scutellaria ovata*).

The original plan recommended that three grassland reserve sites, totaling about 21.3 square miles, be established to provide critical habitat for grassland nesting bird species. There have been no known grassland habitat acquisitions since the adoption of the plan.

There have been no known documented changes in the status of the forest interior habitats, significant aquatic areas, geological areas, and archaeological sites listed in SEWRPC Planning Report No. 42.

NATURAL AREAS AND CRITICAL SPECIES HABITAT SITES THAT HAVE BEEN IDENTIFIED SINCE COMPLETION OF THE ORIGINAL PLAN

A total of 44 additional natural area sites, including six NA-2 sites and 38 NA-3 sites, and 133 additional critical species habitat area sites, have been identified in the Southeastern Wisconsin Region since the preparation of SEWRPC Planning Report No. 42.

One new geological area of local significance (GA-3) has also been identified.

These sites have all been added to the regional inventory and are documented in the updated plan (see Map 1). Table 1 lists the 44 additional natural area sites. Detailed descriptions and plant associations of each site have been coordinated and shared with the Wisconsin Department of Natural Resources, Bureau of Endangered Resources.

CHANGES TO THE ORIGINAL NATURAL AREAS AND CRITICAL SPECIES HABITAT SITES

To remain vital, the Natural Areas Plan must be periodically reviewed and revised to incorporate changes in the regional landscape. In this regard, this update of natural areas uses more complete and current information, while still employing the basic principles and concepts of the previously adopted plan, to enable a better comparison to other similar sites in the Region. Because it should not be assumed that the boundaries of natural areas should necessarily remain static, these changes often result in refinements in the delineation of the areal extent of sites. Certainly, losses of portions of natural areas are to be expected. However, expansion of boundaries may also take place through such factors as proper management techniques of surrounding marginal habitat; examination of the most recent, highest quality color aerial photography that makes natural boundaries more apparent; and additional field inspections.

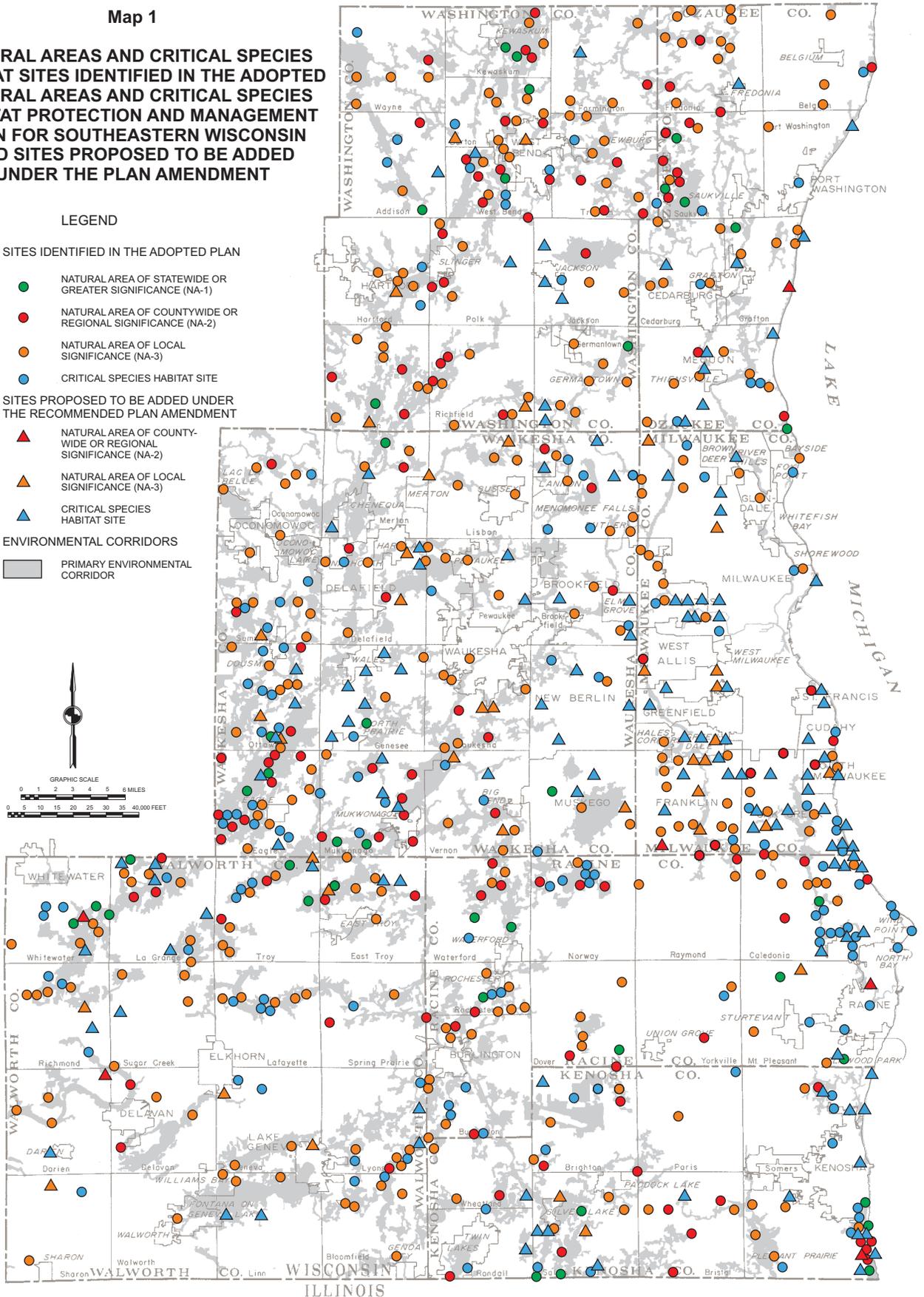
Results of this review effort follow:

- A total of nine natural areas and critical species habitat sites were upgraded in classification through a thorough re-evaluation of their status (see Table 2). This includes four critical species habitat areas upgraded to NA-3 status, three NA-3 quality sites upgraded to NA-2 status, and two NA-2 quality sites upgraded to NA-1 status.
- A total of 22 NA-1 quality sites showed a net change in their areal extent. Of this total, nineteen showed net increases, while three decreased in mapped area. The largest increase—141 acres— occurred in the Scuppernong Prairie State Natural Area, where recent management, including prescribed burning and brush removal, has effectively restored what had been adjacent marginal habitat.
- A total of 63 NA-2 quality areas showed a net change in their areal extent. Forty-seven of these showed net increases, while 16 decreased in mapped area. The largest increase—606 acres—occurred in the Eagle Oak Opening and Dry Prairies with the addition of adjacent Kettle Moraine State Forest woodland.
- A total of 156 NA-3 quality sites showed a net change in their areal extent. Ninety-seven of these showed net increases, while 59 decreased in mapped area. The largest increase—1,965 acres—occurred in the Muskego Lake Marsh where managed water level fluctuations have increased the area of shallow marsh and decreased the areal extent of open water.

Map 1

NATURAL AREAS AND CRITICAL SPECIES HABITAT SITES IDENTIFIED IN THE ADOPTED PLAN AND CRITICAL SPECIES NATURAL AREAS AND CRITICAL SPECIES HABITAT SITES IDENTIFIED IN THE ADOPTED PLAN FOR SOUTHEASTERN WISCONSIN AND SITES PROPOSED TO BE ADDED UNDER THE PLAN AMENDMENT

- LEGEND**
- SITES IDENTIFIED IN THE ADOPTED PLAN**
- NATURAL AREA OF STATEWIDE OR GREATER SIGNIFICANCE (NA-1)
 - NATURAL AREA OF COUNTYWIDE OR REGIONAL SIGNIFICANCE (NA-2)
 - NATURAL AREA OF LOCAL SIGNIFICANCE (NA-3)
 - CRITICAL SPECIES HABITAT SITE
- SITES PROPOSED TO BE ADDED UNDER THE RECOMMENDED PLAN AMENDMENT**
- ▲ NATURAL AREA OF COUNTYWIDE OR REGIONAL SIGNIFICANCE (NA-2)
 - ▲ NATURAL AREA OF LOCAL SIGNIFICANCE (NA-3)
 - ▲ CRITICAL SPECIES HABITAT SITE
- ENVIRONMENTAL CORRIDORS**
- PRIMARY ENVIRONMENTAL CORRIDOR



Source: SEWRPC.

