

AMENDMENT TO THE

NATURAL AREAS AND CRITICAL SPECIES HABITAT PROTECTION AND MANAGEMENT PLAN FOR THE SOUTHEASTERN WISCONSIN REGION



AS ADOPTED BY THE
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

DECEMBER 2010

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Special recognition is also due to Mr. Andrew T. Struck, Director, Ozaukee County Planning and Parks Department; Mr. Nicholas A. Miller, Director of Conservation Science, Wisconsin Chapter of The Nature Conservancy; Mr. Ronald C. Kurowski, Parks Naturalist, Kettle Moraine State Forest, South Unit, Wisconsin Department of Natural Resources; Mr. John E. Bielefeldt, former Park Naturalist, Racine County Parks Department; and the staff of the Bureau of Endangered Resources, Wisconsin Department of Natural Resources, especially Mr. Eric J. Epstein, Community Ecologist and Ms. Rori A. Paloski, Conservation Biologist; for their contributions to this report.

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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Serving the Counties of:

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SUBJECT: Certification of Amendment to the Adopted Regional Natural Areas and Critical Species Habitat Protection and Management Plan

TO: The Legislative Bodies of Concerned Local Units of Government within the Southeastern Wisconsin Region, namely: the County of Kenosha, the County of Milwaukee, the County of Ozaukee, the County of Racine, the County of Walworth, the County of Washington, and the County of Waukesha

This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Milwaukee County War Memorial Center, North Memorial Hall, Milwaukee, Wisconsin, on the 1st day of December 2010, the Commission did by unanimous vote by all Commissioners present, being 17 ayes and 0 nays, and by appropriate Resolution, a copy of which is made a part hereof and incorporated by reference to the same force and effect as if it had been specifically set forth herein in detail, adopt an amendment to the regional natural areas and critical species habitat protection and management plan, which plan was originally adopted by the Commission on the 10th day of September 1997, as part of the master plan for the physical development of the Region. Said amendment to the regional natural areas and critical species habitat protection and management plan pertains to the physical changes in the Region, as well as new findings, which have occurred since the preparation of the original plan and consists of the document attached hereto and made a part hereof. Such action taken by the Commission is recorded on, and is a part of, said plan, and the plan as amended is hereby transmitted to the constituent local units of government for consideration, adoption, and implementation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and cause the Seal of the Southeastern Wisconsin Regional Planning Commission to be hereto affixed. Dated at the City of Pewaukee, Wisconsin, this 2nd day of December 2010.

David L. Stroik, Chairman
Southeastern Wisconsin Regional
Planning Commission

ATTEST:

Kenneth R. Yunker, P.E., Deputy Secretary

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RESOLUTION NO. 2010-19

**RESOLUTION OF THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING
COMMISSION AMENDING THE ADOPTED REGIONAL NATURAL AREAS
AND CRITICAL SPECIES HABITAT PROTECTION AND MANAGEMENT PLAN,
THAT PLAN BEING PART OF THE MASTER PLAN FOR THE PHYSICAL
DEVELOPMENT OF THE REGION COMPRISED OF THE COUNTIES OF KENOSHA,
MILWAUKEE, OZAUKEE, RACINE, WALWORTH, WASHINGTON, AND WAUKESHA
IN THE STATE OF WISCONSIN**

WHEREAS, pursuant to Section 66.945(10) of the *Wisconsin Statutes*, the Southeastern Wisconsin Regional Planning Commission, at a meeting held on the 10th day of September, 1997, duly adopted a natural areas and critical species habitat protection and management plan as documented in SEWRPC Planning Report No. 42, *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin*; and

WHEREAS, by letter dated March 31, 2005, the Gathering Waters Conservancy, a statewide land conservancy organization that serves many local land trusts and related groups in the Region, requested that the Commission update the natural areas and critical species habitat plan as it pertains to the physical changes in the Region, as well as new findings, which have occurred since the preparation of the original plan; and

WHEREAS, under the guidance of the Technical Advisory Committee for the Protection and Management of Natural Areas in Southeastern Wisconsin, the Commission staff has completed an amendment to the Regional natural areas and critical species habitat protection and management plan, which report contains recommendations for the protection, acquisition, and management of natural areas and critical species habitats in Southeastern Wisconsin, and which constitutes an integral part of the park and open space plan element of the master plan for the physical development of the Region; and

WHEREAS, the proposed amendment to the natural areas and critical species habitat plan is documented in a Commission plan amendment report entitled, "Amendment to the Regional Natural Areas and Critical Species Habitat Protection and Management Plan for the Southeastern Wisconsin Region" attached hereto and made a part thereof, which report concludes that the plan amendment requested by the Gathering Waters Conservancy is sound and in the public interest; and

WHEREAS, the proposed plan amendment was subject to four series of public information meetings held in Newburg, Hales Corners, Bristol, and Eagle, Wisconsin in April 2009; and

WHEREAS, the Technical Advisory Committee for the Protection and Management of Natural Areas in Southeastern Wisconsin unanimously approved the proposed amendment to the natural areas and critical species habitat plan at its meeting held on March 8, 2010; and

WHEREAS, Section 66.945(9) of the *Wisconsin Statutes* authorizes and empowers the Regional Planning Commission, as the work of making the whole master plan progresses, to amend, extend, or add to the master plan or carry any part of subject thereof into greater detail;

NOW, THEREFORE, BE IT HEREBY RESOLVED:

FIRST: That the regional natural areas and critical species habitat protection and management plan for the Southeastern Wisconsin Region, being a part of the master plan for the physical development of the Region and comprised of SEWRPC Planning Report No. 42, which was adopted by the Commission as part of the master plan on the 10th day of September 1997, be and the same hereby is amended in the manner identified on revised Maps 39 through 45 as reproduced in the aforereferenced SEWRPC staff plan amendment report.

RESOLUTION NO. 2010-19

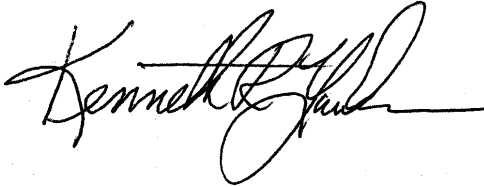
SECOND: That a true, correct, and exact copy of this resolution, together with the aforereferenced SEWRPC staff plan amendment report, shall be forthwith distributed to each of the local legislative bodies of the local governmental units within the Region entitled thereto and to such other bodies, agencies, or individuals as the law may require or as the Commission, its Executive Committee, or its Executive Director, at their discretion, shall determine and direct.

The foregoing resolution, upon motion duly made and seconded, was regularly adopted at the meeting of the Southeastern Wisconsin Regional Planning Commission held on the 1st day of December 2010, the vote being: Ayes 17; Nays 0.



David L. Stroik, Chairman

ATTEST:



Kenneth R. Yunker, Deputy Secretary

AMENDMENT TO THE

**NATURAL AREAS AND CRITICAL SPECIES HABITAT
PROTECTION AND MANAGEMENT PLAN FOR
SOUTHEASTERN WISCONSIN**

Prepared by the

Southeastern Wisconsin Regional Planning Commission
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The preparation of this report was funded in part by the Wisconsin Coastal Management Program and the National Oceanic and Atmospheric Administration, Office of Ocean and Coastal Resource Management under the Coastal Zone Management Act, Grant # NA06NOS4190183.



December 2010

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Section 1

INTRODUCTION

This report documents an amendment to the natural areas and critical species habitat protection and management plan for southeastern Wisconsin. The amendment 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. That initial plan was adopted by the Commission that same year. 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 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.

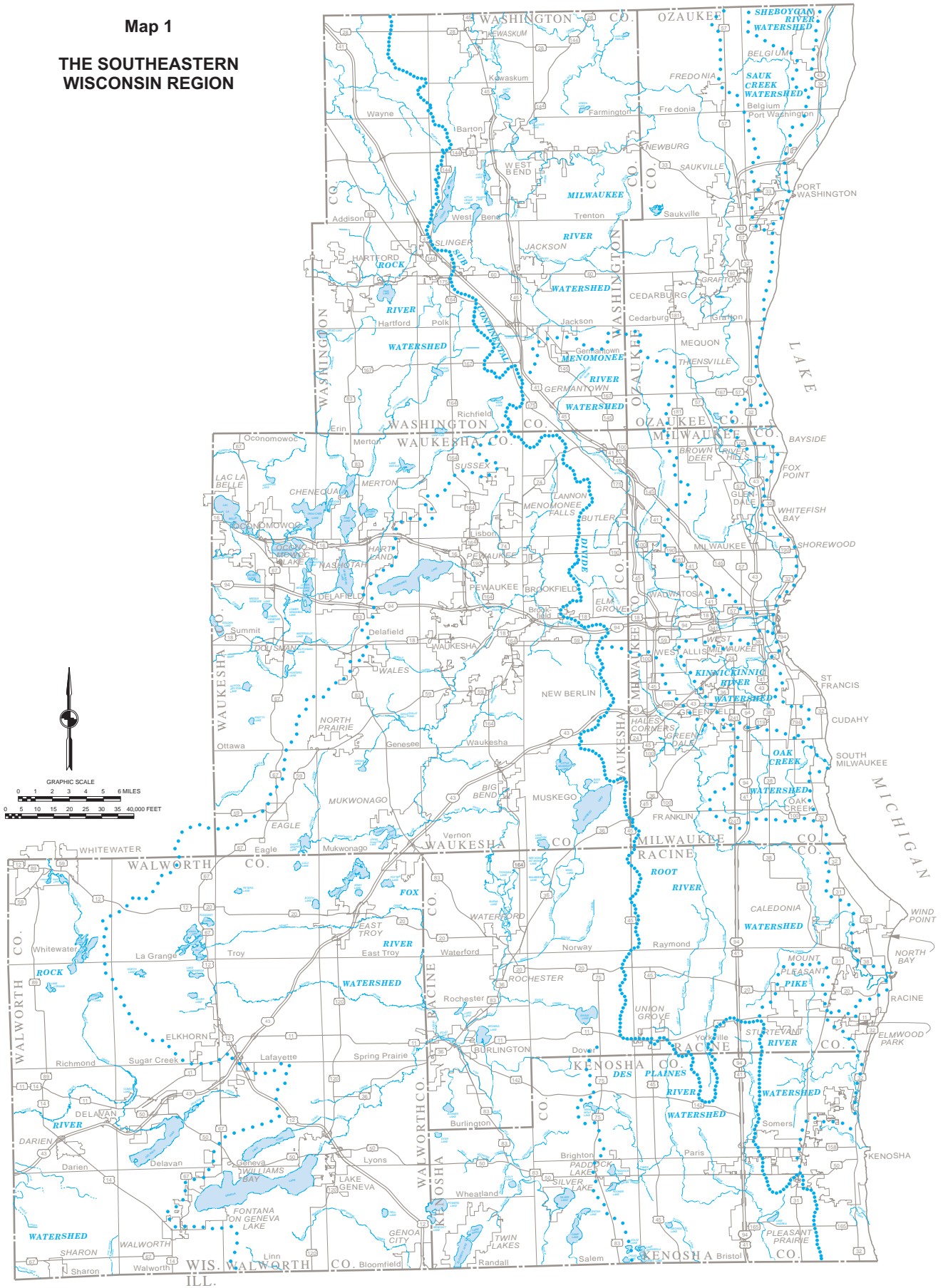
THE REGION

The Southeastern Wisconsin Region consists of Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Washington, and Waukesha Counties (see Map 1). Exclusive of Lake Michigan, these seven counties have a total area of 2,689 square miles, or about 5 percent of the total area of Wisconsin. These counties, however, account for about 36 percent of the total population of the State, about 36 percent of all jobs in the State, and about 37 percent of the total tangible wealth of the State, as measured by equalized property value. Exclusive of school and other special-purpose districts, the Region contains 154 local units of government, all of which participate in the work of the Commission.

NEED FOR PLAN REVIEW AND RE-EVALUATION

Within the planning framework conceived by the Commission, the periodic review of major elements of the natural area and critical species habitat plan is essential. Owing to the passage of time, there is a need to evaluate the plan in light of changes which have occurred with respect to population growth, land use development, climate change, and discernable changes to the fauna and flora populations and their associated habitat conditions.

Map 1
THE SOUTHEASTERN WISCONSIN REGION



Source: SEWRPC.

BASIC PRINCIPLES

The Commission's regional natural areas and critical species habitat plan is based upon seven basic principles:

1. That the ultimate purpose of a natural areas protection and management plan is to guide the identification, protection, and management of high-quality natural areas and critical species habitats in Southeastern Wisconsin.
2. That effective solutions to the problems of natural areas and critical species habitat protection and management in the Region can be achieved only by considering all important aspects of the natural resource base, together with all significant human modifications and uses thereof. This requires that the natural areas and critical species habitat planning effort be carried out within the context of a comprehensive areawide planning effort.
3. That the study will utilize the latest identification, protection, and management techniques in developing a protection and management plan for natural areas and critical species habitat in the Region.
4. That the task of maintaining and implementing a natural areas and critical species habitat protection and management program, the collection and analysis of basic data under such a program, and the formulation of improvement plans and of related plan implementation programs all require close and continuing cooperation among the various levels and agencies of government and non-governmental conservation organizations concerned with, and involved in, natural areas and critical species habitat protection and management.
5. That full use will be made of all previously published and unpublished surveys, reports, and other pertinent data on natural areas of Southeastern Wisconsin, including, but not limited to, technical information assembled by the following agencies and individuals: U.S. Department of the Army, Corps of Engineers; U.S. Department of the Interior, Fish and Wildlife Service and Geological Survey; Wisconsin Department of Natural Resources; Milwaukee Public Museum; University of Wisconsin System; Milwaukee Metropolitan Sewerage District; land trusts; and biologists and naturalists familiar with the natural resource base of the Southeastern Wisconsin Region. Additional data collection will be conducted only as necessary to develop essential original data currently unavailable or to supplement, or update, existing data.
6. That the study will deal with natural areas and critical species habitat protection and management concerns, as well as identifying significant known archaeological and geological sites, and will provide a framework within which an integrated natural areas protection and management plan can be readily prepared.
7. That although time is of the essence, the breadth of the study and its intensity must not be sacrificed for the expediency of effecting temporary, short-range solutions to the problems of natural areas protection and management in Southeastern Wisconsin.

It is intended that the present work effort culminate in the adoption of an amendment to the natural areas and critical species habitat protection and management plan, updating the prior work as necessary to reflect preservation and development decisions made over the past 10 years, and to incorporate new information. In this way, the updated plan will provide for the identification, protection, and management of the Region's high-quality natural areas and critical species habitat in an economically feasible, socially responsive, functionally sound, and environmentally sensitive manner.

THE PLANNING PROCESS

The planning process followed in preparing the original regional natural areas and critical species habitat protection and management plan involved the formulation of objectives and standards; the conduct of extensive inventories; the undertaking of analyses; the synthesis, testing and evaluation of plans; the selection and adoption of a final plan; and the preparation of plan implementation recommendations. These steps are described in detail in the aforementioned SEWRPC Planning Report No. 42.

For the purposes of updating the regional natural areas and critical species habitat protection plan and preparing this amendment to that plan, the following operational steps were undertaken:

1. All natural areas, critical species habitat areas, aquatic areas, and geological areas that were listed in SEWRPC Planning Report No. 42, were re-examined for
 - a. upgrading or downgrading of their classification codes (rank) based on significant changes to their site quality, such as due to recent severe flooding
 - b. significant changes to their boundaries, based on examination of the Commission's 2005 aerial photography and/or applicable field inspections.
 - c. any recommended protective ownership changes
2. Additional natural areas, based on information acquired subsequent to the publication of SEWRPC Planning Report No. 42, were evaluated and classified according to their:
 - a. rank based on site quality (i.e., does the area meet the criteria for inclusion in the natural area plan?)
 - b. areal extent (boundary) of the site.
 - c. recommended protective ownership, based on the criteria set forth in SEWRPC Planning Report No. 42.
3. Changes to the original sites, as well as the addition of new sites, were added to the Commission's Geographic Information System for mapping and analysis.

ORGANIZATIONAL STRUCTURE AND PUBLIC INVOLVEMENT FOR THE PLAN UPDATING WORK EFFORT

As the science of conservation biology has developed in the last several decades, there has been a greatly increased understanding of the long-term dynamics of natural areas. Areas that are remnants of once much more extensive landscapes face two fundamental issues: First, their generally small size means relatively low populations of specialist ("faithful") organisms. Second, interior habitat is typically less vulnerable to biotic and abiotic edge effects. However, smaller habitat areas have proportionally greater edge and less interior habitat, which can lead to serious degradation of protected areas over time. Many fundamentally intact remnants of natural habitats in Southeastern Wisconsin have been recognized and offered protected status. However, for this protection to be effective over the long term, consideration must be given to significantly expanding the network of protected areas.

The work leading to the updating of the natural areas and critical species habitat protection and management plan was carried out by the staff of the Commission under the guidance of the Commission's Advisory Committee for the Protection and Management of Natural Areas. Membership on that Committee consists primarily of public and private natural resource managers, park directors, and university scientists from counties and communities from throughout the Southeastern Wisconsin Region, as well as representatives from the Wisconsin Department of Natural Resources. A complete membership list of the Advisory Committee is provided on the inside front cover of this report. The Advisory Committee guided the plan updating process, reviewing and approving this report.

Also, during the course of the plan updating effort, the Commission staff worked with a number of interests through informal meetings, providing information about, and obtaining input on, the plan and the planning process. These interests included primarily groups, organizations, and individuals concerned with environmental protection and preservation.

The Commission also maintained a website—www.sewrpc.org/regionalplans—which included all materials prepared under this work effort; Advisory Committee meeting agendas and minutes; and an opportunity for individuals to provide comments on the plan amendment proposals.

SCHEME OF PRESENTATION

The findings and recommendations presented in this report serve to update the originally prepared and adopted planning document. The report reaffirms the basic principles and concepts underlying the original study and the factual findings of the extensive inventories conducted under that study. It identifies and, to the extent possible, quantifies the historic loss of and changes to natural areas and critical species habitat in the Region since the original study. The report presents an overview of changes to relevant policies and laws regarding natural areas, critical species habitats, and critical species law since the original study; and sets forth updated recommendations relative to protecting the remaining natural areas and critical species habitats in the Region. The report is intended to allow for careful, critical review of the updated plan by public officials, agency staff personnel, and citizen leaders within the Region and to provide the basis for adoption and implementation by the Federal, State, and local agencies of government concerned.

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Section 2

BACKGROUND

INTRODUCTION

The initial SEWRPC Planning Report No. 42 identified the most important remaining natural areas, critical species habitat areas, aquatic areas, geological areas, and archaeological sites in the Southeastern Wisconsin Region, and recommended means for their protection and management. This section defines the specific terms used, and provides a summary of the findings of that initial study.

DEFINITION OF TERMS

Several terms and concepts occur throughout this report that require clear definition at the onset. Accordingly, definitions are provided for the following terms.

Archaeological Sites: Archaeological sites are herein 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, basketry, bottles, weapons, weapon projectiles, tools, structures or portions of structures, pit houses, rock paintings, rock carvings, intaglios, graves, human skeletal materials, or any portion or piece of any of the foregoing items; aboriginal mounds and earthworks; ancient burial grounds; prehistoric and historic ruins; Indian mounds; and other archaeological and historical features.^{1,2}

Biodiversity: biodiversity as a concept refers to the entire spectrum of life-forms in a geographic area and the many ecological processes that support those life-forms. See also page 10.

Biotic Community: A biotic community is herein defined as any community that can be delineated in the environment on the basis of the composition of its animals, plants, and other organisms.

Critical Species: Critical species are herein defined as those animals, plants, and other organisms considered by the Federal or State governments to be rare, threatened, or endangered or to have significantly declining or unstable populations.

¹*National Historic Preservation Act of 1966, as amended, 16 U.S.C., Section 470bb.*

²*Wisconsin Statutes, Section 44.47(1)(b).*

Critical Species Habitat: Critical species habitats are herein defined as those tracts of land or water which support Federally or State-listed rare, threatened, and/or endangered plant or animal species as defined by State or Federal agencies. These habitats include the abiotic and biotic factors necessary for the long-term support of the critical species population.

Ecosystem: An ecosystem is herein defined as the sum of all organisms of a locality and their interactions with both the abiotic and biotic elements of the environment.

Endemic: Native or restricted to a specific geographic region or environment.

Extirpated Species: An extirpated species is herein defined as any species that has disappeared from the State as a breeding species, although it may still be present in other states. Animals and plants designated as extirpated have been lost to the breeding population within the State between 1800 and the present.

Federally Designated Endangered Species: A Federally designated endangered species is herein defined as any species or subspecies designated by the U.S. Congress as being in danger of extinction throughout all, or a significant portion, of its range.

Federally Designated Threatened Species: A Federally designated threatened species is herein defined as any species or subspecies designated by the U.S. Congress as being likely within the foreseeable future to become endangered throughout all, or a significant portion, of its range.

Gene Pool: A gene pool is herein defined as the total of all the genetic material of all the organisms within a designated population.

Geological Sites: Geological sites are herein defined as those tracts of land that include such specific glacial features as eskers and kames, fossil beds, and rock outcrop and exposed bedrock sites of scientific and educational value. Such sites may also support specific plant communities, such as dry prairie remnants or oak openings on eskers and kames.