Table 1

ADDITIONAL NATURAL AREAS IDENTIFIED SINCE PREPARATION OF SEWRPC PLANNING REPORT NUMBER 42

Site Name	Location	Proposed Classification Code	Size (acres)	Existing and Proposed Ownerships	Site Description
First Avenue Prairie	Kenosha County T1N R23E Sections 29, 30 Village of Pleasant Prairie	NA-2	12	Wisconsin Department of Natural Resources	High quality Lake Michigan wet-mesic prairie complex
Center Lake Woods and Wetlands	Kenosha County T1N R20E Sections 21, 22 Town of Salem	NA-3	72	Town of Salem and private	Species-rich ravine woods associated with good quality wetland
Silver Lake Wetlands	Kenosha County T1N R20E Section 8 Town of Salem	NA-3	101	Private	Good quality wetlands at north end of Silver Lake
Adams Prairie	Milwaukee County T5N R21E Section 32 City of Franklin	NA-2	37	Private	Species-rich, high quality wet-mesic prairie and sedge meadow complex
60 th Street Woods	Milwaukee County T5N R21E Section 27 City of Franklin	NA-3	11	Milwaukee County	Small, but species-rich upland woods
Bike Trail Marsh	Milwaukee County T5N R21E Section 3 City of Franklin	NA-3	3	Milwaukee County	Good quality shallow marsh
Glenwood School Woods	Milwaukee County T6N R21E Section 14 City of Milwaukee	NA-3	7	Glenwood School	Good quality woodland in highly developed part of county
Granville Low Woods	Milwaukee County T8N R21E Section 6 City of Milwaukee	NA-3	50	Milwaukee Metropolitan Sewerage District	Good quality low woods
Grootemaat Woods	Milwaukee County T6N R21E Section 35 Village of Greendale	NA-3	20	City of Greenfield	Dry-mesic woods with ephemeral ponds
McGovern Park Woods	Milwaukee County T8N R21E Section 35 City of Milwaukee	NA-3	14	Milwaukee County	Remnant woodland within urban park
Mitchell's Woods	Milwaukee County T6N R21E Section 11 City of Milwaukee	NA-3	37	Milwaukee County	Mixed quality woods bordering Kinnickinnick River
Oak Creek Parkway Woods	Milwaukee County T5N R22E Sections 11, 12 City of Oak Creek	NA-3	24	Milwaukee County	Dry-mesic woods along Oak Creek
Root River Bike Trail Woods	Milwaukee County T5N R21E Section 15 City of Franklin	NA-3	108	Milwaukee County	Wet-mesic and dry-mesic woods along Root River
Root River Low and Upland Woods	Milwaukee County T5N R21E Section 3 City of Franklin	NA-3	76	Milwaukee County	Mostly wet-mesic and floodplain woods along Root River
Ryan Road Woods	Milwaukee County T5N R22E Section 29 City of Oak Creek	NA-3	42	Private	Dry-mesic woods
West Branch Root River Woods	Milwaukee County T6N R21E Section 7 City of West Allis	NA-3	12	City of West Allis	Small remnant of native forest in highly developed area

Table 1 (continued)

Site Name	Location	Proposed Classification Code	Size (acres)	Existing and Proposed Ownerships	Site Description
Abbott Woods and Ravine	Ozaukee County T10N R22E Sections 21, 28 Town of Grafton	NA-2	31	Private, protected through conservation easement with Ozaukee Washington Land Trust	Mesic woods and white cedar-covered ravines along Lake Michigan
Colonial Park Woods	Racine County T3N R23E Section 8 City of Racine	NA-2	94	Racine County and private	Complex of upland and lowland woods along Root River
Hoods Creek Woods	Racine County T3N R22E Section 3 Village of Mt. Pleasant	NA-3	72	Private and Village of Mt. Pleasant	Upland and lowland woods along Hoods Creek
Bluff Creek Prairie	Walworth County T4N R15E Section 23 Town of Whitewater	NA-2	21	Wisconsin Department of Natural Resources	Good quality wet-mesic prairie, including a number of rare species
CTH C Lowland	Walworth County T1N R15E Section 4 Town of Sharon	NA-3	60	Wisconsin Department of Natural Resources	Wetland complex in an agricultural landscape
East Troy Bog	Walworth County T4N R18E Sections 7, 18 Town of East Troy	NA-3	6	Private	Good quality leatherleaf bog
Jackson Creek Wetlands	Walworth County T2N R17E Section 7 City of Elkhorn	NA-3	22	Walworth County Land Trust	Wetland complex, including prairie fen, along Jackson Creek
Oak Hill Cemetery Woods	Walworth County T2N R17E Section 25 City of Lake Geneva and Town of Geneva	NA-3	138	Private	Good quality upland dry-mesic woods
Turtle Lake Fen	Walworth County T3N R15E Section 14 Town of Richmond	NA-3	21	Wisconsin Department of Natural Resources	Prairie fen on southwest side of Turtle Lake
Voskuil Dry Prairie	Walworth County T2N R15E Section 1 Town of Darien	NA-2	7	Town of Darien and private	Good quality dry prairie on long exposed ridge
Amy Bell Lake Bog	Washington County T9N R19E Section 25 Town of Richfield	NA-3	5	Private	Good quality floating bog mat
Kohlsville River Upland Woods and Wetlands	Washington County T11N R19E Section 7 Town of Barton	NA-3	100	Private	Complex of upland and lowland woods
Little Oconomowoc River Woods and Wetlands	Washington County T9N R18E Section 33 Town of Erin	NA-3	226	Town of Erin or Washington County and private	Dry-mesic woods and wetland complex
Pike Lake Wetlands—South	Washington County T10N R18E Sections 23, 26 Town of Hartford	NA-3	37	Wisconsin Department of Natural Resources	Wetland complex, including sedge meadow and shrub-carr
Regner Park Woods	Washington County T11N R19E Section 11 City of West Bend	NA-3	25	City of West Bend	Small, but good quality dry-mesic woods within urban park

Table 1 (continued)

Site Name	Location	Proposed Classification Code	Size (acres)	Existing and Proposed Ownerships	Site Description
Colgate Road Swamp and Woods	Waukesha County T8N R19E Section 2 Town of Lisbon	NA-3	170	Private	Mix of upland and lowland woods
Dousman Road Fen-Meadow	Waukesha County T7N R17E Section 33 Town of Summit	NA-3	3	Private	Sedge fen
Eagle Spring Lake Bog, Woods, and Prairie	Waukesha County T5N R17E Section 36 Town of Eagle T4N R17E Section 1 Town of Troy	NA-3	66	Wisconsin Department of Natural Resources	Leatherleaf bog, dry upland woods, and small prairie remnants
Golf Cliff Ridge and Woods	Waukesha County T7N R18E Section 23 Town of Delafield	NA-3	8	Private	Small woods contains limestone outcrops
Merton Millpond and Woods	Waukesha County T8N R18E Section 13 Town of Merton T8N R19E Section 18 Town of Lisbon	NA-3	66	Village of Merton, Waukesha County, and private	Woods and wetlands bordering millpond
Ottawa Lake Prairie	Waukesha County T6N R17E Section 34 Town of Ottawa	NA-3	12	Wisconsin Department of Natural Resources	Wet-mesic prairie, enhanced by prescribed burn management
Pebble Creek Woods—North	Waukesha County T6N R19E Section 22 Town of Waukesha	NA-3	9	Private	Small, but species-rich dry-mesic woods
Pebble Creek Woods—South	Waukesha County T6N R19E Section 22 Town of Waukesha	NA-3	15	Private	Small, but species-rich dry-mesic woods
Prairie Wind Farms Woods	Waukesha County T7N R18E Section 2 Town of Delafield	NA-3	22	Private	Moderate quality dry-mesic woods within residential development
Pretty Lake Tamarack Relict	Waukesha County T6N R17E Sections 21, 28 Town of Ottawa	NA-3	84	Wisconsin Department of Natural Resources and private	Tamarack relict, lowland hardwoods, and sedge fen
Reinke Sedge Fen	Waukesha County T5N R19E Section 26 Town of Vernon	NA-3	18	Private	Relatively diverse prairie and sedge fen complex on sloping hillside
Ryan Road Swamp	Waukesha County T5N R20E Section 24 City of Muskego	NA-3	45	Private	Lowland hardwood swamp with some northern elements
Vernon Marsh Low Woods	Waukesha County T5N R19E Section 5 Town of Vernon	NA-3	24	Wisconsin Department of Natural Resources	Species-rich low woods within the Vernon Marsh

Source: SEWRPC

- A total of 104 Critical Species Habitat sites showed a net change in their areal extent. Sixty-three of these showed net increases, while 41 decreased in mapped area. The largest increase—588 acres—occurred in the Vernon Marsh with the inclusion of additional surrounding wetlands.

Table 2

NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS LISTED IN SEWRPC PLANNING REPORT NUMBER 42 THAT HAVE BEEN UPGRADED IN CLASSIFICATION

Area Name	Location	Former Classification	Revised Classification	Reasons for Upgrading
Root River Bike Trail Woods	Milwaukee County T5N R21E Section 15 City of Franklin	Critical Species Habitat	NA-3	Additional surveys revealed greater species diversity and higher ecological quality
Huiras Lake Woods and Bog	Ozaukee County T12N R21E Sections 8, 9, 10, 16 Town of Fredonia	NA-2	NA-1	Additional, more extensive field surveys added to knowledge of this large area, revealing high ecological quality
Fish and Wildlife Service Area	Ozaukee County T10N R22E Sections 9, 10 Town of Grafton	Critical Species Habitat	NA-3	Improved wildlife habitat
Sandy Knoll Swamp	Washington County T11N R20E Sections 4, 5, 12 Town of Trenton T12N R20E Section 33 Town of Farmington	NA-3	NA-2	Additional, more extensive field surveys added to knowledge of this large area, revealing high ecological quality
Jackson Swamp State Natural Area	Washington County T10N R20E Sections 1, 2, 8, 9, 10, 14, 15, 16 Town of Jackson	NA-2	NA-1	Additional, more extensive field surveys added to knowledge of this large area, revealing high ecological quality
Pike Lake Woods	Washington County T10N R18E Sections 23, 24 Town of Hartford	NA-3	NA-2	Additional field surveys by Wisconsin Department of Natural Resources and SEWRPC staff biologists
Sawyer Road Sedge Meadow	Waukesha County T7N R17E Section 36 Town of Summit	NA-3	NA-2	Additional surveys revealed greater species diversity and higher ecological quality
Stute Springs (formerly "Mounded Fen")	Waukesha County T5N R17E Section 19 Town of Eagle	Critical Species Habitat	NA-3	Additional surveys revealed greater species diversity and higher ecological quality
Old World Wisconsin Marsh	Waukesha County T5N R17E Section 21 Town of Eagle	Critical Species Habitat	NA-3	Additional surveys revealed greater species diversity and higher ecological quality

Source: SEWRPC.

CHANGES IN STATUS OF ENDANGERED, THREATENED, AND SPECIAL CONCERN PLANT AND ANIMAL SPECIES IN THE REGION

Vertebrate animal (mammal, bird, reptile, amphibian, and fish) and vascular plant species found in Southeastern Wisconsin that were officially listed by the Wisconsin Department of Natural Resources, Bureau of Endangered Resources, on the "Wisconsin Natural Heritage Working List," were identified in SEWRPC Planning Report Number 42. Specifically, that list named 20 plant and 19 vertebrate animal species known to occur in the Region as endangered; 25 plant and 17 animal species of the Region as threatened; and 69 plant and 61 animal species of the Region as special concern.

Since preparation of SEWRPC Planning Report No. 42, the Bureau of Endangered Resources has updated its list periodically, adding or removing species and changing the status of other species as more knowledge is obtained about native species, as species become more or less rare, and as the degree of endangerment increases or decreases. Currently, 18 vertebrate animal species of the Region are listed as endangered; 20 are listed as threatened; and 59 are listed as special concern. Table 3 lists the revisions that have been made in the status of the Region's critical vertebrate animal species.

Table 3

RECENT CHANGES IN THE STATUS OF STATE OF WISCONSIN-DESIGNATED RARE ANIMAL SPECIES
AS LISTED IN TABLES 42, 43, 44, 45, AND 46 OF SEWRPC PLANNING REPORT NUMBER 42
(latest State revision: January 1, 2007)

Animal Group	Scientific Name	Common Name	Status in PR-42	Current Status
Mammals	<i>Clethrionomys gapperi</i>	Red-backed vole	Special Concern	Not listed
	<i>Lynx rufus</i>	Bobcat	Special Concern	Not listed
	<i>Sorex thompsonii</i>	Thompson's pigmy shrew	Special Concern	Not listed
	<i>Synaptomys cooperi</i>	Southern bog lemming	Special Concern	Not listed
Birds	<i>Thryomanes bewickii</i>	Bewick's wren	Endangered	Not listed
	<i>Haliaeetus leucocephalus</i>	Bald eagle	Threatened	Special Concern
	<i>Ammodramus henslowii</i>	Henslow's sparrow	Special Concern	Threatened
	<i>Carduelis pinus</i>	Pine siskin	Special Concern	Not listed
	<i>Coccothraustes vespertinus</i>	Evening grosbeak	Special Concern	Not listed
	<i>Coturnicops noveboracensis</i>	Yellow rail	Special Concern	Threatened
	<i>Dendroica fusca</i>	Blackburnian warbler	Special Concern	Not listed
	<i>Icterus spurius</i>	Orchard oriole	Special Concern	Not listed
	<i>Mergus merganser</i>	Common merganser	Special Concern	Not listed
	<i>Mergus serrator</i>	Red-breasted merganser	Special Concern	Not listed
	<i>Vermivora peregrina</i>	Tennessee warbler	Special Concern	Not listed
	<i>Wilsonia canadensis</i>	Canada warbler	Uncommon	Special Concern
	<i>Vermivora pinus</i>	Blue-winger warbler	Uncommon	Special Concern
	<i>Vermivora ruficapilla</i>	Nashville warbler	Uncommon	Special Concern
	<i>Hylocichla mustelina</i>	Wood thrush	Uncommon	Special Concern
	<i>Loxia curvirostra</i>	Red crossbill	Uncommon	Special Concern
	<i>Vireo griseus</i>	White-eyed vireo	Uncommon	Special Concern
	<i>Ardea herodias</i>	Great blue heron	Uncommon	Special Concern
	<i>Caprimulgus vociferus</i>	Whip-poor-will	Uncommon	Special Concern
	<i>Empidonax minimus</i>	Least flycatcher	Uncommon	Special Concern
	<i>Empidonax traillii</i>	Willow flycatcher	Uncommon	Special Concern
	<i>Catharus fuscescens</i>	Veery	Uncommon	Special Concern
	<i>Scolopax minor</i>	American woodcock	Uncommon	Special Concern
<i>Vermivora chrysoptera</i>	Golden-winged warbler	Uncommon	Special Concern	
Herptiles	<i>Hemidactylium scutatum</i>	Four-toed salamander	Uncommon	Special Concern
	<i>Thamnophis butleri</i>	Butler's garter snake	Uncommon	Threatened
Fish	<i>Coregonus artedii</i>	Lake herring	Special Concern	Not listed

Source: Wisconsin Natural Heritage Inventory Working List, Wisconsin Department of Natural Resources, 2007, and SEWRPC.

Critical plant species determined to be, at least historically, part of the regional flora now include 23 endangered plant species, 33 threatened plant species, and 97 special concern plant species. These changes in totals are due to a combination of factors, including changes in species classification by the Bureau of Endangered Resources, newly discovered regional species, and the most recent revisions in the taxonomic nomenclature classifying species.

Recent and reliable records, however, only include 112 (73 percent) of these original plant species as having a good probability of remaining in the Region today. Accordingly, it is estimated that 41, or 27 percent, of these critical plant species have been extirpated from the Region. Of the 112 listed plant species for which there are current records, 16, or 14 percent, are classified as endangered (see Table 4); 22, or 20 percent, are classified as threatened (see Table 5); and 74, or 66 percent, are classified as special concern (see Table 6).

In addition to the Region's endangered, threatened, and special concern plant species, a number of species may have relatively extensive and apparently stable statewide populations, but may still be of high concern on a regional level. New information concerning uncommon plant species abundances and distribution in the Region has led to a reconsideration of their status. A total of 298 plant species considered to be regionally uncommon were listed in SEWRPC Planning Report No. 42. Additional field surveys revealed that some species originally listed as uncommon were more abundant and/or widespread than suspected, while others, not listed, were less common than first thought. Accordingly, the list of regionally uncommon plant species was adjusted to reflect these new data. These plant species have been determined to exist at such low densities at so few locations in the Region, or whose habitat is threatened, as to be vulnerable to local extirpation. All populations are therefore noteworthy. It should be noted that although these regionally uncommon plant species are not considered critical species for purposes of this report, they occur in such low numbers or in such restricted locations in the Region that it is recommended that their status be monitored and their locations tracked.

Table 4

ENDANGERED PLANT SPECIES OF THE SOUTHEASTERN WISCONSIN REGION: 2007
(latest State revision: January 1, 2007)

Species Name	Common Name	Listed in PR-42	Notes
<i>Agalinis skinneriana</i>	Pale foxglove	No	Very rare
<i>Armoracia lacustris</i>	Lake cress	No	Possibly extirpated from Region
<i>Asclepias purpurascens</i>	Purple milkweed	Yes	--
<i>Camassia scilloides</i>	Wild-hyacinth	No	One known population in Region
<i>Carex crus-corvi</i>	Crow-spur sedge	Yes	Very few locations
<i>Carex lupuliformis</i>	Hoplike sedge	Yes	Identification difficult
<i>Collinsonia canadensis</i>	Canada horse-balm	Yes	Probably extirpated from Region
<i>Conioselinum chinense</i>	Hemlock-parsley	Yes	Probably extirpated from Region
<i>Eleocharis quadrangulata</i>	Square-stem spike-rush	Yes	Possibly extirpated from Region
<i>Eriogenia bulbosa</i>	Harbinger-of-spring	Yes	Probably extirpated from Region
<i>Fimbristylis puberula</i>	Chestnut sedge	Yes	One known population in Region
<i>Lespedeza leptostachya</i>	Prairie lespedeza	Yes	Probably extirpated from Region
<i>Muhlenbergia richardsonis</i>	Mat muhly	No	One known population in Region
<i>Phlox glaberrima</i>	Smooth phlox	Yes	--
<i>Plantago cordata</i>	Heart-leaved plantain	Yes	Two known native populations
<i>Platanthera leucophaea</i>	Prairie white-fringed orchid	Yes	All individuals should be protected
<i>Polygala incarnata</i>	Pink milkwort	No	--
<i>Prenanthes aspera</i>	Rough rattlesnake-root	Yes	Probably extirpated from Region
<i>Pterospora andromeda</i>	Giant pinedrops	Yes	One known population in Region
<i>Ranunculus cymbalaria</i>	Alkali buttercup	Yes	One known population in Region
<i>Ruellia humilis</i>	Wild petunia	Yes	One known population in Region
<i>Solidago caesia</i>	Bluestem goldenrod	Yes	May be locally common
<i>Trisetum melicoides</i>	False melic	Yes	Revised from Special Concern

Source: Wisconsin Department of Natural Resources and SEWRPC.

CHANGES TO NATURAL AREA-, CRITICAL SPECIES-, AND CRITICAL SPECIES HABITAT-RELATED LAWS AND POLICIES

Protections provided natural areas and critical species habitats under Federal policies and regulations are limited. The major remedies available under Federal law generally relate to the taking, possession, transport, and sale of federally designated endangered and threatened animal and plant species and migratory game and nongame birds. No Federal regulations have been promulgated per se to protect natural areas and critical species habitats identified by Federal agencies or by States. However, regulations have been promulgated which require consideration of endangered and threatened animal and plant species, and certain high quality habitats, in the issuance of Federal permits and other approvals. Further, programs which grant funds, usually to State agencies, have been enacted. These funds may be used to acquire and manage natural areas and critical species habitats in Southeastern Wisconsin.