Natural Areas: Natural areas are herein defined as those 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 area sites may be ranked according to several factors, including diversity of plant and animal species and community types present; the structure and integrity of the native plant or animal community; the extent of disturbance from human activity, such as logging, grazing, water level changes, and pollution; the commonness of the plant and animal communities present; the size of the area; any unique natural features within the area; and the educational and scientific value. These rankings and how they relate to the aforementioned factors are discussed further in Chapter II, "Basic Principles and Concepts," of SEWRPC Planning Report No. 42.

Plant Community: A plant community is herein defined as a particular association of plants, usually described by referring to the most characteristic species and/or moisture conditions. Examples include "beech-maple forest," "sedge meadow," and "dry-mesic prairie."

Presettlement Vegetation: The presettlement vegetation is herein defined as the characteristic vegetation of Southeastern Wisconsin prior to settlement by Europeans.

Rare Species: Rare species are herein defined as those native animal or plant species which occur infrequently either as individuals or in specific communities on the landscape.

Special Concern Species: A special concern species, also known as a watch species, is herein defined as any native species within the State of Wisconsin about which some problem of abundance or distribution is suspected, but not yet demonstrated. This designation is an informational, non-legal category designed to focus attention on certain species before they become endangered or threatened.



The Prairie white-fringed orchid (*Platanthera leucophaea*) is a Wisconsin endangered and Federally threatened plant of undisturbed mesic to wet mesic prairies. In southeastern Wisconsin, this showy orchid is extremely rare and restricted to only a few of the highest quality prairies.

Source: Ann Moretti.

State-Designated Endangered Species: State-designated endangered species is herein defined to include any species native to the State of Wisconsin whose continued existence as a viable component of the State’s wild animals or wild plants determined by the Wisconsin Department of Natural Resources, on the basis of scientific evidence, to be in jeopardy.³

State-Designated Threatened Species: State-designated threatened species is herein defined to include any species of wild animals or wild plants native to the State of Wisconsin which appear likely, within the foreseeable future and on the basis of scientific evidence, to become endangered.⁴

SUMMARY OF FINDINGS OF THE ORIGINAL PLANNING EFFORT

Historical Loss of Natural Areas and Critical Species Habitat: 1836 - 1990

Natural area and critical species habitat losses in Southeastern Wisconsin have been profound. Figure 1 depicts the Pre-Settlement Vegetation of the Region in 1836. About 83 percent of the pre-European-settlement vegetation had been lost by 1990. The Region has experienced a substantial loss of wetlands and woodlands. Once abundant in the Region, prairies and oak savannas have nearly disappeared from the landscape. Prairies declined from an estimated 267 square miles prior to European settlement to about two square miles in 1990. Oak savannas declined from an estimated 605 square miles prior to European settlement to about 0.2 square mile in 1990.

At the time of completion of the original study, an indeterminant number of native plant and animal species had been extirpated, that is, had disappeared as breeding species, from the Region since 1836. In addition, a total of 45 native plant and 35 vertebrate animal species that occurred in Southeastern Wisconsin were listed by the Wisconsin Department of Natural Resources as endangered or threatened in Wisconsin. An additional 70 plant and 70 vertebrate animal species had been identified as of special concern.

Scope and Purpose

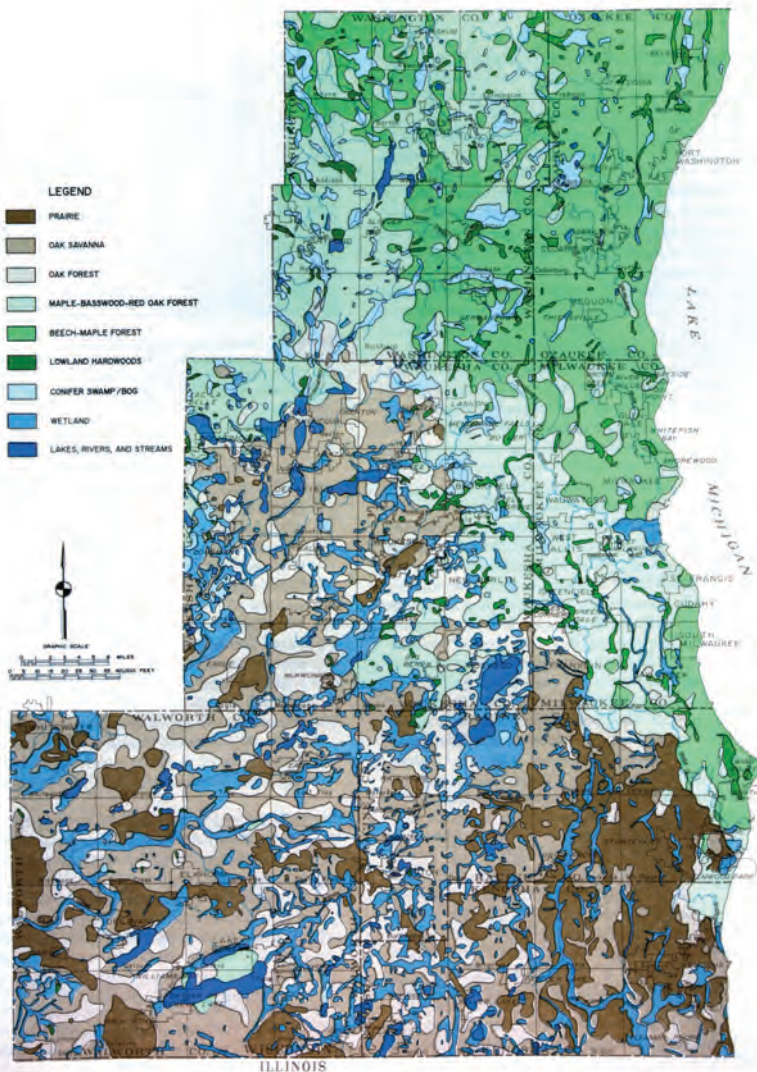
The primary purpose of the original study was to identify and make recommendations for the protection and management of the most significant “natural areas” and “critical species habitats” remaining in the Southeastern Wisconsin Region. For purposes of the study, “natural areas” were defined as those tracts of land or water so little modified by human activity, or which had sufficiently recovered from the effects of such activity, that they contained intact native plant and animal communities believed to be representative of the pre-European-settlement landscape. “Critical species habitats” were defined as those additional tracts of land or water which supported endangered, threatened, or special concern plant or animal species.

³Wisconsin Statutes, *Section 29.415(2)(a)*.

⁴Wisconsin Statutes, *Section 29.415(2)(b)*.

Figure 1

PRE-SETTLEMENT VEGETATION OF SOUTHEASTERN WISCONSIN: 1836



The figure of the pre-European-settlement vegetation cover of Southeastern Wisconsin was interpreted from the 1835-1836 records of the original land surveyors who conducted the first United States government survey of the State. This figure presents the natural vegetation of the Region as it existed before significant alteration by European settlement. Because of the small scale, minor areas of vegetation cannot be shown. The limited detail of the survey records allows only generalized vegetation types to be mapped. Judgments were made as to precisely where to draw the boundaries between cover types, since different vegetation types in nature rarely exhibit distinct boundaries.

Source: SEWRPC.

support those life-forms. The concept includes the full complement of all the genetic material carried by all the individuals of a particular species; the variety of species within a geographic area; the various plant and animal communities that are composed of species and their habitats; and the complex interactions between living organisms and the nonliving environment.

In considering the scope of the study, the Commission's technical advisory committee guiding the work determined that, in addition to natural areas and critical species habitats, the study should also address the identification, protection, and management of sites which are of special geological or archaeological significance. These sites, like natural areas and critical species habitats, are subject to inadvertent disturbance or destruction as urbanization within the Region continues, resulting in the loss of the opportunities that these sites afford for educational and scientific pursuits. For purposes of the study, "geological sites" were 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. "Archaeological sites" were 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.

Importance of Preserving Natural Areas and Critical Species Habitats

Natural areas and critical species habitat areas contain interactive groups of plants and animals existing in particular environments. In effect, such areas represent living museums of a variety of habitats in which plants and animals have adapted to exist in the physical world. Natural areas and critical species habitats benefit humans in a number of ways. Among the most important of these benefits are the following:

Maintenance of Biodiversity

"Biodiversity" is a shortened form of the term "biological diversity." Simply stated, biodiversity as a concept refers to the entire spectrum of life-forms in a geographic area and the many ecological processes that



The lesser fringed gentian (*Gentianopsis procera*), a Wisconsin special concern plant, and Grass-of-Parnassus (*Parnassia glauca*), left to right respectively, are characteristic plants of calcareous fens. Calcareous fens are one of the rarest wetland plant communities in North America. They occur on wet, seepage sites having an internal flow of groundwater rich in calcium and magnesium bicarbonates. A total of 33 such fens are recommended to be protected under the natural area plan.

Source: Donald M. Reed and SEWRPC.



Located within the Southern Unit of the Kettle Moraine State Forest, the Kettle Moraine Low Prairie is a remnant of the once extensive prairie system that characterized western Waukesha County. The Kettle Moraine Low Prairie State Natural Area is located on a glacial outwash plain drained by the Scuppernon River. This rich prairie system is dominated by Big and Little bluestem grass (*Andropogon gerardii* and *Schizachyrium scoparium*, respectively), Indian Grass (*Sorghastrum nutans*), and Prairie Dock (*Silphium terebinthinaceum*). The above photograph, taken in early August, shows extensive flowering stands of Marsh blazing star (*Liatris spicata*), a Wisconsin special concern plant, and Yellow coneflower (*Ratibida pinnata*).

Source: Ronald C. Kurowski.

It is important to preserve biodiversity because a greater wealth of species can make ecosystems more productive and stable. Greater diversity helps ensure that species and ecosystems are better able to respond to and recover from environmental changes. Preserving and maintaining natural areas preserves biodiversity by enabling the full spectrum of native species and communities which they support to interact and function under natural conditions.

Support of Basic Scientific Research

Natural areas provide relatively undisturbed bench marks to which the impacts of urban and rural development on an area may be compared. They provide laboratories where natural processes may be observed, analyzed, and compared. In addition, they act as early warning systems indicating that more far-reaching environmental degradation may be occurring, and they provide a template for mitigation efforts.

Functional Values

Natural areas function as “environmental regulators.” Woodland components of natural areas protect the quality and quantity of

both surface water and groundwater and also modify weather impacts, such as the effects of wind. Tree, shrub, and herb cover and the associated root structure protect soil from erosion. Wetland components of natural areas help to regulate stream flows and lake levels by serving as natural reservoirs, abating both floods and droughts. Wetlands protect surface-water quality by trapping silt and sediment contributed by both point and nonpoint sources of pollution. Wetlands also protect stream and lake shoreline areas from erosion and support groundwater recharge and discharge.

Cultural and Educational Value

With proper management, natural areas may accommodate nature study, bird watching, nature photography, and similar passive recreational pursuits. Natural areas provide opportunities for the biological sciences to be taught on a firsthand basis.

Economic Value

In a very real sense, natural areas contribute to the economy of any region by supporting activities such as hunting, fishing, trapping, gathering of plant products, forestry, and tourism. They tend to increase the value of adjacent property, and help in maintaining air and water quality. Native species supported by natural areas may provide new sources of food, may help to improve cultivated crops, and may aid in the creation of new medicines.

Aesthetic Value

Natural areas add variety and interest to, and relieve the stress of, increasingly urbanized landscapes.

Relationship to the Regional Plan

The natural areas and critical species habitat protection and management plan represents an important element of the comprehensive plan for the Region. It provides an important supplement to the open space preservation recommendations of the regional land use and park and open space plans.

One of the most important recommendations of the regional plan is the preservation in essentially natural, open uses of "primary environmental corridors." Such corridors are defined by the Commission as elongated areas in the landscape which contain concentrations of the best remaining elements of the natural resource base, including wetlands, woodlands, surface-water areas and associated undeveloped shorelands and floodplains, and wildlife habitat areas. Within the Region, these corridors generally lie along major stream valleys, around major lakes, and in the Kettle Moraine area. The preservation of these corridors is essential to the maintenance of the overall quality of the environment within the Region, to the maintenance of its natural beauty, and to the provision of adequate opportunities for recreational, educational, and scientific pursuits.

The environmental corridor concept was a major factor in the preparation of the natural areas and critical species habitat protection and management plan. Location within a primary environmental corridor was a basic consideration in recommending priorities for the protective ownership of individual natural areas and critical species habitat sites. In addition, the site-specific inventory information collected under the natural areas and critical species habitat planning effort permits a more precise delineation of environmental corridors under the continuing regional planning program.

Inventory Findings

Inventory work conducted under the original study identified the following natural areas and critical species habitats within the Region:

Natural Areas

The original study identified a total of 447 natural areas in Southeastern Wisconsin (Maps 2 through 8). Together, these areas encompassed about 90 square miles, or about 3 percent of the total area of the Region. These sites included examples of all major pre-European-settlement vegetative community types. Many of the sites supported and continue to support endangered, threatened, or rare plant or animal species. Using a classification system originally developed by the Wisconsin Department of Natural Resources and refined by the Regional Planning Commission, each of the identified natural areas were classified as being of statewide or greater significance, or



The Scuppernong Prairie is located within the Southern Unit of the Kettle Moraine State Forest portion of Waukesha County. This rich prairie system is dominated by Big bluestem grass (*Andropogon gerardii*), Indian Grass (*Sorghastrum nutans*), Canada bluejoint grass (*Calamagrostis canadensis*), Prairie Dock (*Silphium terebinthinaceum*) and Compass plant (*Silphium laciniatum*). The photograph on the right shows the Compass Plant and Prairie dock in flower. This 185 acre prairie also supports several rare, threatened and endangered plant and animal species. The Scuppernong Prairie was designated a State Natural Area in 1952.

Source: Donald M. Reed and SEWRPC.



an “NA-1” site; of countywide or regional significance, or an “NA-2” site; or of local significance, or an “NA-3” site. NA-1 sites represent excellent examples of nearly complete and relatively undisturbed plant and animal communities which are believed to closely resemble those present during pre-European-settlement times. NA-2 sites represent native biotic communities judged to be of lower than NA-1 significance because of evidence of limited human disturbance. NA-3 sites represent native biotic communities judged to have been substantially altered by human activities but which are of local significance, often containing good wildlife habitat or providing refuge for a number of native plant species which no longer exist in the surrounding area. Of the 447 natural area sites identified in the inventories, 40 sites, which together encompassed an area of about 14 square miles, were identified as NA-1 sites; 122 sites which together encompassed an area of about 33 square miles, were identified as NA-2 sites; and 285 sites, which together encompassed an area of about 43 square miles, were identified as NA-3 sites.

Critical Plant Species Habitats

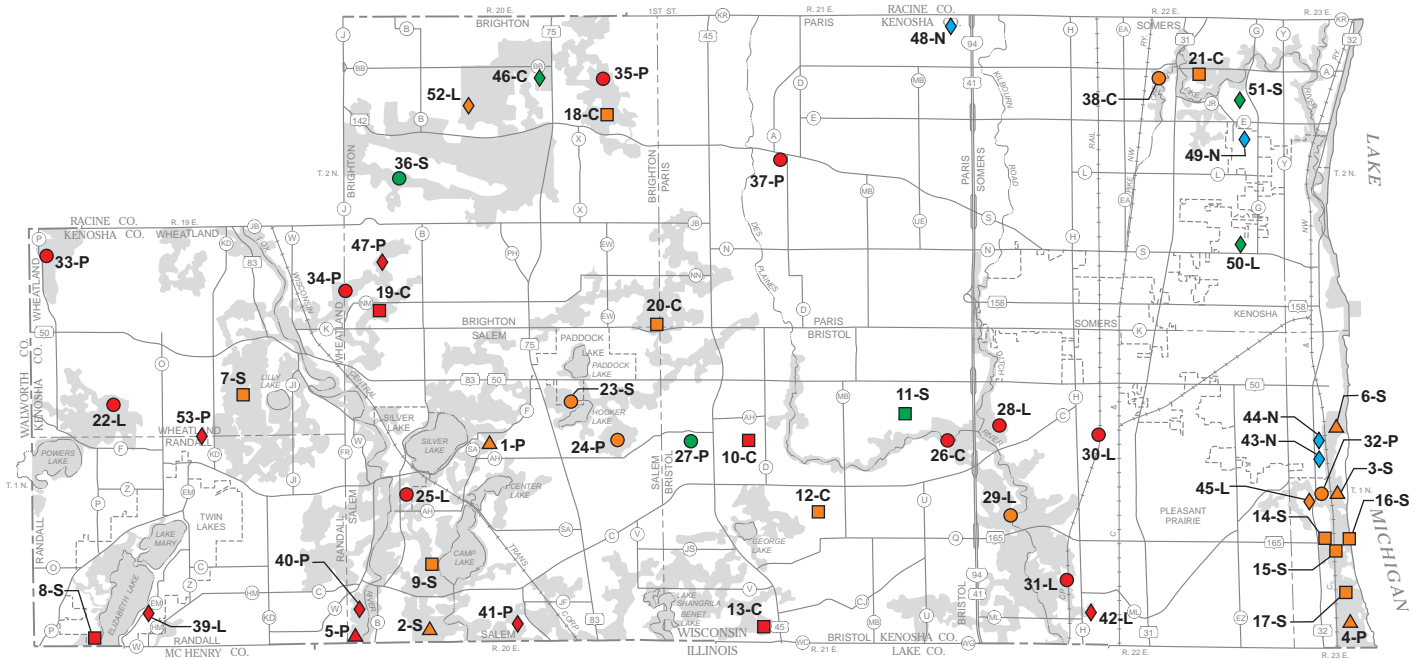
The original study identified a total of 112 critical plant species habitat sites (see Map 9). These consist of areas which were located outside designated natural area sites, but which nevertheless supported one of more endangered, threatened, or rare plant species. While these sites did not meet criteria for classification as natural areas, their preservation was and continues to be important to the maintenance of the critical plant species concerned.

Critical Bird Species Habitats

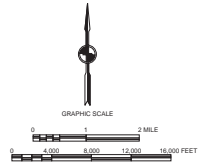
The original study identified a total of 120 critical bird species habitat sites (see Map 10). These consisted of areas which were located wholly or partly outside designated natural area sites, but which nevertheless supported one or more endangered, threatened, or rare bird species. One of these sites was also identified as a critical plant species habitat site.

Map 2

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN KENOSHA COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT	RECOMMENDED OWNERSHIP KEY:
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	(NONE)	■	●	◆	S-STATE GOVERNMENT C-COUNTY GOVERNMENT L-LOCAL GOVERNMENT P-PRIVATE CONSERVANCY ORGANIZATION N-NO PROTECTIVE OWNERSHIP RECOMMENDED
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	◆	
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO BE ACQUIRED	▲	■	●	◆	■ PRIMARY ENVIRONMENTAL CORRIDORS
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED, TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	(NONE)	◆	



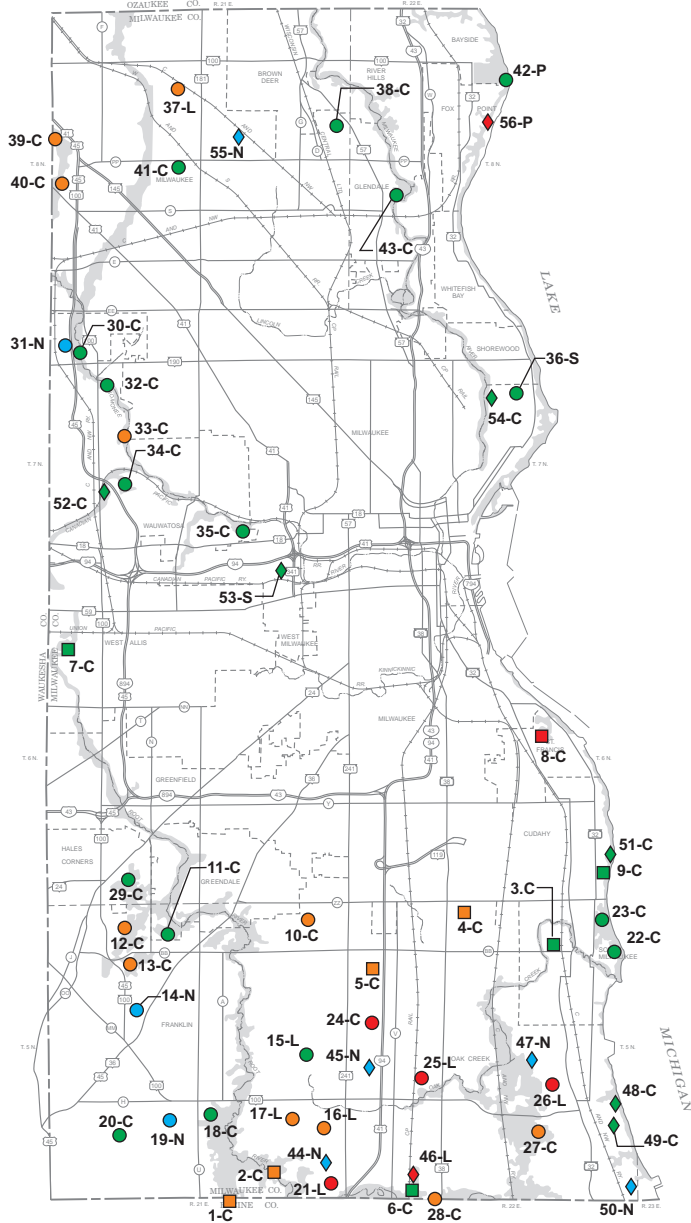
Reference Key to Map 2

- | | |
|--|--------------------------------------|
| 1 Silver Lake Bog State Natural Area | 28 Lake Russo Prairie Remnant |
| 2 Peat Lake State Natural Area | 29 Des Plaines River Lowlands |
| 3 Carol Beach Low Prairie and Panné State Natural Area | 30 Bain Station Railroad Prairie |
| 4 Chiwaukee Prairie State Natural Area | 31 Pleasant Railroad Prairie |
| 5 Stopa Fen | 32 Carol Beach Estates Prairie |
| 6 Kenosha Sand Dunes and Low Prairie | 33 Dyer Lake Sedge Meadow |
| 7 New Munster Shrub-Carr and Tamarack Relict | 34 Peterson Creek Sedge Meadow |
| 8 Elizabeth Lake Lowlands | 35 Section 11 Wetlands and Oak Woods |
| 9 Camp Lake Marsh | 36 Bong Low Prairie |
| 10 Merkt Woods | 37 Paris (Ehlen) Prairie Remnant |
| 11 Benedict Prairie | 38 Pike River Low Woods |
| 12 Bristol Woods | 39 Hamilton Woods |
| 13 Mud Lake Sedge Meadow | 40 Wilmot Ski Hill Prairie |
| 14 104th Street Mesic Prairie | 41 Trevor Creek Wet Prairie |
| 15 Carol Beach Prairie | 42 Piela Property |
| 16 Barnes Creek Dunes and Panné | 43 Martin Band Parcel |
| 17 Tobin Road Prairie | 44 Nedweski Parcel |
| 18 Friendship Lake Marsh | 45 Barnes Creek |
| 19 CTH NN Sedge Meadow | 46 Brighton-Dale Woods |
| 20 Harris Marsh and Oak Woods | 47 Peterson Creek Wetland |
| 21 Petrifying Springs Woods | 48 Poisl Woods |
| 22 Powers Lake Tamarack Relict | 49 Thompson Woods |
| 23 Hooker Lake Marsh | 50 Bradford School Woods |
| 24 Montgomery Lake Marsh | 51 Parkside Woods |
| 25 CTH B-CTH AH Sedge Meadow | 52 Bong Recreation Area |
| 26 Des Plaines River Wetlands | 53 Unnamed Wetland |
| 27 Salem Road Marsh | |

Source: Wisconsin Department of Natural Resources and SEWRPC.