Protection of natural areas and critical species habitats under State policies and regulations is also limited. The major remedies available under State law, as with Federal law, generally relate to the taking, possession, transport, and sale of Federally designated and State-designated endangered and threatened plant species, and game and nongame animal species. However, even endangered or threatened plant species do not receive the same level of protective consideration that extends to native animal species, the latter being considered property of the State. Further, no State regulations have been promulgated to directly protect natural areas and critical species habitats, unless they are located within designated State natural areas owned or managed, or both, by the State. Designated State natural areas on privately held lands and non-State owned public lands are managed only under a mutual-agreement (Articles of Dedication) policy. Similarly, the State has promulgated rules for the establishment of conservation easements that may be applied to privately held lands. When combined with sound conservation management plans, such easements may be an effective method to ensure the long term protection of natural areas, critical species habitats, and significant geological and archaeological sites.

Table 5

THREATENED PLANT SPECIES OF THE SOUTHEASTERN WISCONSIN REGION: 2007
(latest State revision: January 1, 2007)

Species Name	Common Name	Listed in PR-42	Notes ^a
<i>Agalinis gattingeri</i>	Round-stem foxglove	Yes	Possibly extirpated from Region
<i>Agastache nepetoides</i>	Yellow giant hyssop	Yes	--
<i>Amerorchis rotundifolia</i>	Round-leaved orchid	Yes	Probably extirpated from Region
<i>Asclepias lanuginosa</i>	Woolly milkweed	Yes	--
<i>Asclepias ovalifolia</i>	Dwarf milkweed	Yes	Listed in Planning Report No. 42 as Uncommon; changed by Wisconsin Department of Natural Resources
<i>Asclepias sullivantii</i>	Sullivant's milkweed	Yes	Grows in mesic prairies
<i>Aster furcatus</i>	Forked aster	Yes	--
<i>Besseyia bullii</i>	Kittentails	Yes	A species of oak savannas
<i>Cacalia plantaginea</i>	Prairie Indian plantain	Yes	= <i>C. tuberosa</i> and <i>Arnoglossum plantagineum</i>
<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand reed grass	Yes	Lake Michigan sand dunes and beaches
<i>Carex formosa</i>	Handsome sedge	Yes	Changed from Special Concern by Wisconsin Department of Natural Resources
<i>Carex garberi</i>	Elk sedge	Yes	Possibly extirpated from Region
<i>Cirsium hillii</i>	Hill's thistle	Yes	Probably extirpated from Region
<i>Cypripedium arietinum</i>	Ram's-head lady's-slipper	Yes	Extremely rare
<i>Cypripedium candidum</i>	Small white lady's-slipper	Yes	A species of wet-mesic prairies and fens
<i>Drosera linearis</i>	Linear-leaf sundew	Yes	One population in Region
<i>Echinacea pallida</i>	Pale purple coneflower	No	Probably extirpated from Region
<i>Eleocharis rostellata</i>	Beaked spike-rush	Yes	In calcareous fens
<i>Elytrigia dasystachya</i> subsp. <i>psammophila</i>	Thickspike wheatgrass	Yes	= <i>Elymus lanceolatus</i>
<i>Fraxinus quadrangulata</i>	Blue ash	Yes	Very few sites
<i>Gentiana alba</i>	Cream gentian	Yes	--
<i>Hypericum sphaerocarpum</i>	Round-seeded St. John's-wort	No	Very rare
<i>Iris lacustris</i>	Dwarf lake iris	Yes	Extirpated from Region
<i>Orobanche fasciculata</i>	Clustered broom-rape	Yes	Possibly extirpated from Region
<i>Parthenium integrifolium</i>	Wild quinine	Yes	Mesic prairies
<i>Platanthera flava</i>	Tuberclad orchid	Yes	Probably extirpated from Region
<i>Poa paludigena</i>	Patterson's bluegrass	No	Possibly extirpated from Region
<i>Polytaenia nuttallii</i>	Prairie-parsley	Yes	Possibly extirpated from Region
<i>Ribes oxycanthoides</i>	Canadian gooseberry	No	--
<i>Scirpus cespitosus</i>	Tussock bulrush	Yes	Changed from Endangered by Wisconsin Department of Natural Resources
<i>Tofieldia glutinosa</i>	False asphodel	Yes	--
<i>Trillium nivale</i>	Snow trillium	Yes	A very early blooming species
<i>Valeriana uliginosa</i>	Marsh valerian	No	Possibly extirpated from Region

^aAn equal sign indicates that the species is known by other names.

Source: Wisconsin Department of Natural Resources and SEWRPC.

The State of Wisconsin has created some programs, however, which both directly and indirectly affect the protection of natural areas and critical species habitats if they are located in wetlands or are located in sanitary sewer service areas designated under the Clean Water Act. The presence of State-designated or Federally designated rare, threatened, or endangered species and their critical habitats, as well as the presence of high-quality natural areas within the State's wetlands and in primary environmental corridors, does have an effect on the issuance of necessary permits, water quality certifications, and approvals for activities not consistent with the protection of these species and areas. In addition, the State of Wisconsin has enacted programs under which funds may be made available to the Department of Natural Resources, county and local units of government, and to nonprofit conservation organizations to locate, evaluate, acquire, protect, and manage important natural areas and critical species habitats in Southeastern Wisconsin.

Table 6

SPECIAL CONCERN PLANT SPECIES OF THE SOUTHEASTERN WISCONSIN REGION: 2007
(latest State revision: January 1, 2007)

Species Name	Common Name	Listed in PR-42	Notes ^a
<i>Adlumia fungosa</i>	Climbing fumitory	No	Recent addition to historic regional flora; possibly extirpated from Region
<i>Agrimonia parviflora</i>	Swamp agrimony	Yes	--
<i>Aplectrum hyemale</i>	Adam-and-Eve	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Arabis shortii</i>	Short's rock-cress	No	Possibly extirpated from Region
<i>Arethusa bulbosa</i>	Swamp-pink	Yes	--
<i>Artemisia dracunculus</i>	Dragon sage-wort	Yes	Possibly extirpated from Region
<i>Artemisia frigida</i>	Fringed sage-wort	No	Possibly extirpated from Region
<i>Athyrium pycocarpon</i>	Glade fern	No	= <i>Diplazium pycocarpon</i> ; possibly extirpated from Region
<i>Cacalia muhlenbergii</i>	Great Indian plantain	Yes	= <i>Arnoglossum reniforme</i>
<i>Cakile edentula</i>	Sea rocket	Yes	Along Lake Michigan beaches
<i>Calamagrostis stricta</i>	Slim-stem reed grass	No	--
<i>Cardamine pratensis</i>	Cuckoo flower	Yes	--
<i>Carex crawei</i>	Crawe sedge	Yes	--
<i>Cares gracilescens</i>	Slender wood sedge	Yes	--
<i>Carex gynocrates</i>	Northern bog sedge	No	--
<i>Carex livida</i>	Livid sedge	No	--
<i>Carex pallescens</i>	Pale sedge	No	--
<i>Carex richardsonii</i>	Richardson's sedge	Yes	Possibly extirpated from Region
<i>Carex suberecta</i>	Prairie straw sedge	Yes	Possibly extirpated from Region
<i>Carex swanii</i>	Swan's sedge	Yes	Very few populations in Region
<i>Carex sychnocephala</i>	Many-headed sedge	Yes	Very few populations in Region
<i>Carex tenuiflora</i>	Sparse-flowered sedge	Yes	--
<i>Carex torreyi</i>	Torrey's sedge	No	Very few populations in Region
<i>Ceratophyllum echinatum</i>	Spiny hornwort	Yes	Listed as Uncommon in PR-42; added Special Concern by Wisconsin Department of Natural Resources
<i>Cirsium flodmanii</i>	Flodman's thistle	No	Probably extirpated from Region
<i>Corallorhiza odontorhiza</i>	Late coralroot orchid	Yes	An inconspicuous orchid species
<i>Coreopsis lanceolata</i>	Sand coreopsis	Yes	Possibly naturalized
<i>Cypripedium parviflorum</i>	Small yellow lady's-slipper	Yes	--
<i>Cypripedium pubescens</i>	Large yellow lady's-slipper	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Cypripedium reginae</i>	Showy lady's-slipper	Yes	--
<i>Deschampsia caespitosa</i>	Tufted hair grass	Yes	--
<i>Dryopteris clintoniana</i>	Clinton's wood fern	Yes	--
<i>Eleocharis compressa</i>	Flat-stemmed spike-rush	No	--
<i>Eleocharis olivacea</i>	Bright green spike-rush	Yes	--
<i>Eleocharis pauciflora</i>	Few-flowered spike-rush	No	= <i>E. quinqueflora</i>
<i>Epilobium strictum</i>	Downy willow-herb	Yes	--
<i>Equisetum palustre</i>	Marsh horsetail	No	--
<i>Equisetum variegatum</i>	Variegated horsetail	Yes	--
<i>Eupatorium sessilifolium</i>	Woodland boneset	Yes	--
<i>Euphorbia polygonifolia</i>	Seaside spurge	Yes	--
<i>Festuca paradoxa</i>	Cluster fescue	No	Possibly extirpated from Region
<i>Gentianopsis procera</i>	Lesser fringed gentian	Yes	= <i>Gentiana procera</i>
<i>Glycyrrhiza lepidota</i>	Wild licorice	No	Possibly extirpated from Region
<i>Gymnocladus dioica</i>	Kentucky coffeetree	Yes	--
<i>Hasteola suaveolens</i>	Sweet Indian plantain	Yes	= <i>Cacalia suaveolens</i> ; listed as Uncommon in PR-42; added Special Concern by Wisconsin Department of Natural Resources
<i>Hibiscus palustris</i>	Rose mallow	No	= <i>H. moscheutos</i> ; nativity questionable
<i>Houstonia caerulea</i>	Bluets	Yes	= <i>Hedyotis caerulea</i>
<i>Hydrastis canadensis</i>	Goldenseal	Yes	--
<i>Hydrophyllum appendiculatum</i>	Great waterleaf	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Jeffersonia diphylla</i>	Twingleaf	Yes	--
<i>Juglans cinerea</i>	Butternut	No	Added Special Concern by Wisconsin Department of Natural Resources