Map 3

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN MILWAUKEE COUNTY



Reference Key to Map 3

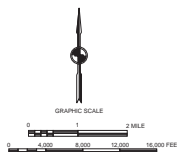
- 1 Root River Canal Woods
- 2 Root River Wet-Mesic Woods—West
- 3 Rawson Park Woods
- 4 Cudahy Woods
- 5 Falk Park Woods
- 6 Root River Wet-Mesic Woods—East
- 7 Greenfield Park Woods
- 8 St. Francis Seminary Woods
- 9 Warnimont Park Fens
- 10 Grobschmidt Park Wetlands and Upland Woods
- 11 Root River Parkway Woods
- 12 Whitnall Park Woods—South
- 13 Monastery Lake Wetlands
- 14 Mission Hills Wetlands
- 15 Franklin (Puetz Road) Woods
- 16 Fitzsimmons Road Woods
- 17 Oakwood Park Oak Woods
- 18 Root River Parkway Prairie
- 19 Ryan Creek Woods
- 20 Franklin Oak Woods and Oak Savanna
- 21 Elm Road Woods
- 22 Grant Park Woods—South
- 23 Grant Park Woods—Old Growth
- 24 Esch-Honadel Woods
- 25 Wood Creek Woods
- 26 Wedge Woods
- 27 Oak Creek Low Woods
- 28 Root River Riverine Forest
- 29 Whitnall Park Woods—North
- 30 Menomonee River Swamp—South
- 31 Harley-Davidson Woods
- 32 Currie Park Low Woods
- 33 Blue Mound Country Club Woods
- 34 Wil-O-Way Woods
- 35 Jacobus Park Woods
- 36 Downer Woods
- 37 Bradley Woods
- 38 Brown Deer Park Woods
- 39 Harbinger Woods
- 40 Menomonee River Swamp—North
- 41 Haskell Noyes Park Woods
- 42 Schlitz Audubon Center Woods and Beach
- 43 Keltzsch Park Woods
- 44 Elm Road Woods—North
- 45 Meyers Woods
- 46 PPG Woods
- 47 Fittshur Wetland
- 48 Bender Park Woods and Clay Banks
- 49 Bender Park Woods—South
- 50 Oak Creek Power Plant Woods
- 51 Warnimont Park Woods
- 52 Underwood Parkway Woods
- 53 Stadium Bluff Woods
- 54 Cambridge Avenue Woods
- 55 Brynwood Country Club Woods
- 56 Fox Point Clay Bluffs

CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	(NONE)	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	(NONE)	■	●	(NONE)
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO BE ACQUIRED	(NONE)	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED. TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	●	◆

RECOMMENDED OWNERSHIP KEY:

S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP
 RECOMMENDED

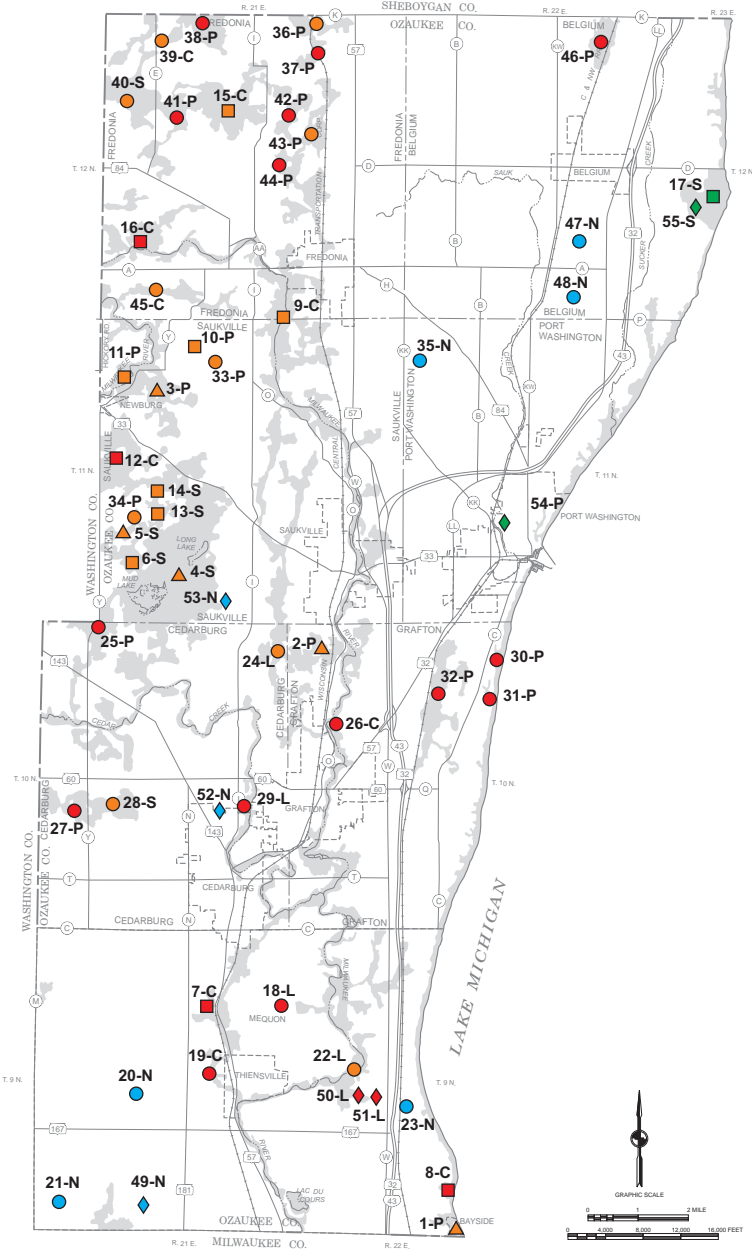
■ PRIMARY ENVIRONMENTAL CORRIDORS



Source: Wisconsin Department of Natural Resources and SEWRPC.

Map 4

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN OZAUKEE COUNTY



Reference Key to Map 4

- 1 Fairy Chasm State Natural Area
- 2 Kurtz Woods State Natural Area
- 3 Riveredge Creek and Ephemeral Pond State Natural Area
- 4 Cedarburg Bog State Natural Area
- 5 Sapa Spruce Bog State Natural Area
- 6 Cedarburg Beech Woods State Natural Area
- 7 Pigeon Creek Low and Mesic Woods
- 8 Donges Bay Gorge
- 9 Milwaukee River Mesic Woods
- 10 Ducks Limited Bog
- 11 Riveredge Mesic Woods
- 12 Kinnamon Conifer Swamp
- 13 South Conifer Swamp
- 14 Max's Bog
- 15 Huiras Lake Woods and Bog
- 16 Janik's Woods
- 17 Harrington Beach Lacustrine Forest
- 18 Highland Road Woods
- 19 Pigeon Creek Maple Woods
- 20 Solar Heights Low Woods
- 21 Triple Woods
- 22 Ville du Parc Riverine Forest
- 23 Mequon Wetland
- 24 Mole Creek Swamp
- 25 Cedar-Sauk Low Woods
- 26 Grafton Woods
- 27 Sherman Road Woods
- 28 Five Corners Swamp
- 29 Cedar Creek Forest
- 30 Cedar Heights Gorge
- 31 Lions Den Gorge
- 32 Ulaow Lowland Forest
- 33 Hansen's Lake Wetland
- 34 Knollwood Road Bog
- 35 Hawthorn Drive Forest
- 36 Spring Lake Marsh
- 37 Spring Lake Beech Forest
- 38 County Line Low Woods
- 39 Beekeeper Bog
- 40 Department of Natural Resources Lowlands
- 41 Pioneer Road Lowlands
- 42 Cedar Valley Swamp
- 43 Evergreen Road Bog
- 44 Kohler Road Woods
- 45 Waubeka Low Woods
- 46 Cedar Grove Swamp
- 47 Belgium Swamp—North
- 48 Belgium Swamp—South
- 49 Stauss Woods
- 50 Pecard Sedge Meadow
- 51 Eastbrook Road Woods
- 52 Cedarburg Woods—West
- 53 Cedar-Sauk Upland Woods
- 54 Sauk Creek Nature Preserve
- 55 Harrington Beach State Park Old Fields

CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	(NONE)	■	(NONE)	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	(NONE)
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO ACQUIRED	(NONE)	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED, TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	●	◆

RECOMMENDED OWNERSHIP KEY:

S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP RECOMMENDED

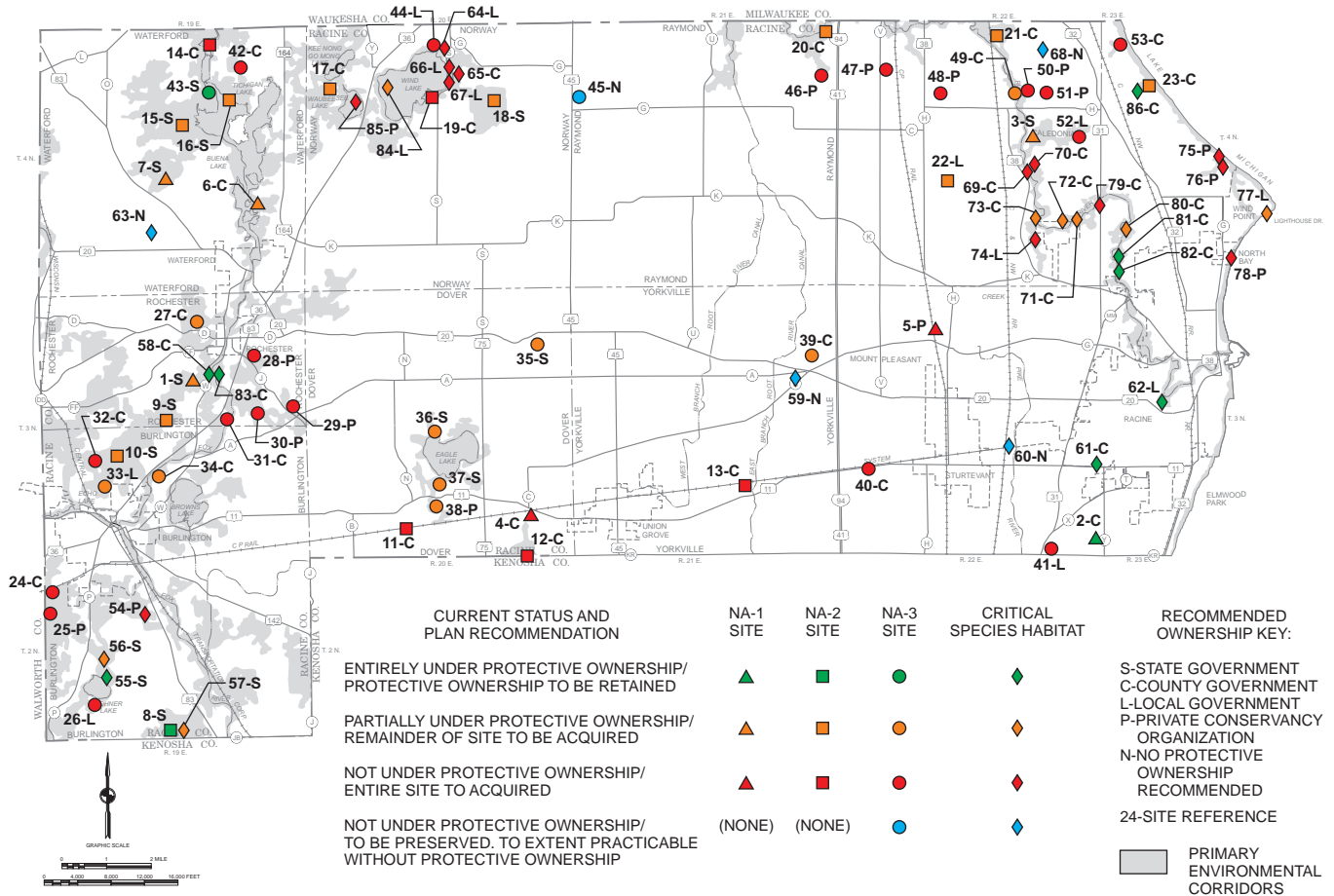
24-SITE REFERENCE NUMBER

PRIMARY ENVIRONMENTAL CORRIDORS

Source: Wisconsin Department of Natural Resources and SEWRPC.

Map 5

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN RACINE COUNTY



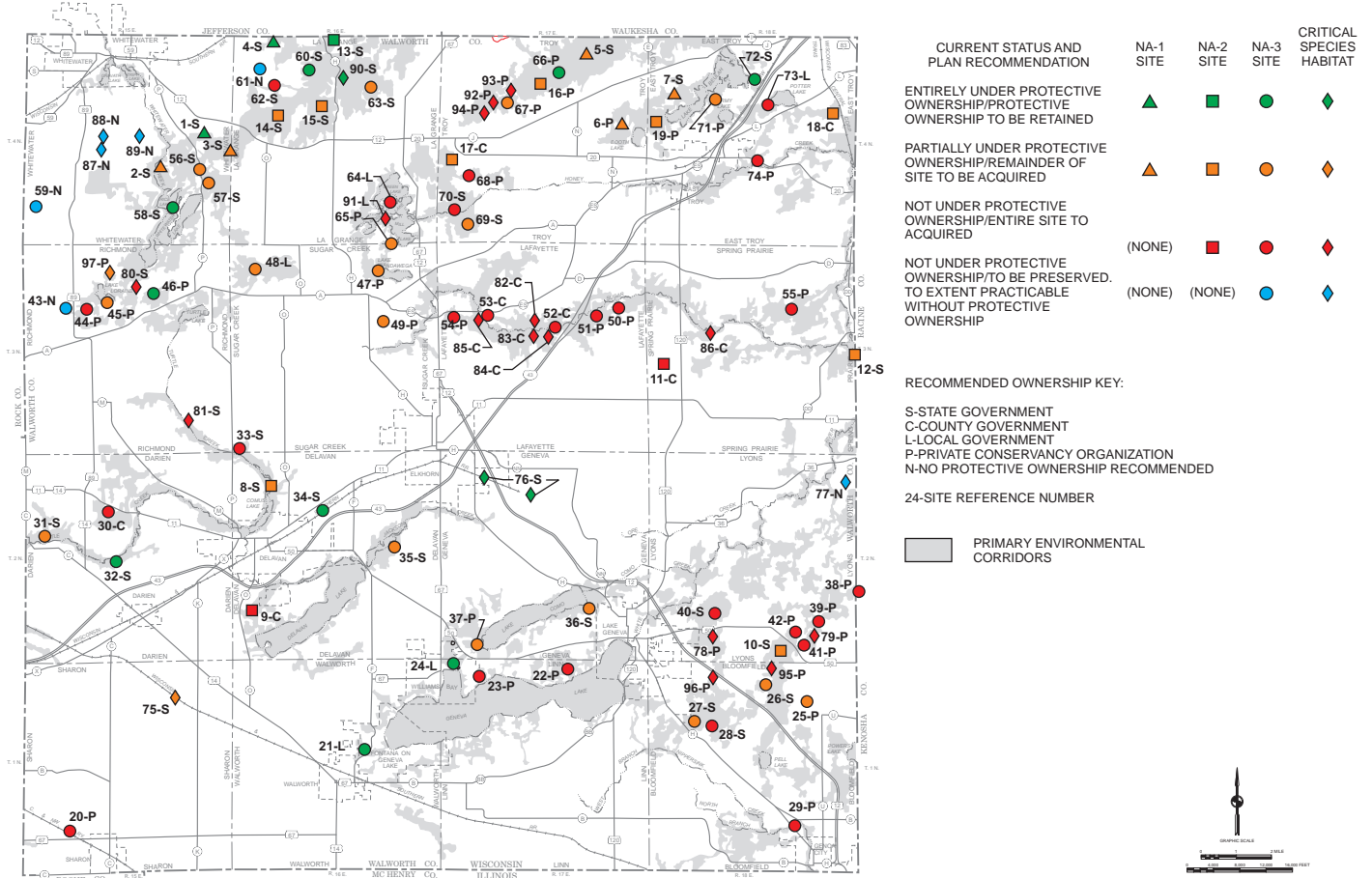
Reference Key to Map 5

- | | | |
|--|--|--|
| 1 Cherry Lake Sedge Meadow State Natural Area | 30 Eagle Creek Woods | 59 Ives Grove Prairie Remnant |
| 2 Sanders Park Hardwoods State Natural Area | 31 Fox River Prairie | 60 Waxdale Railroad Prairie |
| 3 Renak-Polak Maple-Beech Woods State Natural Area | 32 Honey Lake Leatherleaf Bog | 61 Pritchard Park Woods |
| 4 Kansasville Railroad Prairie | 33 Wehmhoff Park Upland Woods and Wetlands | 62 Washington Park Woods |
| 5 Franksville Railroad Prairie | 34 Fox River Riverine Forest | 63 Maple Road Gravel Pit |
| 6 Elm Island Bog Island Oak Woods | 35 Dover Wildlife Area Wetlands | 64 Erwin Wetlands |
| 7 Tichigan Fen | 36 Church Road Lowlands | 65 Patzke Fen |
| 8 Karcher Springs State Natural Area | 37 Eagle Lake Wetlands | 66 Krieser Fen |
| 9 Brock Lake Fen | 38 Vandenoorn Road Marsh | 67 Landon Wetland |
| 10 Leda Lake Fen-Meadow | 39 Ives Grove Woods | 68 Sherwood Property |
| 11 Rosewood Railroad Prairie | 40 Sylvania Railroad Prairie | 69 River Meadow Woods |
| 12 Schroeder Road Marsh | 41 Campbell Woods | 70 Forked Aster Site |
| 13 Union Grove Railroad Prairie | 42 Van Valin Woods | 71 Caledonia Sanitary Sewer Right-of Way |
| 14 Norris Marsh and Slough | 43 Tichigan Wet Prairie | 72 Caledonia Site South |
| 15 Tichigan Marsh | 44 Wind Lake Wet Meadow | 73 Root River Bluff |
| 16 Tichigan Wetlands and Low Woods | 45 Six Mile Road Swamp | 74 Hoods Creek Swamp |
| 17 Waubeesee Oak Woods and Tamarack Relict | 46 Kimmel Woods | 75 Breakers Woods |
| 18 Wind Lake Tamarack Swamp | 47 Seven Mile Road Woods | 76 Dominican Ravine |
| 19 Wind Lake Shrub-Fen | 48 Zirbes Woods | 77 Wind Point |
| 20 County Line Riverine Woods | 49 Caledonia Low Woods | 78 North Bay Ravine and Beach |
| 21 Hunts Woods | 50 Foley Road Woods—West | 79 Four Mile Road Woods |
| 22 Caledonia Wildlife Area | 51 Foley Road Woods—East | 80 Caledonia Low Woods |
| 23 Cliffside Park Woods and Clay Banks | 52 Tabor Woods | 81 River Bend Upland Woods |
| 24 Burlington Railroad Prairie | 53 Power Plant Ravine Woods | 82 Root River Strip Woods |
| 25 Burlington Hills Woods | 54 Burlington Crevasse Filling | 83 Ela Park Woods |
| 26 Bohner Lake Lowlands | 55 Margis Wildlife Area | 84 Wind Lake |
| 27 Wadewitz Woods | 56 Ranger Mac Fen | 85 Waubeesee Lake |
| 28 Rowntree Road Woods | 57 Karcher Sedge-Carr | 86 Cliffside Park Old Field |
| 29 English Settlement Prairie | 58 Ela Park Dry Prairie | |

Source: Wisconsin Department of Natural Resources and SEWRPC.