Table 6 (continued)

Species Name	Common Name	Listed in PR-42	Notes ^a
<i>Juncus marginatus</i>	Grass-leaved rush	No	Recent addition to regional flora
<i>Liatris spicata</i>	Marsh blazing-star	Yes	--
<i>Lithospermum latifolium</i>	American gromwell	Yes	--
<i>Malaxis brachypoda</i>	White adders-mouth	Yes	= <i>M. monophyllos</i> var. <i>brachypoda</i> ; possibly extirpated from Region
<i>Medeola virginiana</i>	Indian cucumber-root	Yes	Probably extirpated from Region
<i>Myriophyllum farwellii</i>	Farwell's water-milfoil	No	Probably extirpated from Region
<i>Nyssa sylvatica</i>	Black gum	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Oenothera serrulata</i>	Yellow evening-primrose	Yes	= <i>Calylophus seerulatus</i>
<i>Ophioglossum pusillum</i>	Northern adder's-tongue	Yes	Possibly extirpated from Region
<i>Opuntia humifusa</i>	Eastern prickly-pear cactus	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Orobanche uniflora</i>	Cancer-root	Yes	Possibly extirpated from Region
<i>Panax quinquefolius</i>	Wild ginseng	Yes	--
<i>Panicum wilcoxianum</i>	Wilcox's panic grass	Yes	Possibly extirpated from Region
<i>Penstemon hirsutus</i>	Hairy beard-tongue	Yes	--
<i>Penstemon pallidus</i>	Pale beard-tongue	Yes	--
<i>Phegopteris hexagonoptera</i>	Broad beech fern	Yes	--
<i>Phlox bifida</i>	Sand phlox	Yes	Possibly extirpated from Region
<i>Platanthera dilatata</i>	White bog orchid	Yes	--
<i>Platanthera hookeri</i>	Hooker's orchid	Yes	Possibly extirpated from Region
<i>Platanthera orbiculata</i>	Large round-leaved orchid	Yes	Probably extirpated from Region
<i>Platanus occidentalis</i>	Sycamore	Yes	Few native occurrences
<i>Polygala cruciata</i>	Cross milkwort	Yes	--
<i>Polystichum acrostichoides</i>	Christmas fern	Yes	--
<i>Ptelea trifoliata</i>	Hoptree	Yes	--
<i>Quercus muehlenbergii</i>	Chinkapin oak	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Satureja arkansana</i>	Limestone calamint	Yes	= <i>Calamintha arkansana</i>
<i>Scirpus heterochaetus</i>	Slender bulrush	Yes	= <i>Schoenoplectus heterochaetus</i> ; listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources; possibly extirpated from Region
<i>Scirpus hudsonianus</i>	Alpine cotton-grass	No	= <i>Trichophorum alpinum</i> ; <i>Eriophorum alpinum</i>
<i>Scleria triglomerata</i>	Tall nut-rush	Yes	--
<i>Scleria verticillata</i>	Low nut-rush	Yes	--
<i>Scutellaria ovata</i>	Heart-leaved skullcap	Yes	--
<i>Senecio plattensis</i>	Prairie ragwort	Yes	Listed as Uncommon in PR-42; added Special Concern by Wisconsin Department of Natural Resources; Possibly extirpated from Region
<i>Sisyrinchium angustifolium</i>	Stout blue-eyed-grass	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Solidago ohioensis</i>	Ohio goldenrod	Yes	--
<i>Talinum rugospermum</i>	Fame-flower	Yes	Probably extirpated from Region
<i>Taxus canadensis</i>	Canada yew	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Thalictrum revolutum</i>	Marsh meadow-rue	Yes	--
<i>Thaspium trifoliatum</i>	Purple meadow-parsnip	Yes	Possibly extirpated from Region
<i>Tomanthera auriculata</i>	Eared false foxglove	Yes	Recently re-discovered in State
<i>Triglochin matitima</i>	Bog arrow-grass	Yes	--
<i>Triglochin palustris</i>	Marsh arrow-grass	Yes	--
<i>Trillium recurvatum</i>	Red trillium	Yes	Locally common
<i>Utricularia purpurea</i>	Spotted bladderwort	No	--
<i>Verbena simplex</i>	Narrow-leaved vervain	Yes	Listed as Uncommon in Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources
<i>Viburnum prunifolium</i>	Blackhaw	Yes	In dry-mesic woods
<i>Viola rostrata</i>	Long-spurred violet	Yes	--

^aAn equal sign indicates that the species is known by other names.

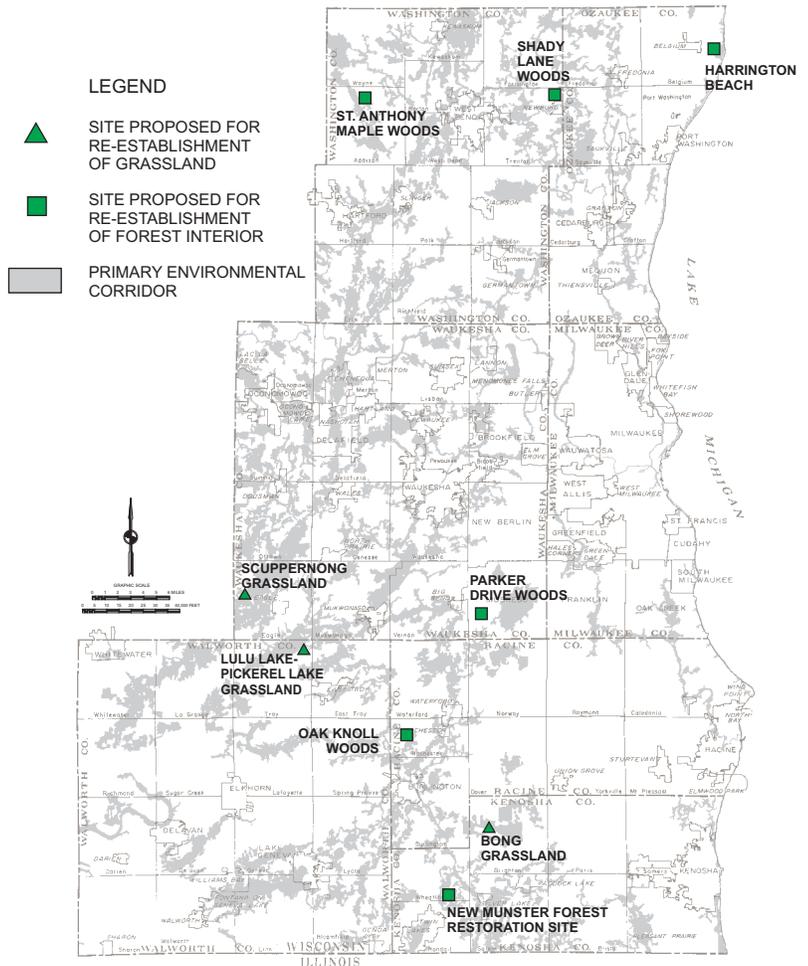
Source: Wisconsin Department of Natural Resources and SEWRPC.

RECOMMENDED CHANGES TO THE NATURAL AREAS AND CRITICAL SPECIES HABITAT PROTECTION AND MANAGEMENT PLAN

The following is a summary of the recommended changes to the natural areas and critical species habitat protection and management plan under the plan amendment:

- Changes to the Natural Area site recommendations:** The original plan recommended that 427 Natural Area sites, totaling approximately 88 square miles be placed in protective public or private ownership. The proposed plan update recommends that 472 of the 494 identified Natural Area sites, or 96 percent, totaling 98.3 square miles, would now be placed in protective public or private ownership. That total includes all 44 of the newly identified natural area sites. A summary of the recommended protective ownership of the newly identified Natural Area Sites that are not currently under protective ownership is shown in Table 7.
- Changes to the critical species habitat recommendations:** The original plan recommended that 110 Critical Species Habitat sites, totaling approximately 21 square miles, be placed in protective public or private ownership. The proposed plan update recommends that 190 of the 256 identified Critical Species Habitat Area sites, or 74 percent, totaling 19.2 square miles, would now be placed in protective public or private ownership. That includes 133 of the newly identified critical species habitat sites, that is, those located within Commission-delineated primary environmental corridors, whose total area is 3,808 acres. A summary of the recommended protective ownership of the newly identified Critical Species Habitat Area Sites that are not currently under protective ownership is shown in Table 7.

Map 2
LOCATION OF FINAL RECOMMENDED SITES TO REESTABLISH LARGE TRACTS OF GRASSLANDS AND FOREST INTERIORS IN THE SOUTHEASTERN WISCONSIN REGION



Source: SEWRPC.

Table 7
SUMMARY OF RECOMMENDED PROTECTIVE OWNERSHIP OF NEWLY IDENTIFIED NATURAL AREA AND CRITICAL SPECIES HABITAT SITES THAT ARE NOT CURRENTLY PROTECTED

Proposed Acquisition Agency	Site Category			Total
	NA-2	NA-3	CSH	
Wisconsin Department of Natural Resources	0	1	2	3
Local Unit of Government	1	4	4	9
Lake Management District	0	1	0	1
School District	0	0	2	2
WE Energies	0	0	5	5
Private Conservancy Organization	1	13	34	48
To be properly managed without protective ownership	0	0	32	32
Total	2	19	79^a	100

^aThis total does not include the 54 of the 133 newly identified Critical Species Habitat sites that are currently completely or partially under protective ownership.

Source: SEWRPC.

- **Changes to grassland bird nesting habitat recommendation:** The original plan recommended that a total of 21.3 square miles of grassland be established and managed to provide suitable nesting habitat for grassland nesting birds. The proposed plan update recommends that an additional 7.8 square miles be added to the area of grassland bird nesting habitat at the Lulu Lake site (see Map 2).

- **Changes to woodland (forest interior bird habitat) recommendation:** No changes are recommended to the original woodland forest interior bird habitat area.

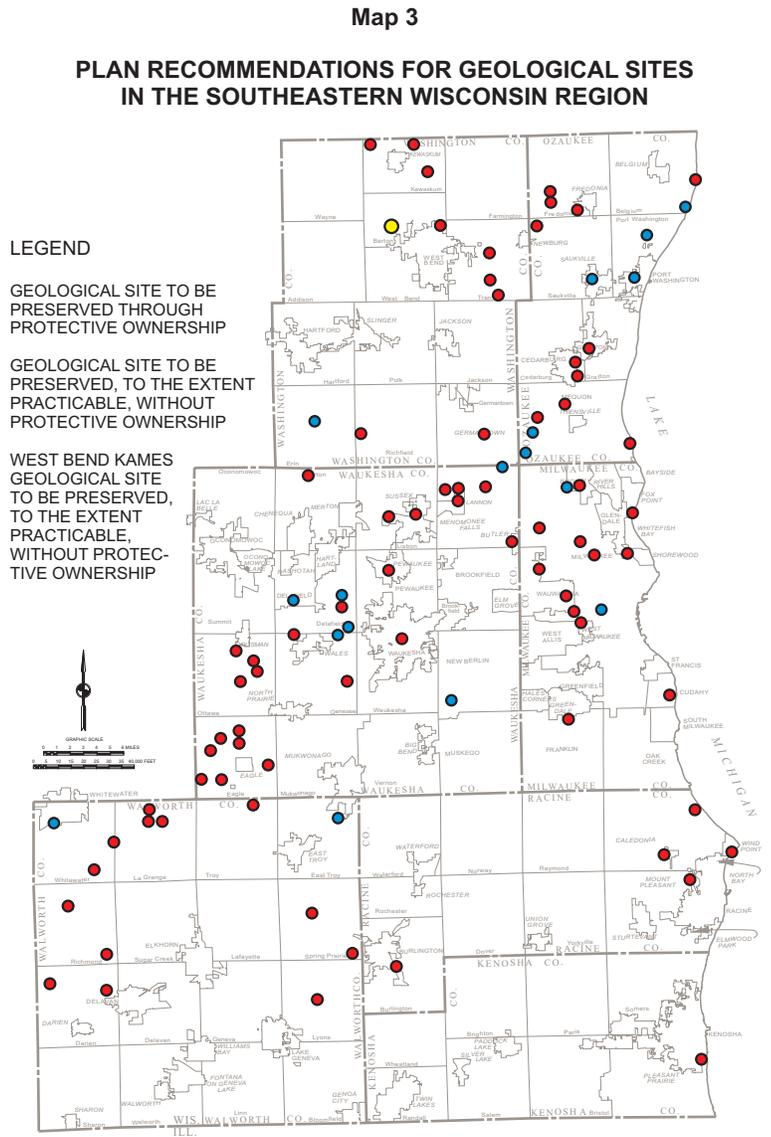
- **Changes to the geological area recommendations:** The original plan recommended that 71 of the 86 identified geological sites, totaling 35.6 square miles, be placed in protective public or private ownership. The proposed plan update recommends that the single newly identified geological area—the West Bend Kames—be protected under a scenic easement held by an appropriate private conservation organization, such as the Ozaukee Washington Land Trust (see Map 3).

- **Changes to the Archaeological site recommendations:** There are no changes recommended to the original archaeological site recommendations.

- **Recommended 2005 ADID wetland updates:** Under the Section 404(b) (1) Guidelines of the Clean Water Act, the U.S. Department of the Army Corps of Engineers and U.S. Environmental Protection Agency, working in coordination with other Federal agencies and the States, may identify certain wetlands and other waters that are generally unsuitable for the discharge of dredge and fill materials. Under these guidelines the Federal agencies have developed the Advanced Identification of Disposal Areas (ADID) in wetlands program (40 CFR 230.80). This program is an advisory procedure intended to add predictability to the Section 404 wetland permitting process and better account for the impacts of wetland losses from multiple projects within a geographic area. In 1985, ADID wetlands were identified and designated by the Corps and the U.S. Environmental Protection Agency, in coordination with the U.S. Fish and Wildlife Service, Wisconsin Department of Natural Resources, and the Commission for the Southeastern Wisconsin Region. The Southeastern Wisconsin ADID waters “include lakes, streams, and wetlands” located within the Commission delineated primary environmental corridors as they were shown on the Commission's 1980 Regional Plan maps.

Proposals to discharge any dredge or fill materials into wetlands and other waters of the United States require adherence to the Section 404(b) (1) Guidelines of the Act. Under these Guidelines, the discharge of any dredge or fill materials into designated natural areas, critical species habitat areas, and aquatic habitats identified in the plan would be subject to the conditions, set forth in Section 40 CFR Part 230.10(b). Accordingly, projects proposed in ADID waters would not be likely to receive a section 404 permit under these guidelines.

The updated plan, utilizing the 2005 Wisconsin Wetland Inventory as a base, recommends that the Region's ADID wetlands be updated to include those wetlands and other surface waters located in the 2005 primary environmental



corridor. Further, wetlands located in those Natural Areas identified in this plan that are located outside the primary environmental corridor are also recommended to be designated as ADID wetlands. The proposed updated ADID wetlands and other surface waters are shown by County on Map 4.

- **Aquatic Habitat Survey:** Finally, the plan recommends that a separate survey designed to update the aquatic natural area habitats be conducted under the direction of a technical advisory committee consisting of experts in the area of aquatic resources.

PLAN COSTS

The total cost of land acquisition recommended under the plan is estimated at \$589.7 million. These costs would be distributed as follows: State government--\$267.7 million, or 45 percent; county governments--\$96.5 million, or 16 percent; local governments--\$35.6 million, or 6 percent; and private conservancy organizations--\$189.9 million, or 32 percent. Of the \$589.7 million in plan implementation costs, about \$482.1 million, or 82 percent, would be associated with recommendations that have been made in prior State, regional, county, and local plans, and do not, therefore, represent proposed new expenditures. If the recommended plan were to be implemented over a 20-year period, the average annual cost, expressed in constant 2008 dollars, would approximate \$29.5 million, or \$14.75 per capita.

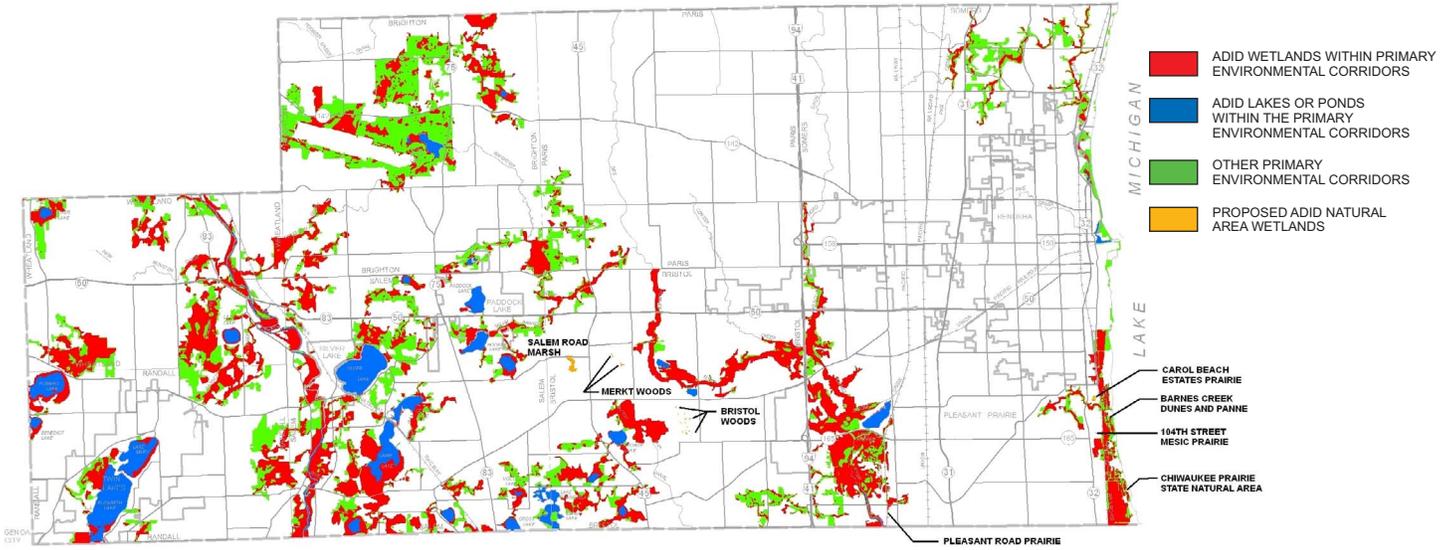
TECHNICAL ADVISORY COMMITTEE FOR THE PROTECTION AND MANAGEMENT OF NATURAL AREAS IN SOUTHEASTERN WISCONSIN