Map 6

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WALWORTH COUNTY



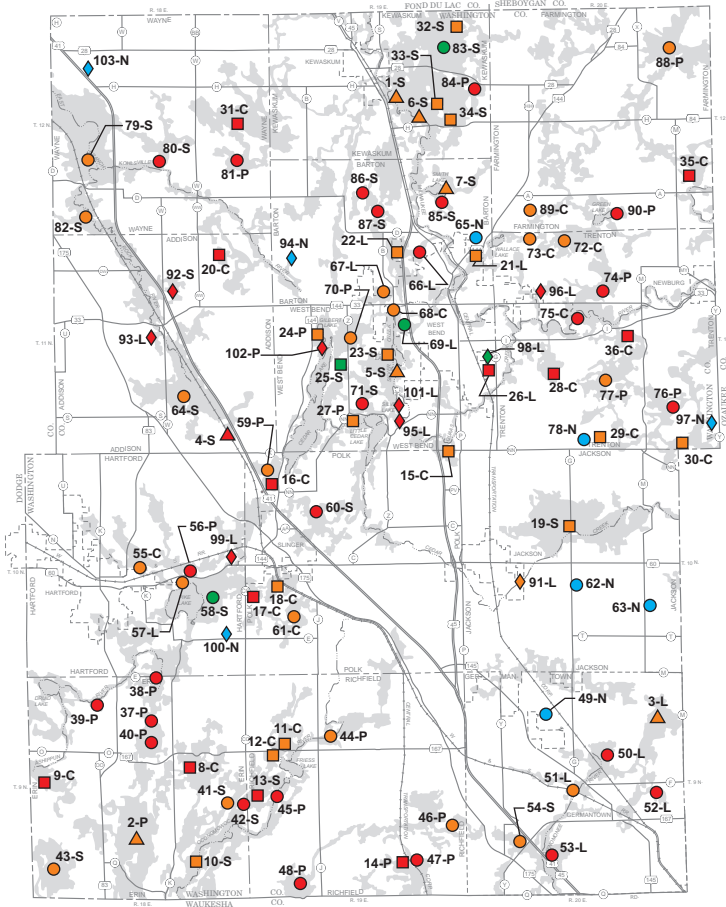
Reference Key to Map 6

- | | | |
|--|--|-------------------------------------|
| 1 Bluff Creek Fens | 33 CTH P Sedge Meadow | 65 Baywood Road Sedge Meadow |
| 2 Clover Valley Fen State Natural Area | 34 Marsh Road Railroad Prairie | 66 George Williams Sedge Meadow |
| 3 Bluff Creek Woods | 35 Lake Lawn Wetland Complex | 67 Doyles Lake Wetlands |
| 4 Young Prairie State Natural Area | 36 Warbler Trail Wetlands | 68 Lein's Road Fen |
| 5 Lulu Lake and Eagle Spring Lake Wetland Complex and Adjacent Uplands | 37 Lake Como Wetlands | 69 Troy Fen |
| 6 Pickerel Lake Fen State Natural Area | 38 Tri-County Tamarack Swamp | 70 Honey Creek Fen |
| 7 Beulah Bog State Natural Area | 39 Peterson Fen | 71 Army Lake Lowlands |
| 8 Comus Lake Wetland Complex | 40 Lake Geneva Tamarack Relict | 72 East Troy Tamaracks |
| 9 Delavan Prairie-Fen | 41 Ivanhoe Creek Fen | 73 Potter Lake Tamaracks |
| 10 Lake Ivanhoe Fen and Sedge Meadow | 42 Cranberry Road Bog | 74 Hilburn Sedge Meadow |
| 11 Spring Prairie Fen | 43 Lake Loraine Woods--West | 75 Railroad Lowland |
| 12 Honey Lake Marsh and Sedge Meadow | 44 Lake Loraine Woods--East | 76 Elkhorn Railroad Prairie Remnant |
| 13 Kestol Dry Prairie | 45 Lake Loraine Marsh | 77 White River Railroad Prairie |
| 14 LaGrange Oak Woods | 46 Lake No. 10 | 78 Radio Station Wetland |
| 15 Muir Oak Woods and Duffin Road Fen | 47 Lake Wandawega Marsh | 79 Peterson Property |
| 16 Upper Mukwonago River Wetland Complex | 48 North Lake Marsh | 80 Lake No. 10 Open Woods |
| 17 Adams Lake Fen and Marsh | 49 Silver Lake | 81 Island Road Shrub-Carr |
| 18 Thiede Road Tamarack Swamp | 50 Granzeau Woods | 82 Sugar Creek Woods--North |
| 19 Swan Lake Wetland Complex | 51 Pallottine Maple Woods | 83 Sugar Creek Wet Woods |
| 20 Salt Box Road Railroad Prairie | 52 Sugar Creek Fens, Springs, and Sedge Meadow | 84 Sugar Creek Woods--South |
| 21 Fontana Prairie and Fen | 53 Sugar Creek Wetlands | 85 Abells Corners Fen |
| 22 Wychwood | 54 Abells Corners Sedge Meadow and Tamarack Relict | 86 Hargraves Road Sedge Meadow |
| 23 Peninsula Woods | 55 Spring Prairie Lowlands | 87 Mills Road Prairie |
| 24 Williams Bay Lowlands | 56 Lone Tree Trail Oak Woods | 88 Anderson Road |
| 25 Hafs Road Marsh | 57 Whitewater Oak Woods | 89 Island Road Prairie |
| 26 Lake Ivanhoe Sedge Meadow | 58 Rice Lake Dry Prairie | 90 LaGrange Campground |
| 27 Bloomfield Sedge Meadow and Tamarack Relict | 59 Rock Shrub-Fen | 91 Lauderdale Lakes Woods |
| 28 Pell Lake Railroad Prairie | 60 Duffin Road Prairie | 92 Harmony Hills Savanna |
| 29 Bloomfield Prairie | 61 Big Spring Road Prairie | 93 Doyles Lake Prairies |
| 30 Darrien Oak Woods | 62 Connelly Fen] | 94 Camp Timberlee |
| 31 Turtle Creek Sedge Meadow and Fen | 63 Nordic Trail Oak Woods | 95 Swift Lake Wetland |
| 32 Creek Road Fen | 64 Island Woods | 96 Section Five Marsh and Pond |
| | | 97 Unnamed Wetland |

Source: Wisconsin Department of Natural Resources and SEWRPC.

Map 7

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WASHINGTON COUNTY



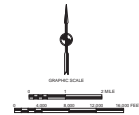
CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/PROTECTIVE OWNERSHIP TO BE RETAINED	(NONE)	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ENTIRE SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/TO BE PRESERVED TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	●	◆

RECOMMENDED OWNERSHIP KEY:

- S-STATE GOVERNMENT
- C-COUNTY GOVERNMENT
- L-LOCAL GOVERNMENT
- P-PRIVATE CONSERVANCY ORGANIZATION
- N-NO PROTECTIVE OWNERSHIP RECOMMENDED

24-SITE REFERENCE NUMBER

PRIMARY ENVIRONMENTAL CORRIDORS



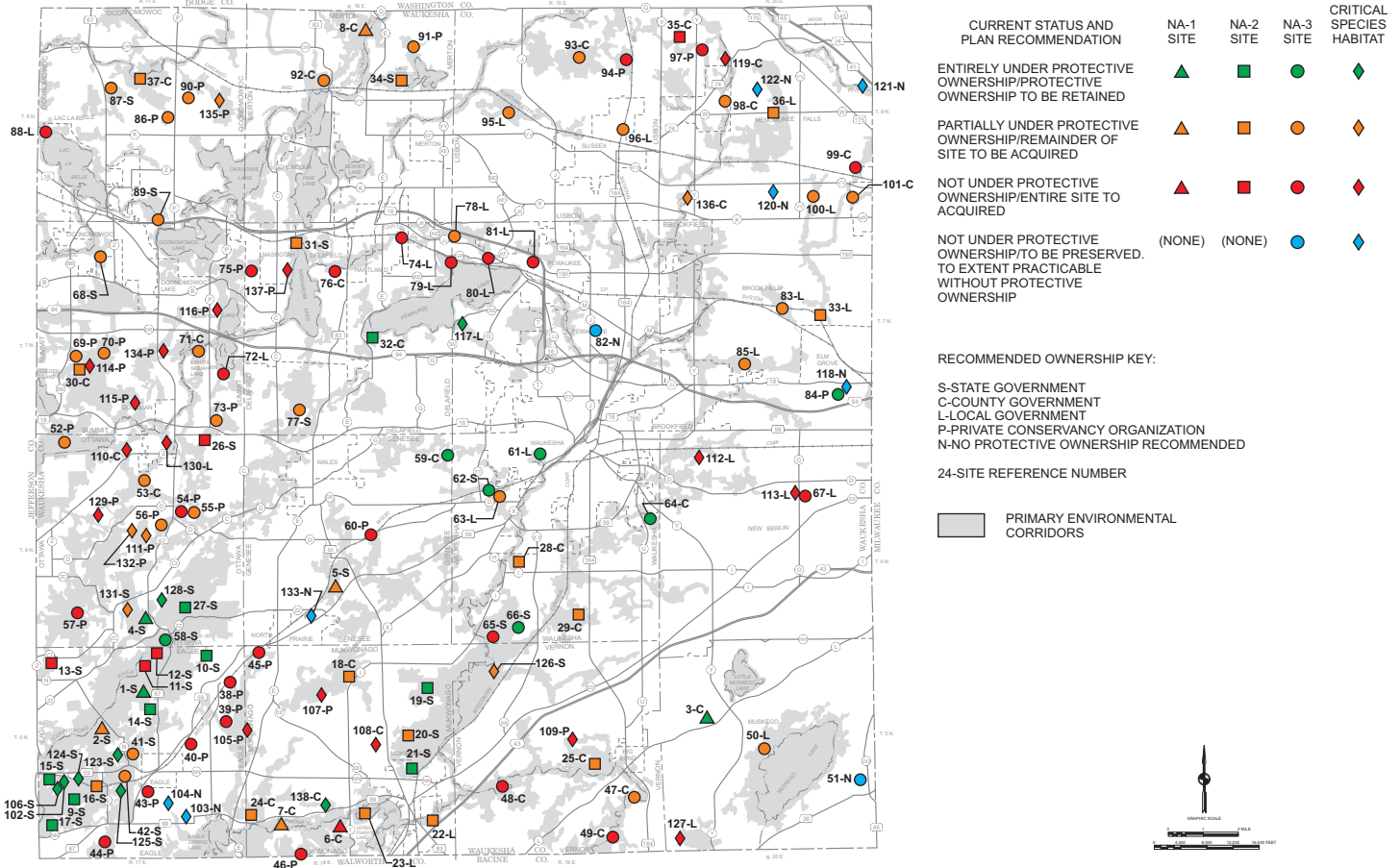
Reference Key to Map 7

- | | | |
|--|------------------------------------|------------------------------------|
| 1 Kewaskum Maple-Oak Woods State Natural Area | 35 North Branch Woods | 69 University Fen |
| 2 Murphy Lake-McConville Lake Wetland Complex | 36 Myra Wetlands | 70 CTH Z Upland Woods and Wetlands |
| 3 Germantown Swamp | 37 Hults Bog and Marsh | 71 Ziegler Woods |
| 4 Aurora Road Fen | 38 CTH E Wetlands | 72 Sandy Knoll Swamp |
| 5 Paradise Lake Fen | 39 Erin Sedge Meadow | 73 Sandy Knoll Wetlands |
| 6 Milwaukee River Floodplain Forest State Natural Area | 40 Thompson Swamp | 74 Poplar Road Lacustrine Forest |
| 7 Smith Lake and Wetlands | 41 Donegal Road Woods | 75 Fellenz Hardwood Swamp |
| 8 Holy Hill Woods | 42 St. Augustine Road Sedge Meadow | 76 Paradise Drive Tamarack Swamp |
| 9 Toland Swamp | 43 Mason Creek Swamp | 77 Camp Wowitan Wetlands |
| 10 Loew's Lake Wetland Complex | 44 CTH J Swamp | 78 Schalla Tamarack Swamp |
| 11 Daniel Boone Bogs | 45 Hubertus Road Sedge Meadow | 79 Theresa Swamp |
| 12 Glacier Hills Park Bogs and Upland Woods | 46 Amy Bell Lake and Lowlands | 80 Wayne Creek Swamp |
| 13 Friess Lake Tamarack Swamp | 47 Colgate Shrub-Carr | 81 Stockcar Swamp |
| 14 Colgate Fen-Meadow | 48 Lake Five Woods | 82 Rock River Marsh |
| 15 Mud Lake Meadow | 49 Faber-Pribyl Woods | 83 Kettle Moraine Drive Woods |
| 16 Big Cedar Lake Bog | 50 Hoelz Swamp | 84 STH 28 Woods |
| 17 Mud Lake Upland Woods | 51 Lake Park Swamp | 85 Smith Lake Swamp |
| 18 Mud Lake Meadow | 52 Schoessow Woods | 86 Lange Hardwoods |
| 19 Jackson Swamp | 53 USH 41 Swamp | 87 Wildwood Hardwood Swamp |
| 20 St. Anthony Beech Woods | 54 Kleinman Swamp | 88 Milwaukee River Swamp |
| 21 Lac Lawrann Conservancy Upland Woods and Wetlands | 55 Rubicon Lowlands | 89 Lizard Mound Woods |
| 22 Blue Hills Woods | 56 STH 60 Swamp | 90 Green Lake Bog |
| 23 Silverbrook Lake Woods | 57 Pike Lake Sedge Meadow | 91 Jackson Woods |
| 24 Gilbert Lake Tamarack Swamp | 58 Pike Lake Woods | 92 St. Anthony Maple Woods |
| 25 Hacker Road Bog | 59 Mueller Woods | 93 Doll Woods |
| 26 Muth Woods | 60 Slinger Upland Woods | 94 Riesch Woods |
| 27 Little Cedar Lake Wetlands | 61 Heritage Trails Bog | 95 Silver Lake Swamp |
| 28 Schoenbeck Woods | 62 Kowalske Swamp | 96 Cameron Property |
| 29 Bellin Bog | 63 Sherman Road Swamp | 97 Fechtters Woods |
| 30 Reinartz Cedar Swamp | 64 Allenton Swamp | 98 High School Woods |
| 31 Wayne Swamp | 65 Newark Road Wetland | 99 Unnamed wetland |
| 32 Kettle Moraine Drive Bog | 66 Sunset Park Wetlands | 100 Unnamed wetland |
| 33 Glacial Trail Forest | 67 Albecker Park Wetlands | 101 Silver Lake |
| 34 St. Michael's Woods | 68 Silver Creek Marsh | 102 Gilbert Lake |
| | | 103 Unnamed wetland |

Source: Wisconsin Department of Natural Resources and SEWRPC.

Map 8

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WAUKESHA COUNTY



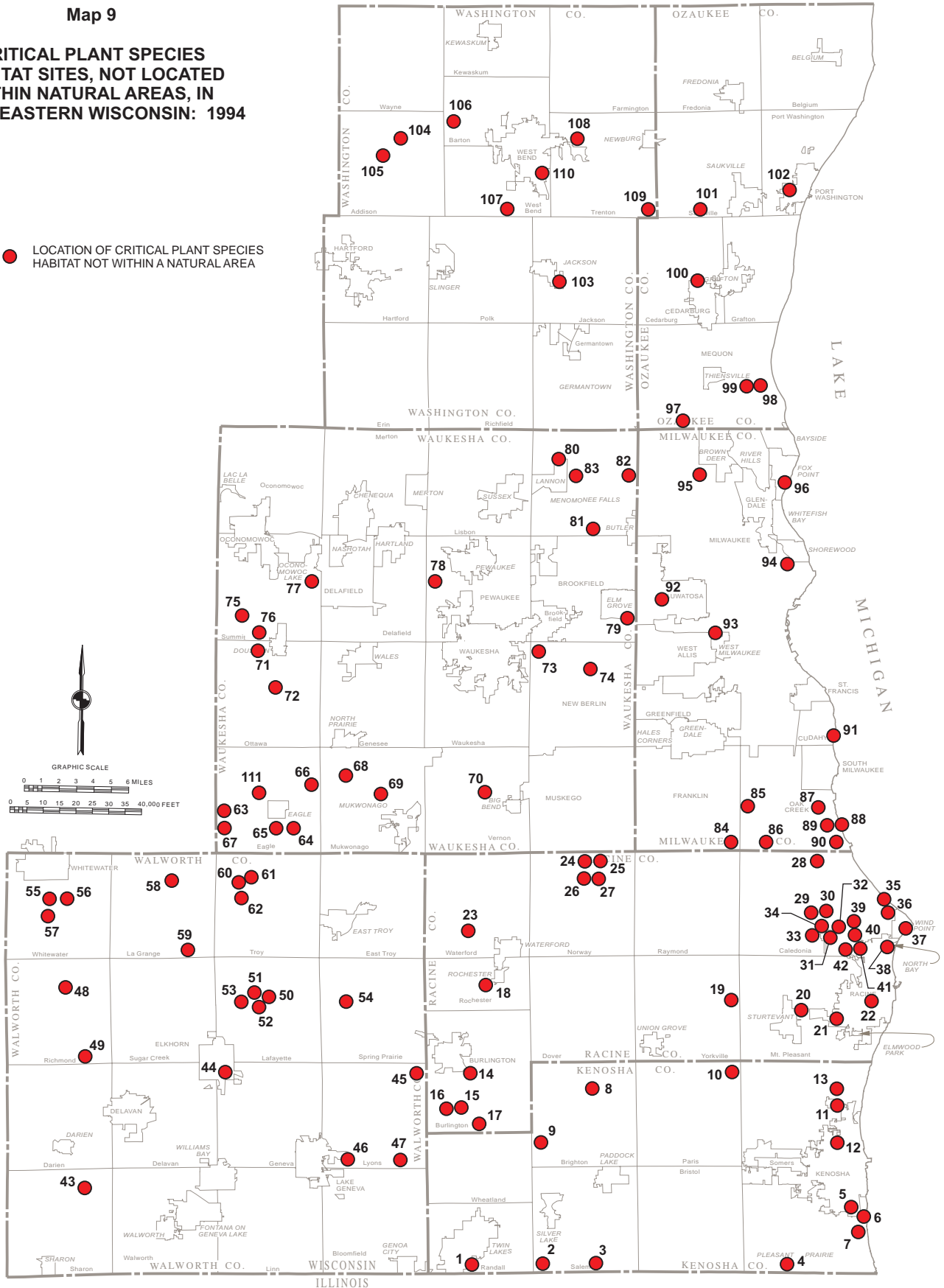
Reference Key to Map 8

- | | | | |
|--|---------------------------------------|---|---------------------------------|
| 1 Kettle Moraine Fen and Low Prairie State Natural Area | 30 Genesee Lake Road Bog | 65 Fox River Woods | 102 Shelter Two Ridge |
| 2 Scuppernong Prairie State Natural Area | 31 Nagawicka Lake Bog and Oak Woods | 66 Vernon Mesic Prairie | 103 Eagle Dump Oak Opening |
| 3 Muskego Park Hardwoods State Natural Area | 32 Pewaukee Lake Access Fen | 67 New Berlin Woods | 104 Doman Prairie Remnant |
| 4 Ottawa Lake Fen State Natural Area | 33 Zion Woods | 68 Oconomowoc Swamp | 105 Holtz Oak Opening |
| 5 Genesee Oak Opening and Yatzeck's Fen State Natural Area | 34 Lake Keesus Fen-Meadow | 69 Crossroads Bog | 106 Mounded Fen |
| 6 Mukwonago Fen, Sedge Meadow, and Tamarack Relict | 35 Held Maple Woods | 70 Laura Lake Swamp | 107 Spring Lake Woods |
| 7 Upper Mukwonago River | 36 Menomonee Falls "Tamarack" Swamp | 71 Bark River Marsh River Marsh | 108 Romanowski Fen |
| 8 Monches Woods | 37 Ashippun River Lowlands | 72 Breens Bay Sedge Meadow | 109 Pheasant Hill Woods |
| 9 Eagle Oak Opening and Dry Prairies | 38 Road X Railroad Prairie | 73 Sawyer Road Sedge Meadow | 110 Utica Lake Tamaracks |
| 10 Ulrickson Road Cedar Glade | 39 Jericho Creek Fen | 74 Hartland Railroad Prairie | 111 Lurvy Tamaracks |
| 11 Eagle Shrub-Fen | 40 Mailman Road Railroad Prairie | 75 Nashotah House Woods | 112 Delopst Meadow |
| 12 Eagle Fen and Spring | 41 Paradise Springs Woods | 76 Bark River School Sedge Meadow | 113 Kostello Property |
| 13 Beaver Dam Lake | 42 STH 59 Oak Woods and Prairies | 77 Lapham Peak Woods | 114 Genesee Lake Road Tamaracks |
| 14 Kettle Moraine Limestone Outcrop | 43 Eagle Centre (Haffner) Oak Opening | 78 Capitol Drive Sedge Meadow and Wet Prairie | 115 Dousman Road Low Woods |
| 15 Eagle Railroad Prairie | 44 Malek Wetland | 79 Pewaukee Lake Wetland | 116 Massaro Woods |
| 16 Eagle Dry Prairie and Grotjans Fen | 45 North Prairie Railroad Prairie | 80 Pewaukee Sedge Meadow | 117 Meadowbrook Prairie |
| 17 Fur Farm Pond | 46 Mukwonago Low Woods | 81 Pewaukee Park Sedge Meadow | 118 Elm Grove Road Pond |
| 18 Spring Lake Sedge Meadow and Fens | 47 River Oaks Woods and Wetlands | 82 Busse Woods | 119 Ranch Woods |
| 19 Vernon Tamarack-Fen | 48 Porter Low Woods | 83 Wirth Swamp | 120 Glass-Glick Woods |
| 20 Vernon Prairie-Fen | 49 Norris Oak Woods and Wetlands | 84 Bishops Woods | 121 Heritage Woods |
| 21 Vernon Fen | 50 Muskego Lake Marsh | 85 Brookfield Swamp | 122 Rozik Woods |
| 22 Lower Mukwonago River | 51 Luther Parker Cemetery Prairie | 86 Meadowbrook School Bog | 123 Paradise Springs Brook |
| 23 Phantom Lake Wetlands | 52 Perkins Property | 87 Raasch Tamarack Swamp | 124 Headquarters Grasslands |
| 24 Brown Lake and Sedge Meadow | 53 Nelson Oak Woods and Lowlands | 88 Lac La Belle Lowlands | 125 Old World Wisconsin Marsh |
| 25 Big Bend Wet-Mesic Woods | 54 Casper Creek Sedge Meadow | 89 Oconomowoc River Marsh | 126 Vernon Marsh |
| 26 Henrietta Lake Bog | 55 Ottawa Limestone Outcrop | 90 Oconomowoc Sedge Meadow | 127 Denoon Lake |
| 27 Ottawa Oak Woods and Dry Prairies | 56 Larkin Lake | 91 Camp Whitcomb Lowland | 128 Dog Trial Area |
| 28 Fosters Woods | 57 CTH ZC Lowlands | 92 Chenequa Wetland Complex | 129 School Section Lake |
| 29 Falk Fen and Woods' | 58 Scuppernong Springs Dry Prairie | 93 Lisbon Low Woods | 130 Dousman Mill Pond |
| | 59 Brown's Fen | 94 Sussex Swamp | 131 Unnamed shrub-grassland |
| | 60 CTH D Railroad Prairie | 95 Thousand Oaks Tamarack Relict | 132 Unnamed low woods-thicket |
| | 61 Fruits Pond Fen | 96 Coolings Sedge Meadow | 133 Unnamed wetland |
| | 62 Pebble Creek Railroad Prairie | 97 Peters Woods | 134 Duck Lake |
| | 63 Pebble Creek Wetlands | 98 Zuba Woods | 135 Stonebank Tamarack Relict |
| | 64 Minooka Park Woods | 99 Menomonee River Swamp | 136 Fox River Woods |
| | | 100 Theater Swamp | 137 Nagawicka Lake |
| | | 101 Clarks Woods | 138 Mukwonago Park Oak Opening |

Map 9

**CRITICAL PLANT SPECIES
HABITAT SITES, NOT LOCATED
WITHIN NATURAL AREAS, IN
SOUTHEASTERN WISCONSIN: 1994**

● LOCATION OF CRITICAL PLANT SPECIES
HABITAT NOT WITHIN A NATURAL AREA

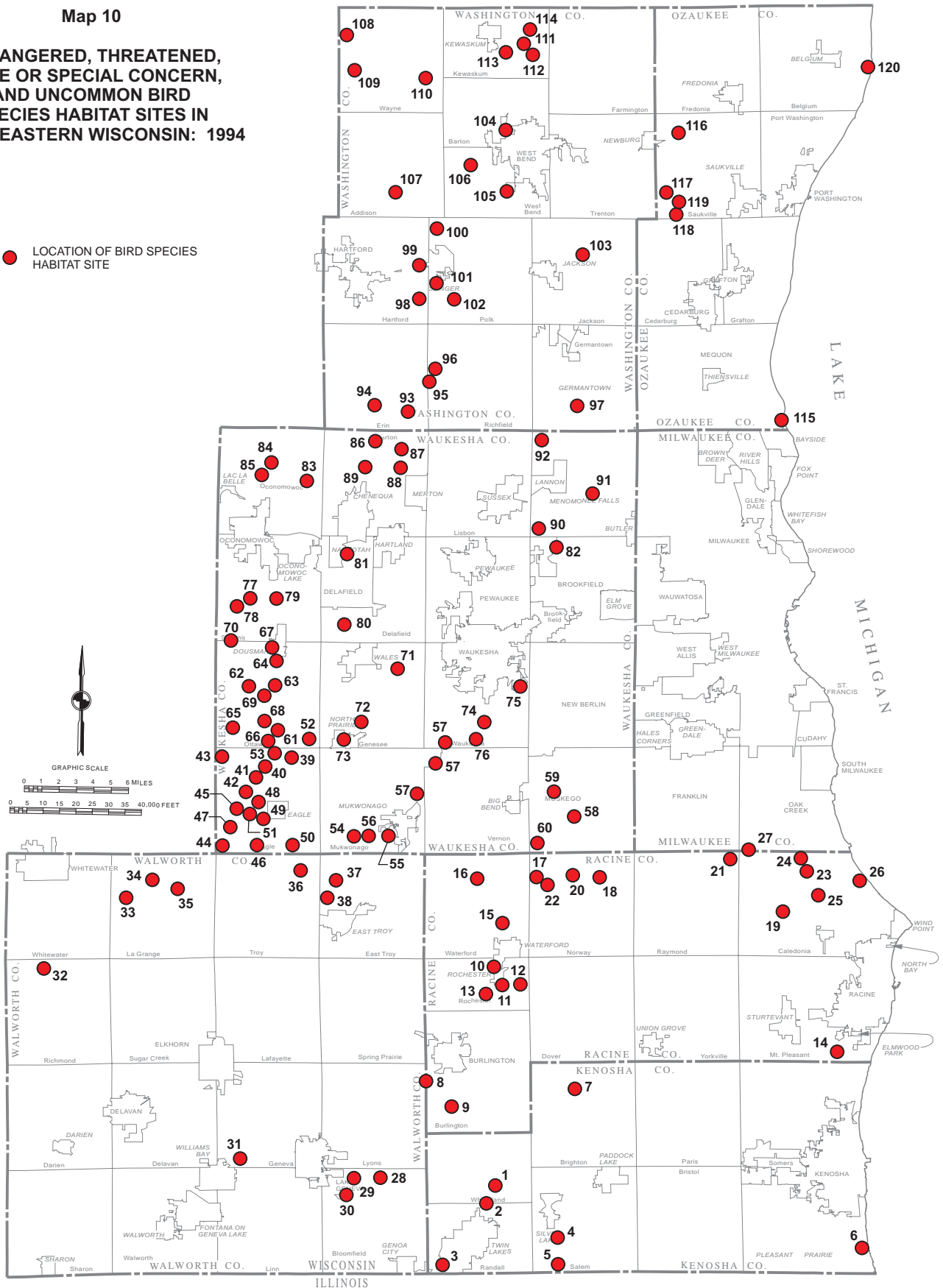


Source: SEWRPC.

Map 10

**ENDANGERED, THREATENED,
RARE OR SPECIAL CONCERN,
AND UNCOMMON BIRD
SPECIES HABITAT SITES IN
SOUTHEASTERN WISCONSIN: 1994**

● LOCATION OF BIRD SPECIES HABITAT SITE



Source: SEWRPC.

Critical Mammal Species Habitats

The original study identified a single critical mammal species habitat site, consisting of a portion of Mukwonago Park and adjacent land in Waukesha County--a site which provided and continues to provide important habitat for Franklin's ground squirrel, a rare mammal species in Wisconsin.

Critical Herptile Species Habitat

The original study identified general range areas which provided and continues to provide habitat capable of supporting endangered, threatened, or rare amphibians and reptiles (see Map 11).

Significant Aquatic Areas

The original study also identified surface waters which are vital to the support of endangered, threatened, or rare fish and mussel species (see Maps 12 and 13). Specific aquatic habitat plan recommendations were not formulated under the natural areas planning effort since such habitats and their species are under the direct management authority of the Wisconsin Department of Natural Resources. The plan recommended that the Department implement management and regulatory efforts necessary to ensure the long-term viability of the aquatic resource habitats and critical aquatic species within the Region. The study findings were intended to be used by the Department and other concerned agencies for consideration in the development of management plans.

Significant Geological Sites

Under the original study, an inventory of scientifically and historically important bedrock geologic sites was conducted by experienced geologists well acquainted with the bedrock geology and paleontology of eastern Wisconsin and the history of the nonmetallic-mineral-mining industry in the Region. Based upon this work a total of 86 significant geological sites, including 57 bedrock geological sites and 29 sites containing glacial features, were identified (see Map 14). The sites were ranked using a classification system similar to that used in the ranking of designated natural areas. Thus, 23 designated significant geological sites, or 27 percent of the total of 86 sites, were classified as geological areas of statewide or greater significance, or "GA-1" sites; 28 sites, or 32 percent, were classified as geological areas of countywide or regional significance, or "GA-2" sites; and 35 sites, or 41 percent, were classified as geological areas of local significance, or "GA-3" sites.

Significant Archaeological Sites

Fourteen archaeological sites in the Region had been evaluated and found to be of significance sufficient for listing on the National Register of Historic Places, and were so listed in the original study (see Map 15). Files of the State Historical Society of Wisconsin indicated that more than 2,000 other historic and prehistoric archaeological sites had been identified in the Region. These sites range from occurrences of single arrowheads to campsites and village sites. These sites have not been listed on the National Register of Historic Places either because they were primarily of local significance or because they had not yet been thoroughly studied and evaluated.



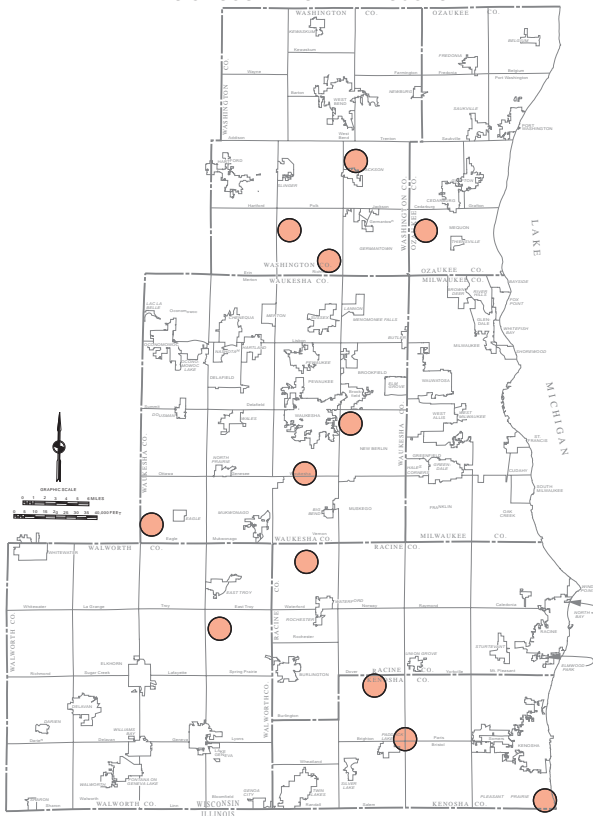
The meadowhawk (*Sympetrum* sp.) belongs to a group of dragonflies known as Skimmers. These colorful insects lay their eggs in water. After hatching, the aquatic nymph stage, called a naiad, lives among the debris at the bottom of lakes and ponds. The above photograph was taken near Rainbow Lake at the Lac Lawrann Conservancy in the City of West Bend.

Under the original study, specific aquatic habitat plan recommendations were not formulated since such habitats and species they support are under the direct authority of the Wisconsin Department of Natural Resources.

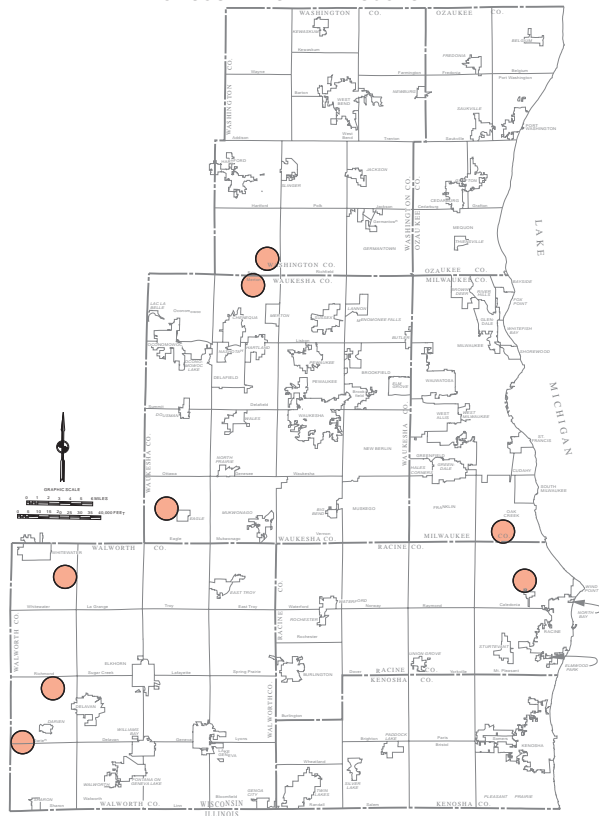
Source: SEWRPC.

HERPTILE RANGE AREAS IN SOUTHEASTERN WISCONSIN

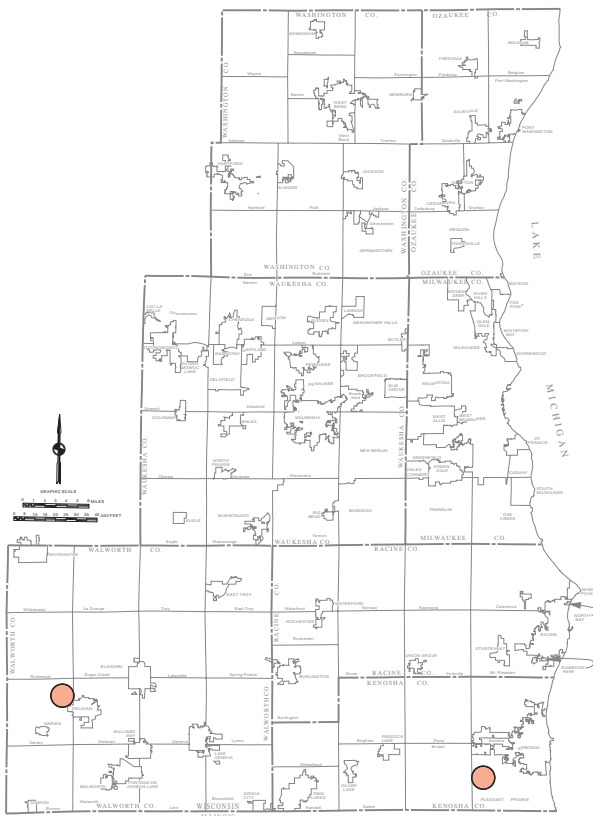
BLANCHARD'S CRICKET FROG RANGE AREAS OF SOUTHEASTERN WISCONSIN



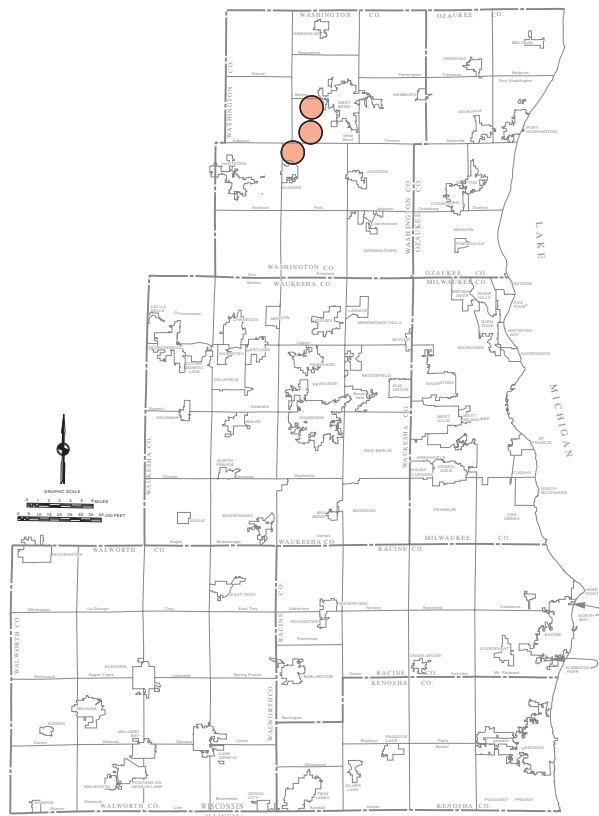
QUEEN SNAKE RANGE AREAS OF SOUTHEASTERN WISCONSIN



EASTERN MASSASAUGA RANGE AREAS OF SOUTHEASTERN WISCONSIN

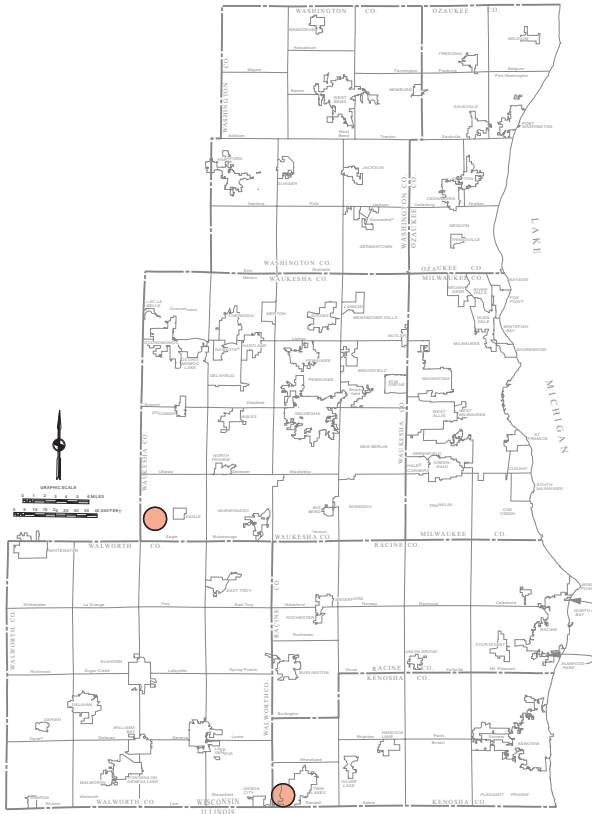


NORTHERN RIBBON SNAKE RANGE AREAS OF SOUTHEASTERN WISCONSIN

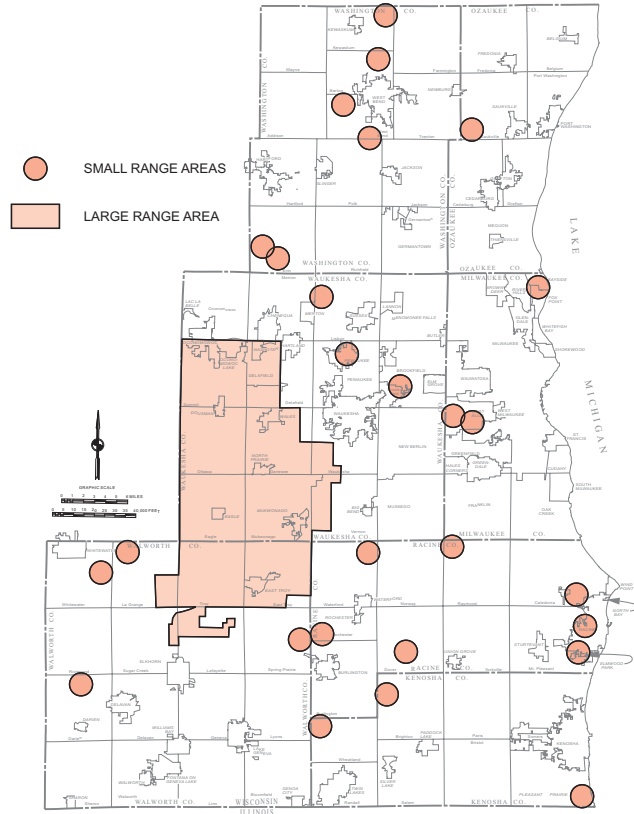


Map 11 (continued)