Dr. Susan E. Lewis.....	Professor of Biology, Carroll College; Director, Greene Field Station; Member, State of Wisconsin Natural Areas Preservation Council
Chairman	
Dr. Donald M. Reed.....	Chief Biologist, Southeastern Wisconsin Regional Planning Commission
Secretary	
Fay U. Amerson	Urban Conservation Specialist, Walworth County
Dr. Philip J. Arnholt.....	Professor of Science, Biology Department, Concordia University
Susan Black	Parks Director, Milwaukee County Department of Parks, Recreation and Culture
Dr. Owen Boyle.....	Regional Ecologist, Wisconsin Department of Natural Resources
Gerald H. Emmerich, Jr.....	Member, Board of Directors, Land Trust of Walworth County
Shawn Graff	Executive Director, The Ozaukee Washington Land Trust
Duane Grimm.....	Waukesha County Park System Manager
Andrew A. Holschbach.....	Land Conservation Director, Ozaukee County
Signe L. Holtz.....	Director, Bureau of Endangered Resources, Wisconsin Department of Natural Resources
B. Martinus Johnson	Wildlife Manager, Wisconsin Department of Natural Resources
Marlin P. Johnson	Associate Professor Emeritus, Field Station Manager, Department of Biological Sciences, University of Wisconsin Waukesha Center; Vice President, Waukesha County Land Conservancy
Mary J. Lichter.....	Parks Director, Kenosha County Parks
James P. Morrissey	Land/Facilities Supervisor, Wisconsin Department of Natural Resources
Paul E. Mueller.....	Administrator, Washington County Land Use and Parks Department
Dr. Patricia Nagai	Horticulture Educator, UW Extension Service, Racine County
Kevin L. Shafer.....	Executive Director, Milwaukee Metropolitan Sewerage District
Dr. Stephen L. Solheim.....	Associate Professor, Department of Biological Sciences, University of Wisconsin Whitewater
Scott Thompson.....	Director of Freshwater Conservation, Wisconsin Chapter, The Nature Conservancy
Marc White.....	Director of Research, Stewardship, and Adult Education, Riveredge Nature Center
Dr. Joy J. Wolf	Associate Professor, Department of Geography, University of Wisconsin-Parkside