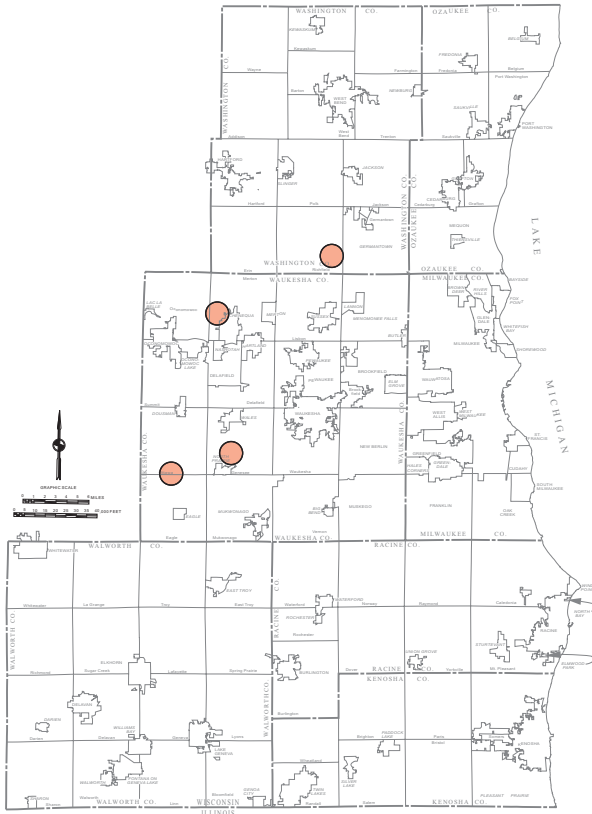
**WESTERN RIBBON SNAKE RANGE
AREAS OF SOUTHEASTERN WISCONSIN**



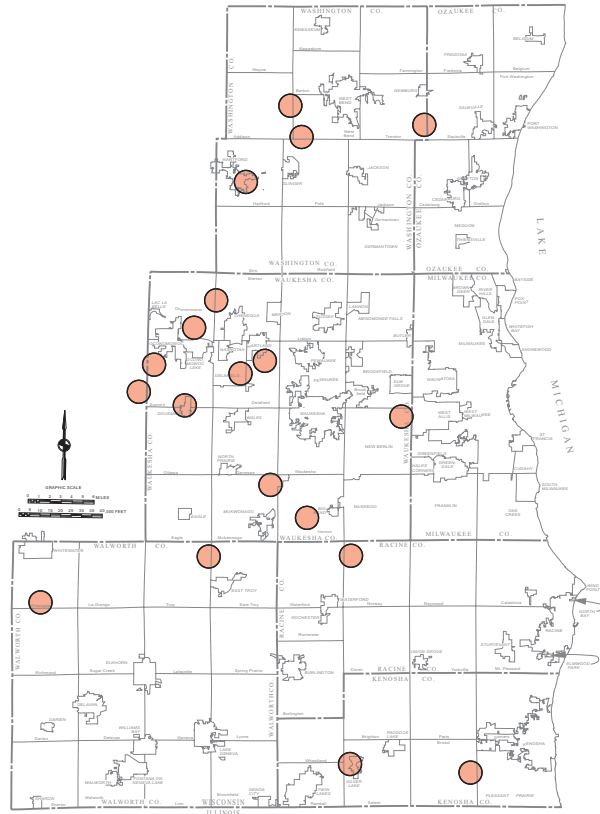
**BLANDING'S TURTLE RANGE
AREAS OF SOUTHEASTERN WISCONSIN**



**PICKEREL FROG RANGE
AREAS OF SOUTHEASTERN WISCONSIN**

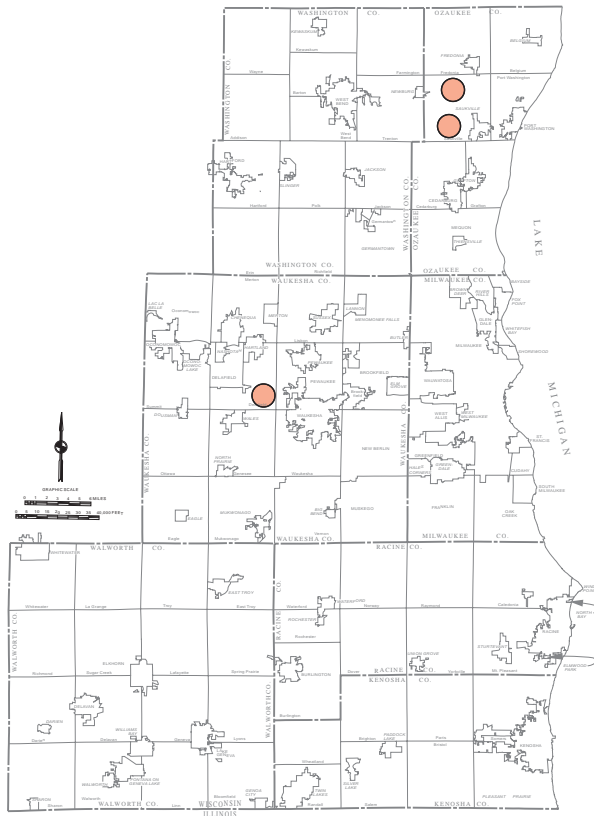


**BULLFROG RANGE
AREAS OF SOUTHEASTERN WISCONSIN**

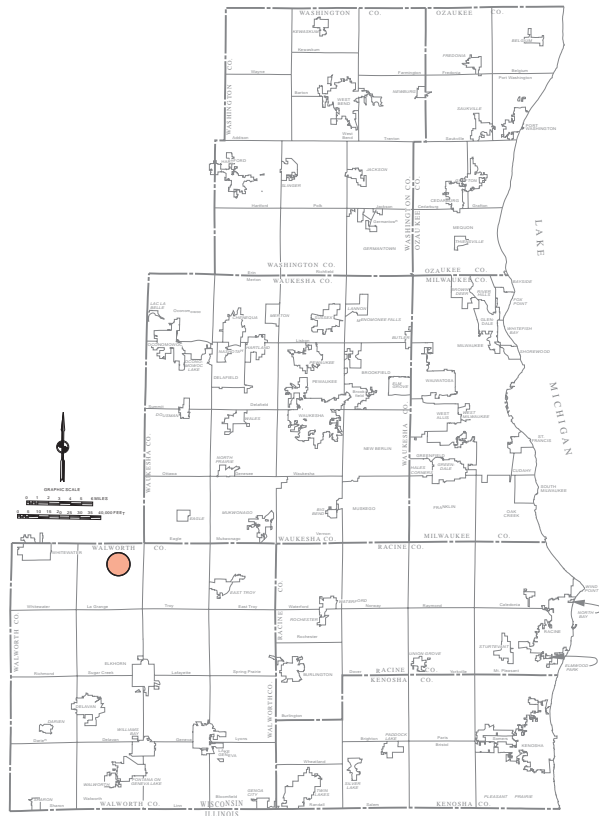


Map 11 (continued)

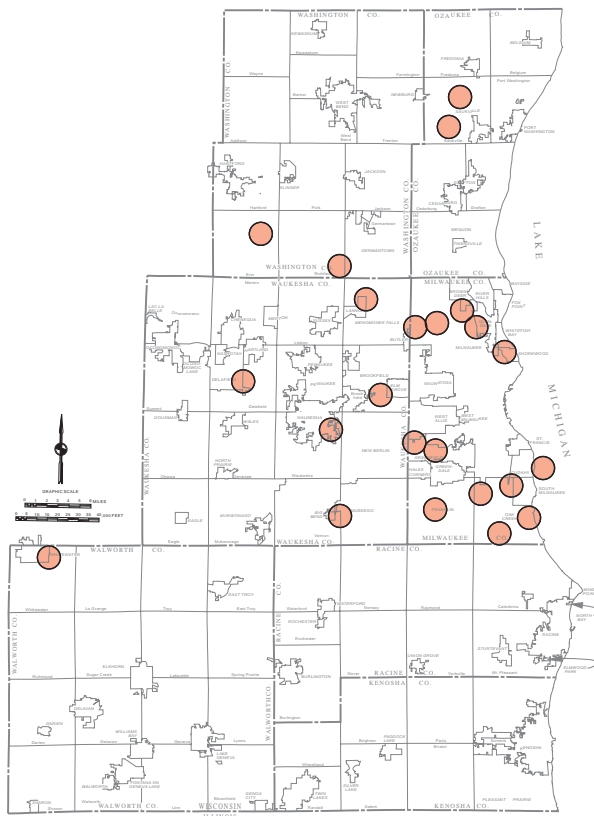
**SPOTTED SALAMANDER RANGE
AREAS OF SOUTHEASTERN WISCONSIN**



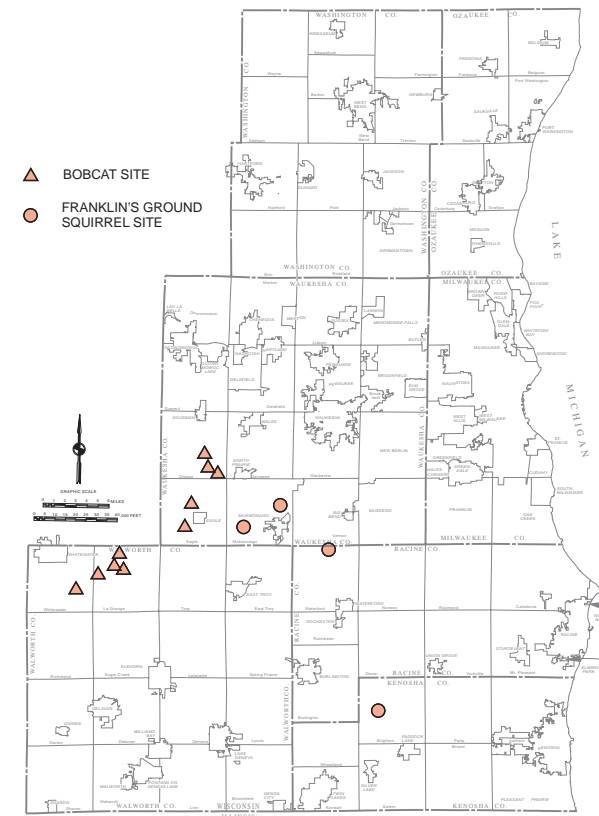
**FOUR-TOED SALAMANDER RANGE
AREAS OF SOUTHEASTERN WISCONSIN**



**BUTLER'S GARTER SNAKE RANGE
AREAS OF SOUTHEASTERN WISCONSIN**



**SPECIAL CONCERN MAMMAL SPECIES
SITES IN SOUTHEASTERN WISCONSIN**

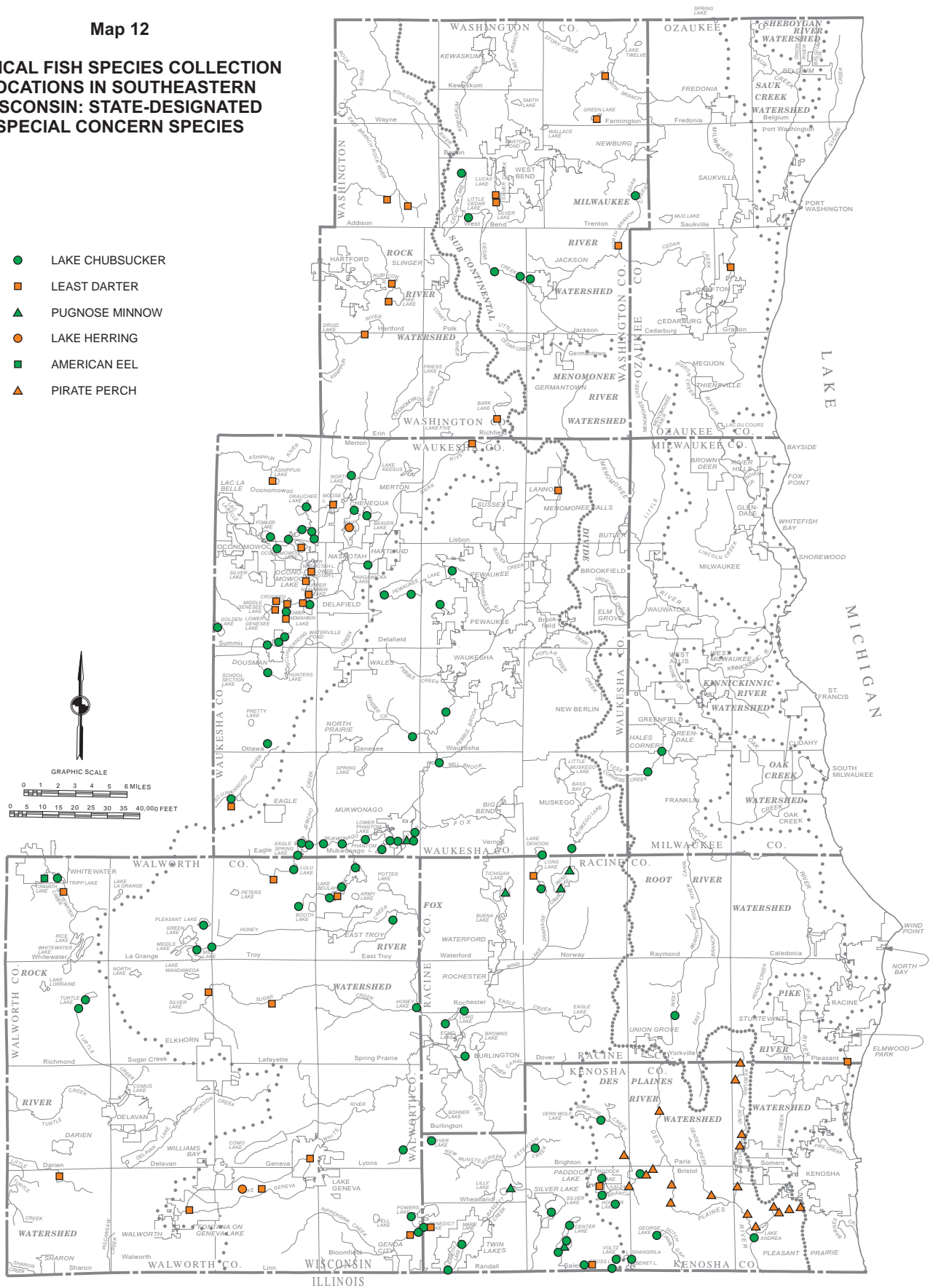


Source: Wisconsin Herpetological Atlas Project, Wisconsin Department of Natural Resources, local naturalists, and SEWRPC.

Map 12

**CRITICAL FISH SPECIES COLLECTION
LOCATIONS IN SOUTHEASTERN
WISCONSIN: STATE-DESIGNATED
SPECIAL CONCERN SPECIES**

- LAKE CHUBSUCKER
- LEAST DARTER
- ▲ PUGNOSE MINNOW
- LAKE HERRING
- AMERICAN EEL
- ▲ PIRATE PERCH

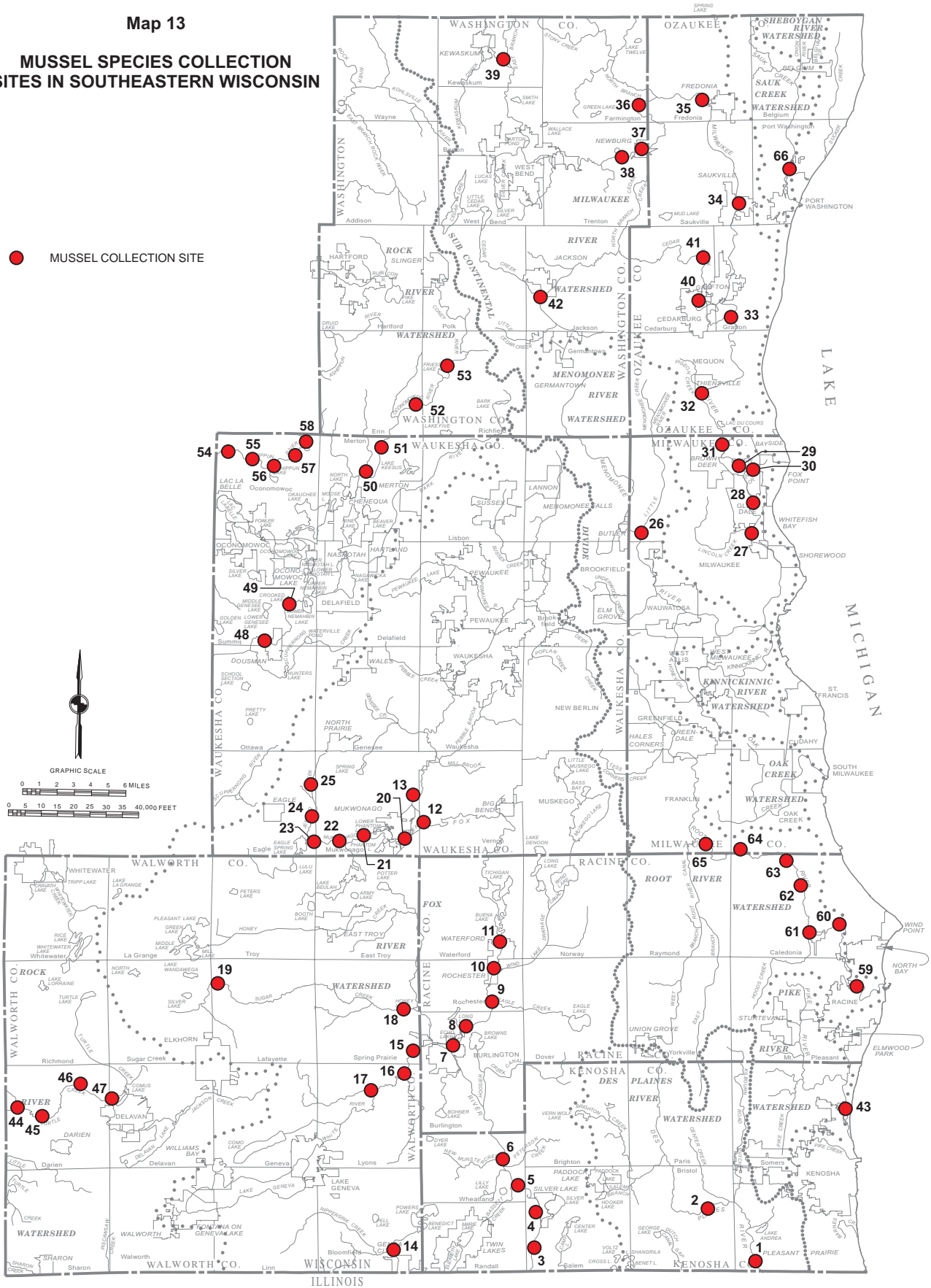


Source: SEWRPC.

Map 13

MUSSEL SPECIES COLLECTION SITES IN SOUTHEASTERN WISCONSIN

● MUSSEL COLLECTION SITE

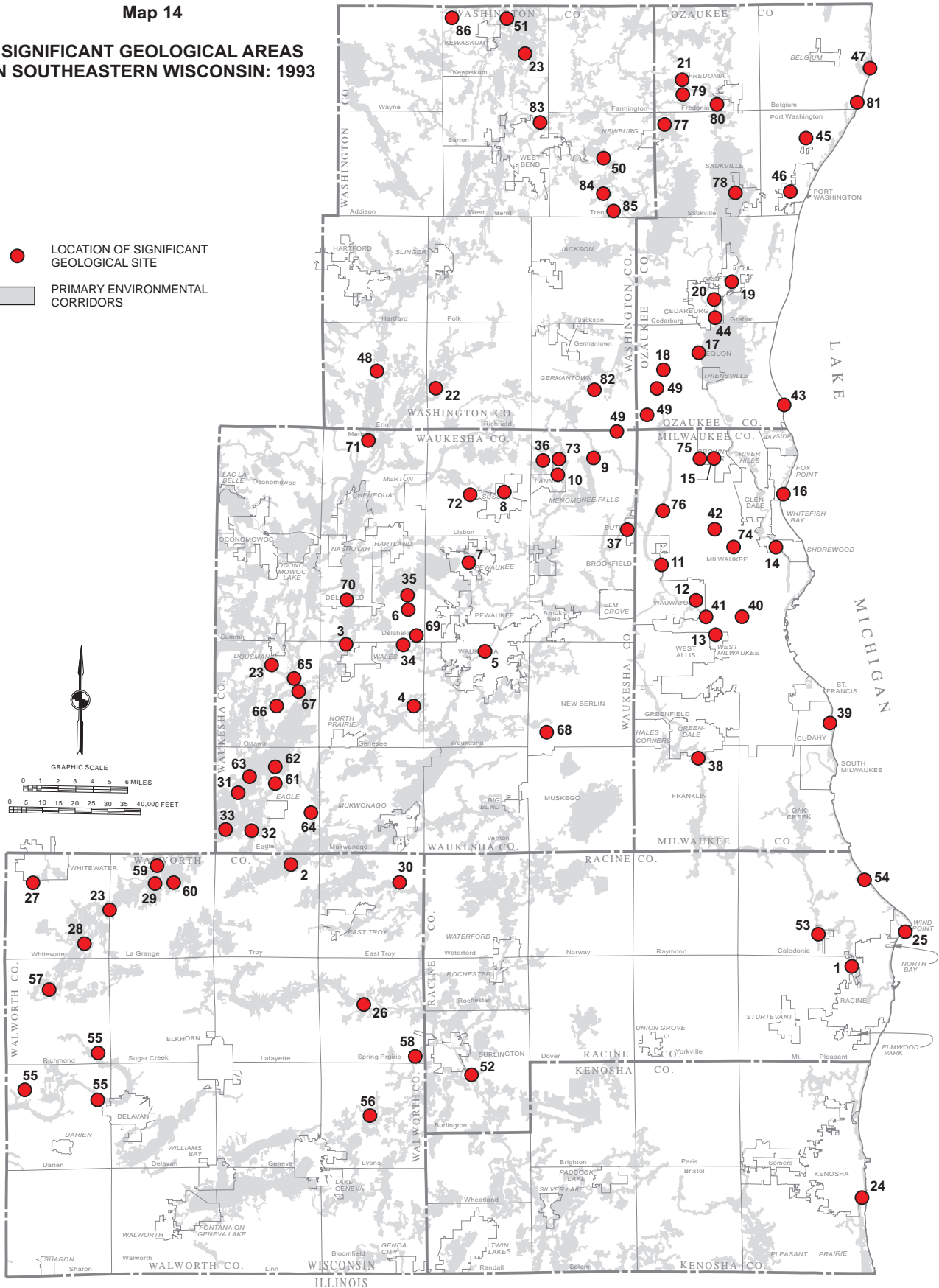


Source: SEWRPC.

Map 14

**SIGNIFICANT GEOLOGICAL AREAS
IN SOUTHEASTERN WISCONSIN: 1993**

- LOCATION OF SIGNIFICANT GEOLOGICAL SITE
- ▭ PRIMARY ENVIRONMENTAL CORRIDORS



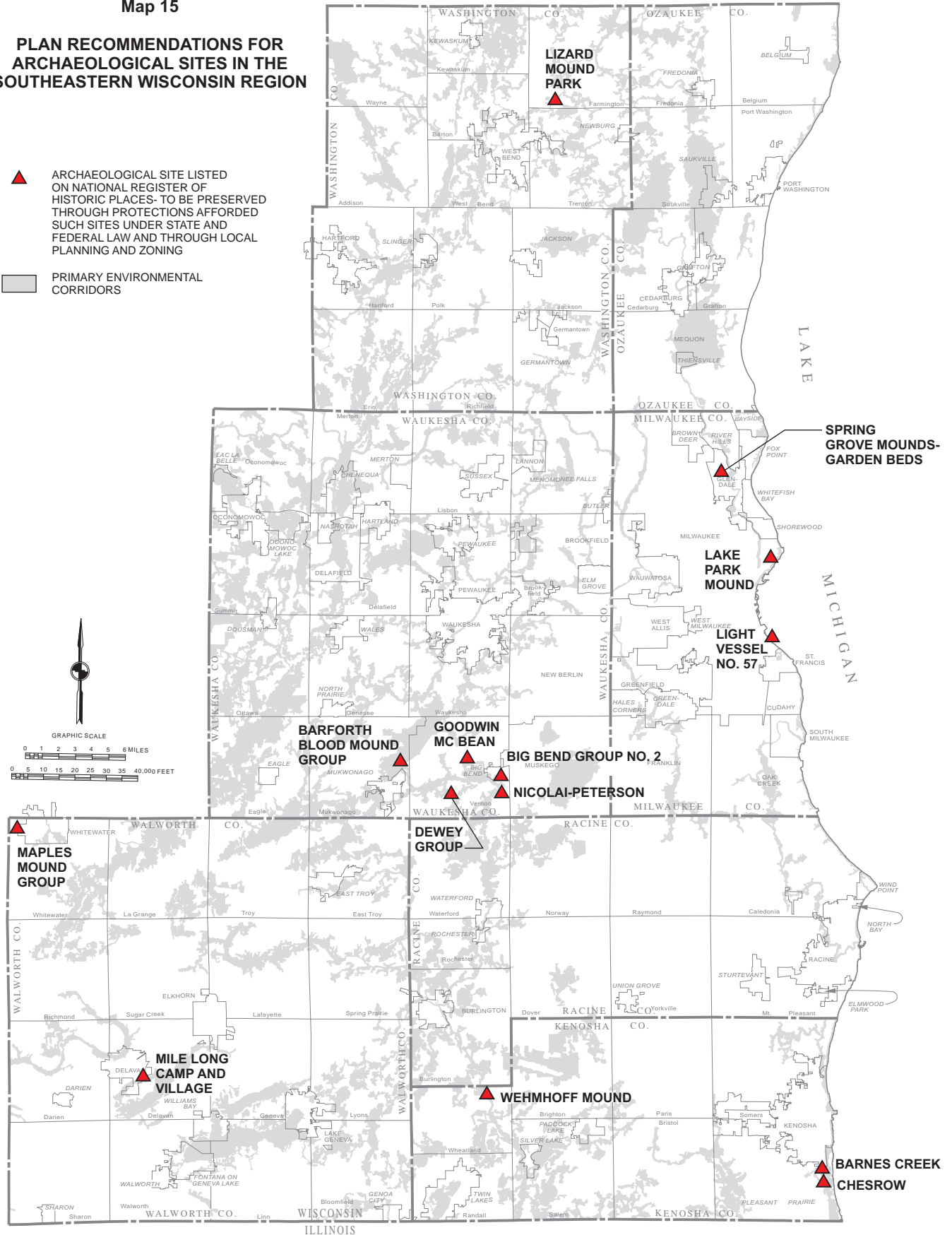
Source: SEWRPC.

Map 15

**PLAN RECOMMENDATIONS FOR
ARCHAEOLOGICAL SITES IN THE
SOUTHEASTERN WISCONSIN REGION**

▲ ARCHAEOLOGICAL SITE LISTED ON NATIONAL REGISTER OF HISTORIC PLACES- TO BE PRESERVED THROUGH PROTECTIONS AFFORDED SUCH SITES UNDER STATE AND FEDERAL LAW AND THROUGH LOCAL PLANNING AND ZONING

▭ PRIMARY ENVIRONMENTAL CORRIDORS



Source: SEWRPC.

Related Government Policies and Regulation

Existing public regulations at best provide limited protection of natural areas, critical species, and critical species habitats. The following summarizes the regulatory structure that existed at the time of adoption of the original plan:

- Major remedies available under Federal and State law generally consist of restrictions on or prohibitions of the taking, possession, transport, and sale of designated endangered and threatened plant and animal species. However, no Federal or State regulations have been specifically promulgated to protect natural areas and critical species habitats unless they are located within designated State Natural Areas which are owned or managed by the State. The Department of Natural Resources has the authority to legally dedicate privately-owned land as a State Natural Area if the State holds a special type of conservation easement on the land known as State Natural Area Articles of Dedication. In fact, all lands purchased with grants provided to land trusts under the Natural Areas component of the Stewardship Program are required to be legally dedicated as State Natural Areas.
- Wetland regulatory programs administered by the Federal and State governments may serve to protect natural areas and critical species habitats located within wetlands. In addition, State regulation of the extension of public sanitary sewerage systems may afford protection of natural areas and critical species habitats located within primary environmental corridors. Some Federal and State programs provide funds to public agencies and to private nonprofit conservation organizations to locate, evaluate, acquire, protect, and manage natural areas and critical species habitats.
- Local zoning, including general zoning and State-mandated floodland and shoreland zoning, provides a means of ensuring the protection of natural areas and critical species habitats. Local subdivision control ordinances may also be used to protect open space sites which encompass natural areas and critical species habitats. However, such ordinances are effective in preserving natural areas and critical species habitats only if the local units of government involved are inclined to enact and properly administer the ordinances with this end in mind.
- Government programs provide limited protection of especially significant geological and archaeological sites. The Federal National Natural Landmarks program provides for the designation of particularly significant geological sites; Federal agencies are required to consider potential impacts on designated National Natural Landmark sites in any environmental assessment of agency actions. Archaeological sites listed on the National Register of Historic Places receive limited protection from projects licensed or funded by the State or Federal governments.

Objectives, Principles, and Standards

In the course of its original work, the Commission's technical advisory committee adopted two objectives to guide the preparation of the original regional natural areas and critical species habitat protection and management plan.

- Maintain the integrity of the remaining biodiversity of the Region.
- Preserve and protect the remaining significant geological and archaeological sites of the Region.

Supporting principles and related standards for the preservation, protection, and management of natural areas, critical species habitat areas, and significant geological and archaeological sites were developed accordingly.

SUMMARY OF RECOMMENDATIONS SET FORTH IN THE ORIGINAL PLANNING EFFORT

Within the framework of the objectives, principles, and standards noted above, a protection and management plan consisting of three plan elements—the first dealing with natural areas and critical species habitats, the second dealing with significant geological sites, and the third dealing with significant archaeological sites—was developed. The major recommendations of the three plan elements are summarized below.




Natural Area and Critical Species Habitat Plan Element

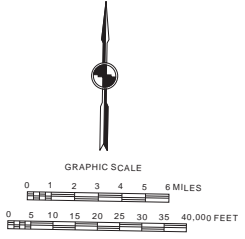
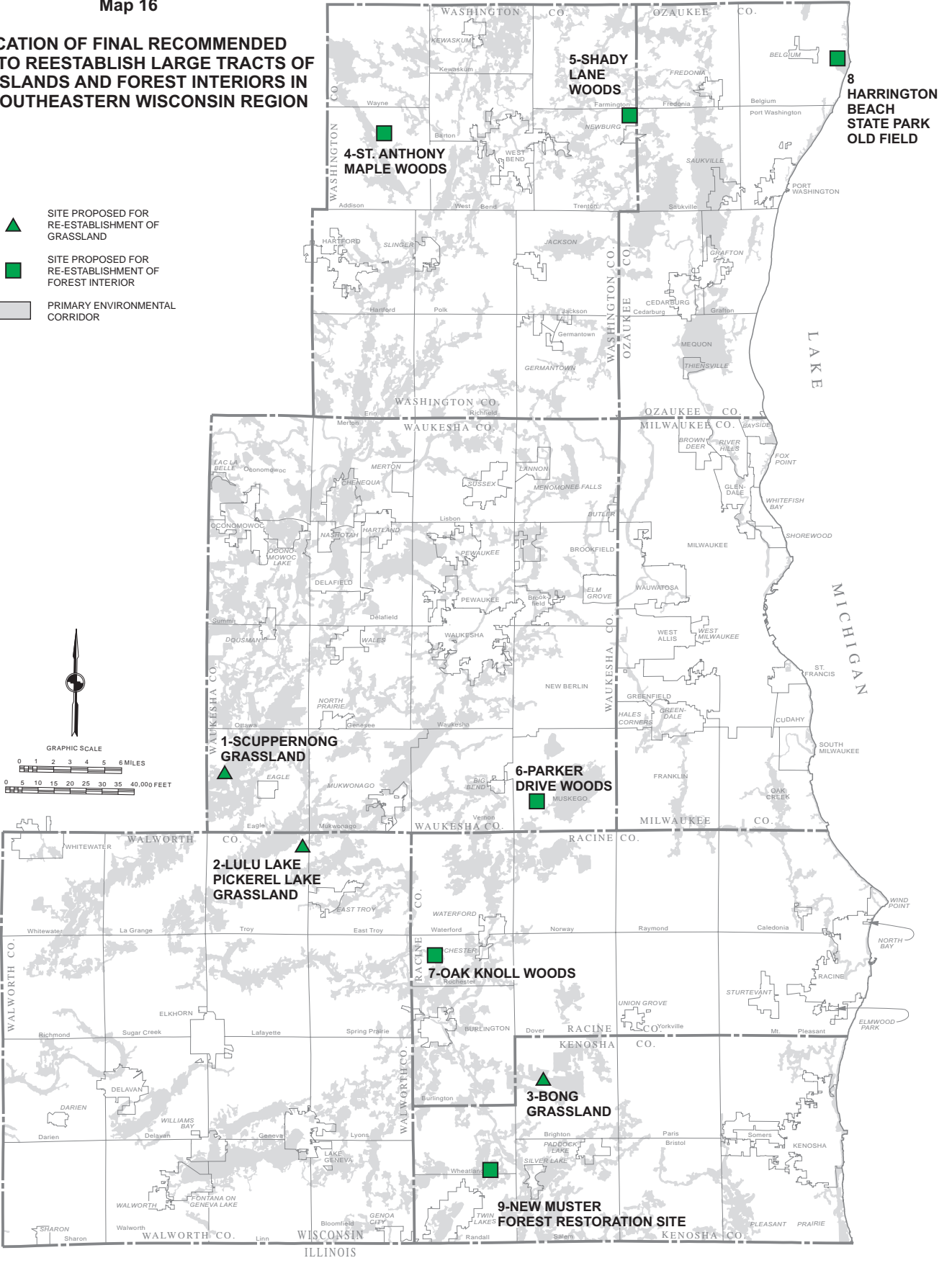
As noted above, the inventory phase of the original study resulted in the identification of 447 natural area sites as well as 141 critical species habitat sites located wholly or partly outside the boundaries of the identified natural areas. The plan recommended that each of these 588 sites be protected and preserved to the maximum extent practicable as urban and rural development in the Region proceeds. The plan recommended that 537 sites, or 91 percent of the total, be placed in public or private protective ownership, and that the other 51 sites be protected, insofar as it is possible, through zoning and other regulatory means without protective ownership. The plan recommended the following priorities for public-interest acquisition, given existing constraints on the financial resources of the public and private agencies responsible for such acquisition:

- The highest acquisition priority is recommended to be accorded to natural area sites of statewide or greater significance (NA-1 sites). All 40 of the identified NA-1 sites are recommended for protective ownership under the plan (see Maps 2 through 8). The 40 NA-1 sites encompass 13.6 square miles, or about 0.5 percent of the total area of the Region. Of the 13.6-square-mile area concerned, about 9.1 square miles, or 67 percent, had already been placed under protective public or private ownership to ensure permanent preservation. This included six sites where protective acquisition had been completed. Under the plan, the remaining 4.5 square miles were to be similarly placed under protective ownership to ensure permanent preservation. This included the expansion of protective ownership for 29 sites where only part of each site is not under such ownership; and the protective acquisition had not yet been initiated. About 68 percent of the area proposed to be acquired consisted of lands previously recommended to be acquired for open space preservation purposed under prior regional or county plans.
- The second-highest acquisition priority is recommended to be accorded to those natural areas of countywide or regional significance (NA-2 sites) and those natural areas of local significance (NA-3 sites) which lie within Commission-delineated primary environmental corridors; which support endangered, threatened, or rare plant, bird, or mammal species; or which have already been at least partly placed under public or private protective ownership (see Maps 2 through 8). Included in this priority group are all 122 of the identified NA-2 sites, plus 265 or the 285 identified NA-3 sites. These 387 sites encompass about 74.2 square miles, or about 2.8 percent of the total area of the Region. Of that total, about 31.0 square miles, or 42 percent, had already been placed under protective public or private ownership. This includes 56 sites where protective acquisition of the entire site has been completed. Under the plan, the remaining 43.2 square miles would be similarly placed under protective ownership to ensure permanent preservation. This includes the expansion of protective ownership for 180 sites already partly under protective ownership, plus the protective acquisition of 151 sites where protective acquisition has not yet been initiated. About 55 percent of the area proposed to be acquired consists of lands previously recommended to be acquired for open space preservation purposed under prior regional or county plans.
- The third-highest acquisition priority is recommended to be accorded to those critical species habitat sites which are located wholly or partly outside a designated natural area, but which either are located within a Commission-delineated primary environmental corridor or are already at least partly under public or private protective ownership (see Maps 2 through 8). In all, 110 of the identified 142 critical species habitat sites are included in this priority group. These 110 sites encompass about 21.0 square miles, or about 0.8 percent of the total area of the Region. Of that total, about 15.1 square miles, or 72 percent, have already been placed under protective public or private ownership. This includes 30 sites where protective acquisition of the entire site had been completed. Under the plan, the remaining 5.9 square miles would be similarly placed under protective ownership to ensure permanent preservation. This includes the expansion of protective ownership for 19 sites already partly under protective ownership, plus the protective acquisition of 61 sites where protective acquisition has not yet begun. About 55 percent of the area proposed to be acquired consists of lands previously recommended to be acquired for open space preservation purposes under prior regional or county plans.
- The fourth-highest acquisition priority is recommended to be accorded to the reestablishment of relatively large tracts of grasslands and forest interiors within the Region for the purpose of enhancing native bird populations. Three grassland reserve sites, together encompassing about 21.3 square miles, were recommended. Five sites, together encompassing about 0.9 square mile and which would meet criteria for forest interior, were also recommended (see Map 16).

Map 16

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

-  SITE PROPOSED FOR RE-ESTABLISHMENT OF GRASSLAND
-  SITE PROPOSED FOR RE-ESTABLISHMENT OF FOREST INTERIOR
-  PRIMARY ENVIRONMENTAL CORRIDOR



Source: SEWRPC.

Upon implementation of these site acquisition recommendations, 427 natural area sites, or 96 percent of the 447 natural area sites identified within the Region, would be under protective public or private ownership. In addition, of the 142 critical species habitat sites located wholly or partly outside any identified natural area, 111 sites, or 78 percent, would be under protective ownership.

The plan also recommended the following measures to improve planning and regulatory efforts to protect natural areas and critical species habitats:

- Adjustment of Commission-delineated primary environmental corridor boundaries to fully encompass inventoried natural areas and critical species habitat sites.
- Reflection of the natural area and critical species habitat inventory findings in the administration of Federal, State, and local wetland regulatory programs.
- Potential modification of State law and administrative rules to ensure that State agency actions attendant to the approval of sanitary sewer extensions or private sewage disposal systems do not result in the destruction of natural areas or critical species habitats.
- Proper consideration of natural areas and critical species habitats in the preparation of land use and other development plans by county and local units of government.

To ensure that natural areas and critical species habitat areas, primary environmental corridors, and the network of plant and animal communities contained within them are maintained for the future, proper management is essential. Simply designating an area as one of the above entities, although essential, is not sufficient. Equally important is ensuring an appropriate management regime. The plan recognized a need to properly manage natural areas and critical species habitat areas to ensure that the critical species and natural communities concerned can flourish. Without proper management, such as invasive species control, such areas may be significantly altered over time and their natural values diminished or lost. The plan further recognized that management techniques appropriate for one type of natural area or critical species habitat area may not be appropriate for others and that management measures must be developed and applied on a site-by-site basis. Accordingly, the plan recommended that the public agencies and private conservancy organizations responsible for site preservation and protection prepare and implement detailed management plans specific to each site.

Geological Site Plan Element

Under the original plan, all 86 of the significant geological sites identified during the inventory phase of the planning effort were recommended to be protected and preserved. The plan recommended that 71 of the 86 sites be placed under protective public or private ownership and that the other 15 sites be protected insofar as it is practicable through zoning and other regulatory measures, without protective ownership. More specifically, the original plan recommended the following with regard to the identified significant geological sites:

- The highest priority was recommended to be accorded to the acquisition of geological sites whose acquisition had been recommended under prior State, regional, or county plans and for geological sites which had been recommended for protective ownership as natural areas or critical species habitats. In all, 48 geological sites fall into this priority group (see Map 17). About 67.1 square miles of these sites had been recommended to be acquired for protective ownership under existing plans. Of that area, 31.6 square miles had been recommended for protective ownership as natural areas or critical species habitats. Of the remaining 35.5 square miles, about 24.0 square miles, or 67 percent, were already in protective ownership in 1994.
- The second-highest priority was recommended to be accorded to the acquisition of 23 geological sites which had not been recommended for protective acquisition under prior plans but which were classified as GA-1 sites or were located within a primary environmental corridor (see Map 17). A total of 291 acres, or just over 0.4 square miles, were recommended for protective ownership at these 23 sites.
- The remaining 15 geological sites were recommended to be protected and preserved to the maximum extent practicable, without public-interest acquisition. The preservation of these sites was to be taken into account in the preparation of land use plans and other development plans by county and local units of government.