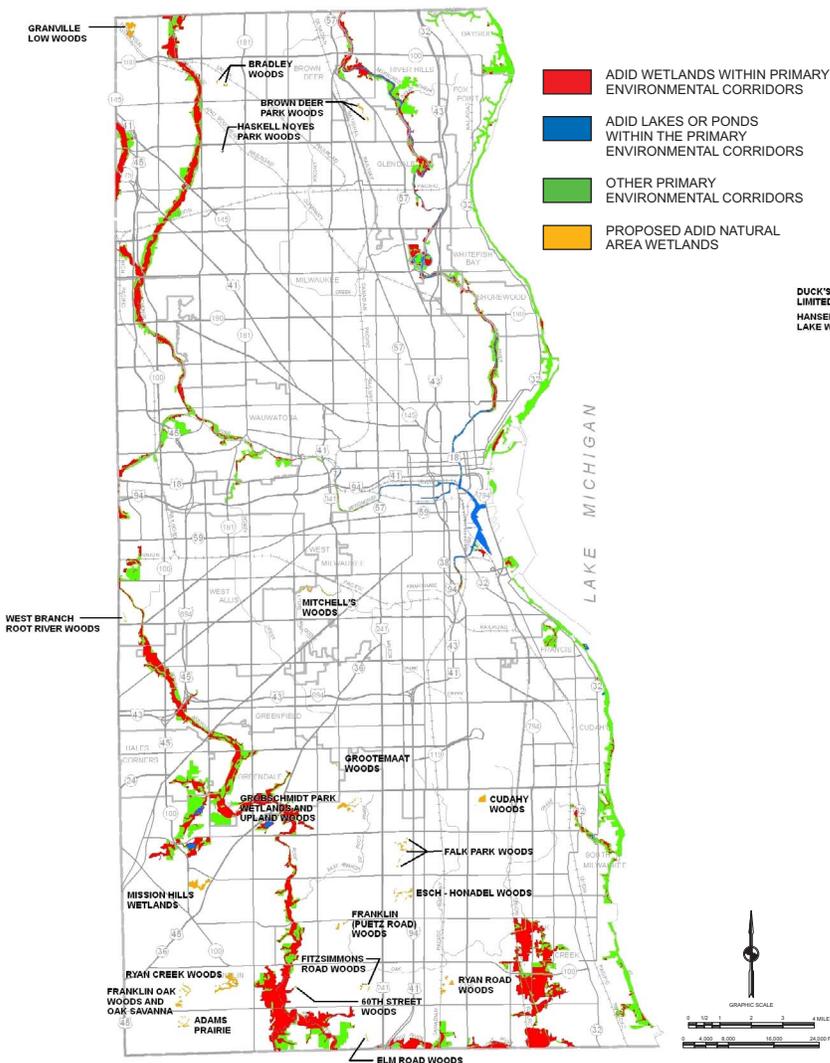
Map 4

ADID WETLANDS AND WATERS WITHIN THE SOUTHEASTERN WISCONSIN REGION BY COUNTY: 2005

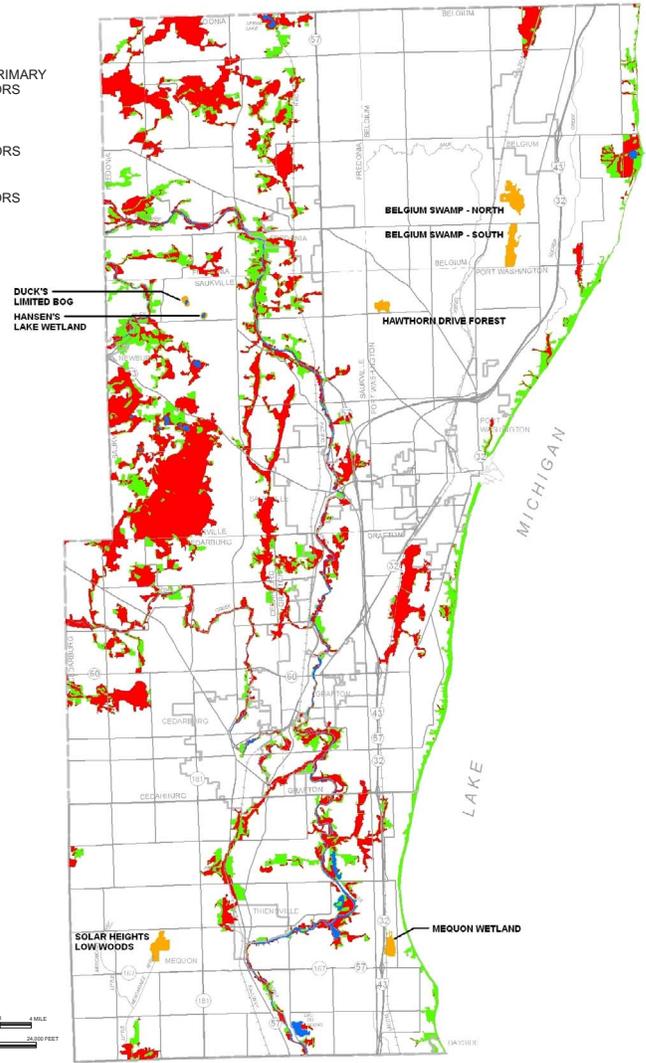
KENOSHA COUNTY



MILWAUKEE COUNTY

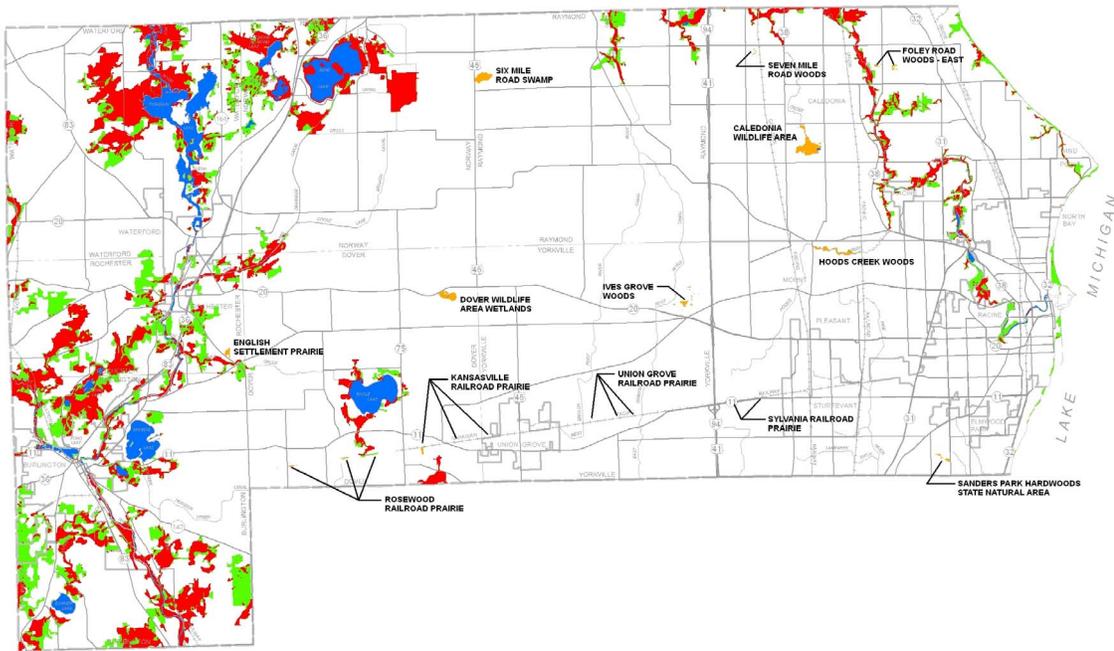


OZAUKEE COUNTY



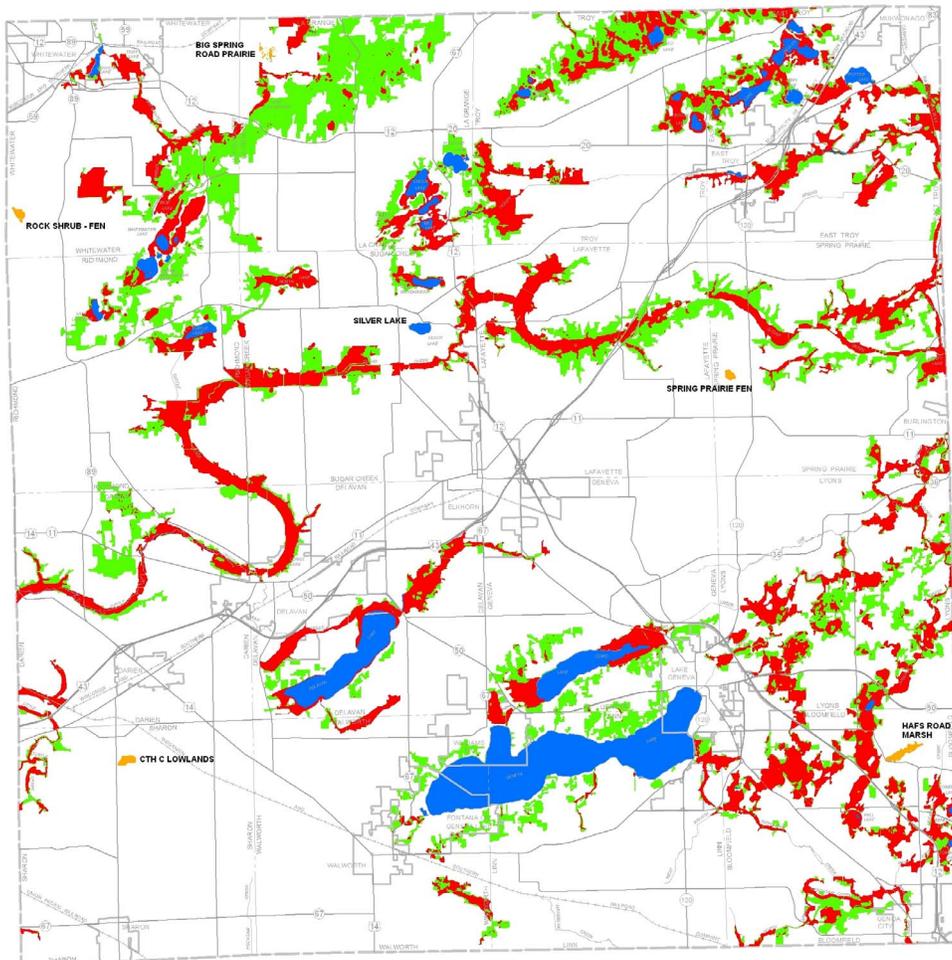
Map 4 (continued)

RACINE COUNTY

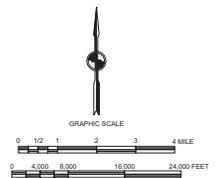


- ADDI WETLANDS WITHIN PRIMARY ENVIRONMENTAL CORRIDORS
- ADDI LAKES OR PONDS WITHIN THE PRIMARY ENVIRONMENTAL CORRIDORS
- OTHER PRIMARY ENVIRONMENTAL CORRIDORS
- PROPOSED ADDI NATURAL AREA WETLANDS

WALWORTH COUNTY

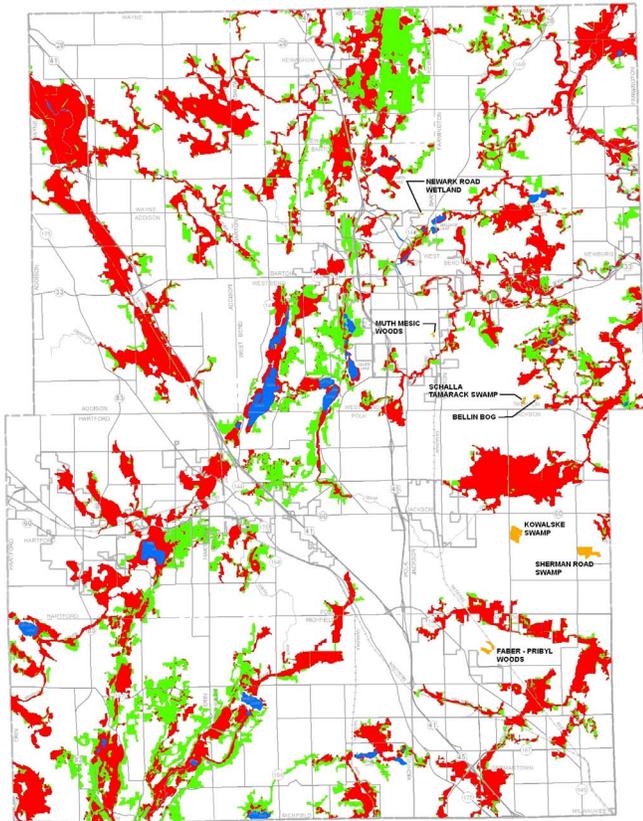


- ADDI WETLANDS WITHIN PRIMARY ENVIRONMENTAL CORRIDORS
- ADDI LAKES OR PONDS WITHIN THE PRIMARY ENVIRONMENTAL CORRIDORS
- OTHER PRIMARY ENVIRONMENTAL CORRIDORS
- PROPOSED ADDI NATURAL AREA WETLANDS



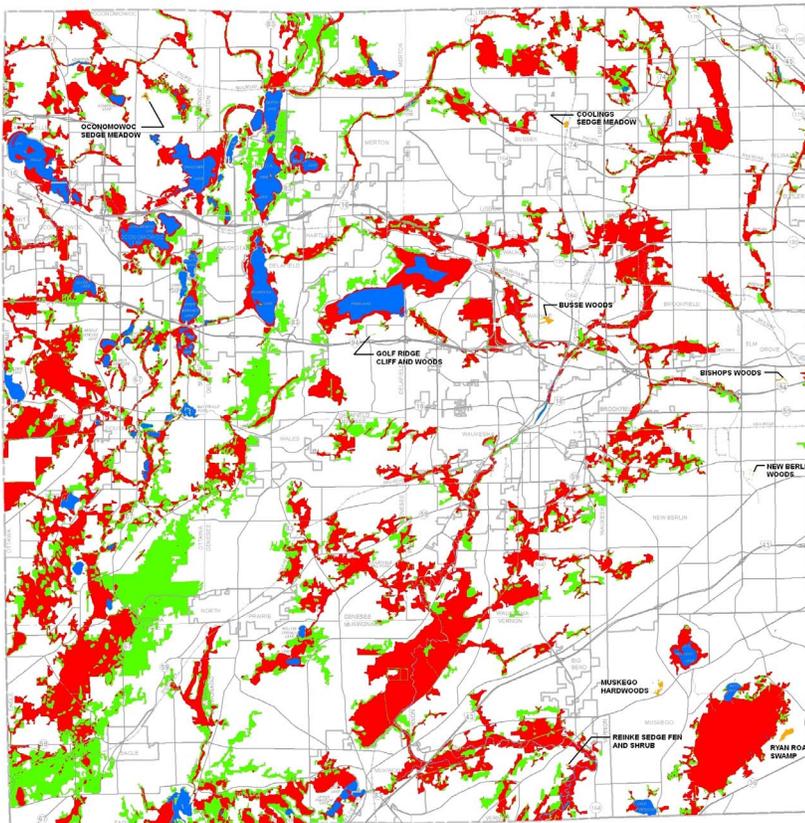
Map 4 (continued)

WASHINGTON COUNTY

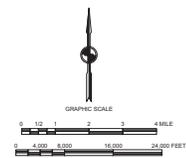


- ADID WETLANDS WITHIN PRIMARY ENVIRONMENTAL CORRIDORS
- ADID LAKES OR PONDS WITHIN THE PRIMARY ENVIRONMENTAL CORRIDORS
- OTHER PRIMARY ENVIRONMENTAL CORRIDORS
- PROPOSED ADID NATURAL AREA WETLANDS

WAUKESHA COUNTY



- ADID WETLANDS WITHIN PRIMARY ENVIRONMENTAL CORRIDORS
- ADID LAKES OR PONDS WITHIN THE PRIMARY ENVIRONMENTAL CORRIDORS
- OTHER PRIMARY ENVIRONMENTAL CORRIDORS
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Source: Wisconsin Department of Natural Resources and SEWRPC.

CONTACT INFORMATION

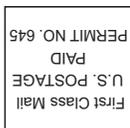
Further information on the regional natural areas and critical species habitat study, including all study materials—Advisory Committee meeting minutes, plan chapters, presentations, and study reports—are all available from the Commission.

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This newsletter was mailed directly to a list of individuals and organizations that have expressed interest in receiving such information. If you did not receive this newsletter directly, and would like to receive future issues, please contact the Commission using the contact information above.

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