Map 17

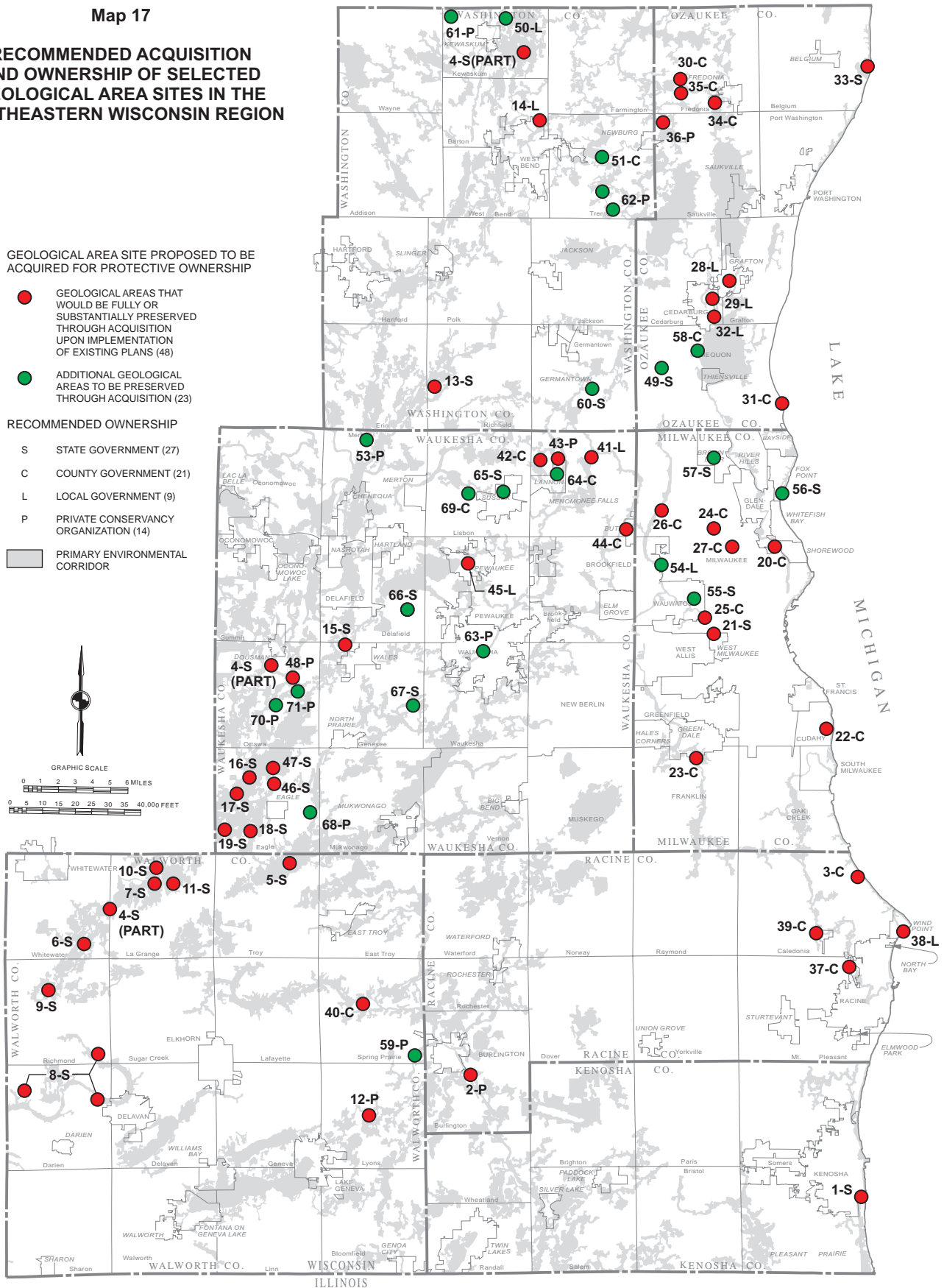
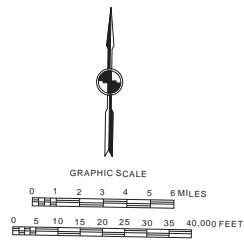
RECOMMENDED ACQUISITION AND OWNERSHIP OF SELECTED GEOLOGICAL AREA SITES IN THE SOUTHEASTERN WISCONSIN REGION

GEOLOGICAL AREA SITE PROPOSED TO BE ACQUIRED FOR PROTECTIVE OWNERSHIP

- GEOLOGICAL AREAS THAT WOULD BE FULLY OR SUBSTANTIALLY PRESERVED THROUGH ACQUISITION UPON IMPLEMENTATION OF EXISTING PLANS (48)
- ADDITIONAL GEOLOGICAL AREAS TO BE PRESERVED THROUGH ACQUISITION (23)

RECOMMENDED OWNERSHIP

- S STATE GOVERNMENT (27)
- C COUNTY GOVERNMENT (21)
- L LOCAL GOVERNMENT (9)
- P PRIVATE CONSERVANCY ORGANIZATION (14)
- PRIMARY ENVIRONMENTAL CORRIDOR



Source: SEWRPC.

Archaeological Site Plan Element

The original plan recommended the protection and preservation of the 14 archaeological sites in the Region which had been listed on the National Register of Historic Places (see Map 15). Five of these sites were wholly or partly held by public or private agencies in protective ownership. Under the original plan, the remaining nine sites would be protected and preserved to the maximum extent practicable, without public-interest acquisition, relying largely on protection afforded to National Register sites under Federal and State law and on county and local planning and zoning. None of these nine sites lie within any designated natural area, critical species habitat site, or significant geological area.

Plan Implementation

The original planning report includes recommendations directed toward the concerned Federal, State, county, and local units and agencies of government and private conservancy organizations to implement the recommended natural areas and critical species habitat protection and management plan. Recommended actions include formal adoption or endorsement of the plan; integration of the plan findings and recommendations into the work program of each agency—including, at the county and local levels, integration into land use and other development plans; acquisition of natural areas, critical species habitat sites, and geological sites as recommended in the plan; and proper management of all sites which are placed under protective ownership.

Under the original plan, the permanent protection of natural areas, critical species habitat sites, and significant geological sites depends in large measure upon site acquisition and management by numerous public and private interests. The original plan recommended that the Wisconsin Department of Natural Resources be responsible for the ownership and management of 169 individual natural area, critical species habitat, geological, grassland, and forest interior sites in the Region. The original plan recommended that the seven counties comprising the Region assume responsibility for the ownership and management of 178 such sites; cities, villages, towns, school districts, and lake management districts do so for 96 such sites; and private conservancy organizations do so for 162 such sites. The Wisconsin Department of Transportation and the University of Wisconsin would be responsible for ownership and management of 11 such sites.

Private conservancy organizations, such as land trusts, are playing an increasingly important role in preserving local natural areas and critical species habitat sites. Land trusts active in the southeastern Wisconsin Region include:

- Caledonia Conservancy
- Cedar Lakes Conservation Foundation
- Geneva Lake Conservancy
- Kenosha/Racine Land Trust
- Kettle Moraine Land Trust (formerly Lauderdale Lakes Conservancy; merged with Land Trust of Walworth County)
- Milwaukee Area Land Conservancy
- Muskego Lakes Land Conservancy
- Ozaukee Washington Land Trust
- Waukesha Land Conservancy

PURPOSE OF THE CURRENT PLAN AMENDMENT WORK EFFORT

The original natural area and critical species habitat protection and management plan was an essential first step toward protecting the natural resource base of Southeastern Wisconsin and promoting biodiversity. It identified those sites needing protection, and recommended appropriate agencies and organizations to be involved in that protection. However, loss and degradation of natural areas and critical species habitats has continued to occur in

the Region, as the plan has not been fully implemented. Lack of proper management continues to threaten even those natural areas under protective ownership with diminution of natural area qualities, such as exotic plant and animal invasions. In addition, new areas have been discovered and other areas restored.

To reach the goals as set forth in the natural areas and critical species habitat protection and management plan, implementation must continue to be guided and monitored. There is a need to ensure that monies are available in a timely way to acquire and manage natural areas and critical species habitat sites. There is also a need to ensure that management plans be prepared and implemented in a timely manner.

In addition to the natural area and critical species habitat protection and management plan recommendations, restoration of previously degraded lands from urban and agricultural uses, if properly located and constructed in a technically sound manner, may increase the natural resource base of the region.

It should be noted that protection of environmental corridor lands has been and continues to be an essential element of the overall viability of the Commission's regional land use plan. It should provide a mechanism to verify the extent to which the protection actually leads to preservation and sound management of the natural resource base as it relates to the Region's natural areas and critical species habitats.

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Section 3

STATUS OF IMPLEMENTATION OF ORIGINAL REGIONAL PLAN RECOMMENDATIONS

INTRODUCTION

In addition to documenting an inventory of the best remaining natural area sites in the Region, SEWRPC Planning Report No. 42, *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin*, also included a recommended plan that would seek to preserve and protect, to the maximum extent practicable, the identified sites. To that end, the plan proposed specific acquisition agencies, public and private, for each site in the inventory. The following reports on the progress to date in implementing those plan recommendations.

BACKGROUND

Just as the cultural landscape is not static, neither is the natural landscape, especially in a region experiencing such rapid changes as southeastern Wisconsin. Therefore, any evaluation of natural area remnants is an ongoing process because it can only reflect the current condition, which will change as species and species populations are lost, and as natural areas are degraded or restored.

As stated in SEWRPC Planning Report No. 42, the natural areas “plan presented in this report is intended to guide State, county, and local units of government, private conservancy organizations, and other private interests in efforts to protect and manage the remaining natural areas and other areas vital to the maintenance of endangered, threatened, and rare plant and animal species in the Region.” This goal can only be accomplished with accurate and current information. Newly acquired information requires that the natural landscape be re-evaluated in order to better, more completely, and more accurately assess the status of these areas in the Region.

The purposes of this section are, using the most up-to-date information, to:

- Assess the degree to which the recommendations originally proposed in SEWRPC Planning Report No. 42 have been implemented, and
- Document losses in the natural resource base caused by human-induced changes in the landscape that have occurred since preparation of SEWRPC Planning Report No. 42.

DESIGNATION OF STATE NATURAL AREAS

SEWRPC Planning Report No. 42 identified the 29 sites within the southeastern Wisconsin Region that had been formally designated as State Natural Areas by the Wisconsin Department of Natural Resources. As defined, State Natural Areas contain nearly intact plant and animal communities, or unique and significant geological or archaeological features. Such designation means that there is an agreement in place to properly manage the natural area. Subsequent to the original plan, 10 additional sites have been so designated by the Wisconsin Department of Natural Resources, including two sites only partially within the Region. Also, two formerly separate sites in Kenosha County have been combined under one name, bringing to 38 the total number of such sites wholly or partially within the Region (see Table 1 and Map 18). These new areas range from upland woods and prairies to fens and lowland forests.

NATURAL AREAS

Sites Preserved Since Publication of the Original Plan

The original plan proposed the public or private protection of 427 (96 percent) of the 447 natural areas listed in the inventory. This total included all 40 of the NA-1 sites, all 122 of the NA-2 sites, and 265 of the 285 NA-3 sites (Table 2). The total area of natural area sites proposed to be protected was 56,346 acres (Table 3). 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. Table 4 lists the site, the agency of acquisition, and the known areal extent that has come under protective ownership since publication of the original report. Since preparation of the original plan, 1,261 acres of natural areas have been placed under protective ownership by public and private agencies (Table 3). 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 16 natural area sites (Table 5). A total of seven natural area sites had their protective acquisition completed, according to the recommendations of the original plan (Table 6).

Losses of Natural Areas

Human-induced disturbance to natural areas, except for those with the most highly restricted legal or physical access, is, unfortunately, an ongoing process in an urbanizing environment. Rare species and their habitats continue to suffer adverse development-related impacts. While the original plan constituted an important initial step toward achieving protected status, simply being identified as a natural area or critical species habitat area deserving of protection does not in and by itself prevent a site from being severely disturbed. A more realistic objective is to keep such disturbance to a minimum, and in the process maintain the integrity of the natural area. Disturbances include such obvious factors as cutting of timber, grazing, trampling, and road and residential construction, but also such less obvious factors as lack of proper management resulting in a gradual change in species composition and dominance. In addition, invasion by exotic species is a continuing problem.

Seven of the natural areas listed in the original plan have suffered disturbance to such a degree and such a reduction in quality (usually accompanied by reduced acreage) to warrant a downward revision in their classification (Table 7). Three of these sites—Harley-Davidson Woods in Milwaukee County, Mueller Lake Woods in Washington County, and CTH D Railroad Prairie in Waukesha County—no longer qualify for natural

Table 1

DESIGNATED STATE NATURAL AREAS IN SOUTHEASTERN WISCONSIN: 2008

Map 18 Reference Number	State Natural Area Name	County	Location	Ownership (those SNAs not under public ownership are protected through conservation easements)
1	New Munster Bog Island ^a	Kenosha	T1N, R19E Sections 2, 3, 10, 11	Department of Natural Resources
2	Silver Lake Bog	Kenosha	T1N, R20E Section 16	Silver Lake Sportsmen's Club
3	Peat Lake	Kenosha	T1N, R20E Section 32	Department of Natural Resources
4	Chiwaukee Prairie ^b	Kenosha	T1N, R23E Sections 31, 32	Department of Natural Resources, University of Wisconsin—Parkside and The Nature Conservancy
5	Karcher Springs	Racine	T2N, R19E Sections 21, 22	Department of Natural Resources
6	Cherry Lake Sedge Meadow	Racine	T3N, R19E Sections 10, 15	Department of Natural Resources
7	Sander's Park Hardwoods	Racine	T3N, R22E Section 36	Racine County
8	Renak-Polak Maple-Beech Woods	Racine	T4N, R22E Section 14	University of Wisconsin—Parkside
9	Bluff Creek Springs ^c	Walworth	T4N, R15E Sections 14, 24 T4N, R15E Section 19	Department of Natural Resources
10	Clover Valley Fen	Walworth	T4N, R15E Sections 22, 27	Department of Natural Resources
11	Young Prairie	Walworth	T4N, R16E Section 5	Department of Natural Resources
12	Lulu Lake ^d	Walworth	T4N, R17E Sections 1-3, 10, 11	Department of Natural Resources and The Nature Conservancy
13	Pickarel Lake Fen	Walworth	T4N, R17E Sections 13, 24	The Nature Conservancy and private
14	Beulah Bog	Walworth	T4N, R18E Sections 7, 8	Department of Natural Resources
15	Kettle Moraine Low Prairie ^e	Waukesha	T5N, R17E Sections 3, 4	Department of Natural Resources
16	Scuppernong Prairie	Waukesha	T5N, R17E Sections 16, 17	Department of Natural Resources
17	Eagle Oak Opening ^f	Waukesha	T5N, R17E Section 30	Department of Natural Resources
18	Muskego Park Hardwoods	Waukesha	T5N, R20E Section 17	Waukesha County and private
19	Ottawa Lake Fen	Waukesha	T6N, R17E Section 34	Department of Natural Resources
20	Genesee Oak Opening and Fen ^g	Waukesha	T6N, R18E Section 28	Department of Natural Resources
21	Fairy Chasm	Ozaukee, Milwaukee	T9N, R22E Section 33 T8N, R22E Sections 4, 5	The Nature Conservancy
22	Kurtz Woods	Ozaukee	T10N, R21E Section 1	Ozaukee Washington Land Trust
23	Riveredge Creek and Ephemeral Pond	Ozaukee	T11N, R21E Sections 7, 8	Riveredge Nature Center
24	Cedarburg Bog	Ozaukee	T11N, R21E Sections 18, 29-32	Department of Natural Resources and University of Wisconsin—Milwaukee
25	Cedarburg Beech Woods	Ozaukee	T11N, R21E Section 30	University of Wisconsin—Milwaukee

Table 1 (continued)

Map 18 Reference Number	State Natural Area Name	County	Location	Ownership (those SNAs not under public ownership are protected through conservation easements)
26	Sapa Spruce Bog	Ozaukee	T11N, R21E Section 30	The Nature Conservancy
27	Milwaukee River Floodplain Forest	Washington	T12N, R19E Section 14	Department of Natural Resources
28	Kewaskum Maple-Oak Woods	Washington	T12N, R19E Section 15	Department of Natural Resources
29 (new)	Cudahy Woods	Milwaukee	T5N, R22E Section 4	Milwaukee County
30 (new)	Franklin Park Savanna ^h	Milwaukee	T5N, R21E Section 29	Milwaukee County
31 (new)	Warnimont Bluff Fens ⁱ	Milwaukee	T6N, R22E Section 36	Milwaukee County
32 (new)	Huiras Lake ^j	Ozaukee	T12N, R21E Sections 8, 9, 10, 16	Department of Natural Resources and Ozaukee Washington Land Trust
33 (new)	C. F. Messinger Dry Prairie and Savanna Preserve ^k	Walworth Waukesha Jefferson	Several separate units	Department of Natural Resources
34 (new)	Kettle Moraine Oak Opening	Walworth (mostly in Jefferson County)	T4N, R16E Sections 3, 4	Department of Natural Resources
35 (new)	Jackson Marsh ^l	Washington	T10N, R20E Sections 1, 2, 8, 9, 10, 14, 15, 16, 17	Department of Natural Resources
36 (new)	Eagle Centre Prairie ^m	Waukesha	T5N, R17E Sections 22, 27	Waukesha Land Conservancy
37 (new)	Martin's Woods ⁿ	Waukesha	T5N, R19E Sections 22, 23	Waukesha County, Village of Big Bend, and Waukesha Land Conservancy
38 (new)	Mukwonago River ^o	Waukesha	T5N, R18E Sections 31, 32, 33 T5N, R17E Section 36	Department of Natural Resources

^a Referred to as "New Munster Shrub-Carr and Tamarack Relict in PR-42.

^b "Chiwaukee Prairie State Natural Area" includes "Chiwaukee Prairie," "Carol Beach Low Prairie and Panne," and "Kenosha Dunes and Low Prairie" as identified in PR-42.

^c Referred to as "Bluff Creek Fen" and "Bluff Creek Oak Woods" in PR-42.

^d Referred to as "Lulu Lake and Eagle Spring Lake Wetland Complex and Adjacent Wetlands" in PR-42.

^e Referred to as "Kettle Moraine Fen and Low Prairie" in PR-42.

^f Referred to as "Eagle Oak Opening and Dry Prairies" in PR-42.

^g Referred to as "Genesee Oak Opening and Yatzeck's Fen" in PR-42.

^h Referred to as "Franklin Oak Woods and Oak Savanna" in PR-42.

ⁱ Referred to as "Warnimont Park Fens" in PR-42.

^j Referred to as "Huiras Lake Woods and Bog" in PR-42.

^k Includes "Kestol Dry Prairie," "Rice Lake Dry Prairie," and "Ulrickson Road Cedar Glade" from PR-42.

^l Referred to as "Jackson Swamp" in PR-42.

^m Referred to as "Eagle Centre (Hafner) Oak Opening" in PR-42.

ⁿ Referred to as "Big Bend Wet-Mesic Woods" in PR-42.

^o Referred to as "Upper Mukwonago River" in PR-42.

Source: Wisconsin Department of Natural Resources and SEWRPC.

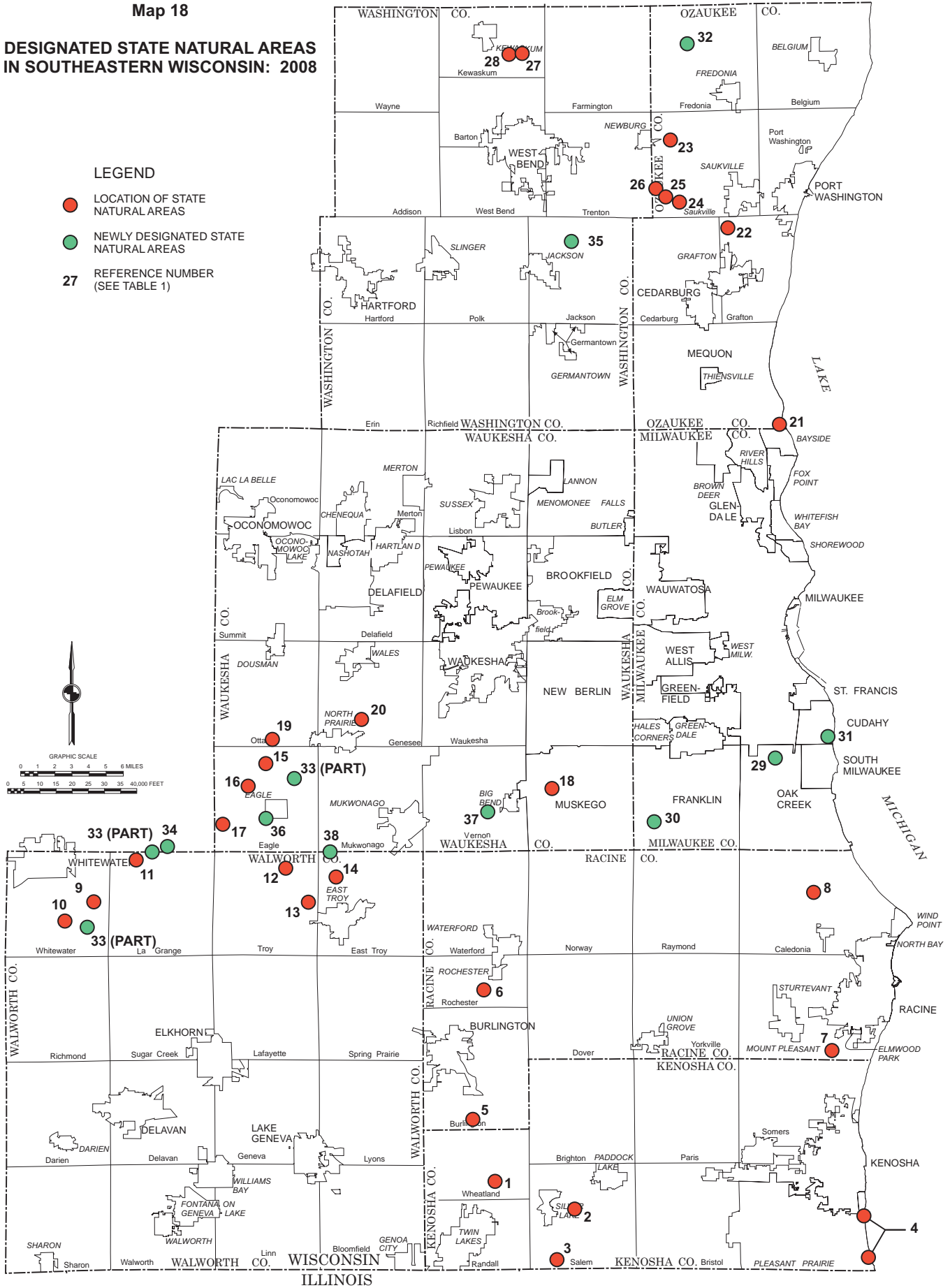
area status at all, while three others—Oakwood Oak Woods and Wood Creek Woods in Milwaukee County and Campbell Woods in Racine County—despite significant disturbance, still provide habitat suitable for critical plant species and thus have had their designation changed to Critical Species Habitat area.

Map 18

**DESIGNATED STATE NATURAL AREAS
IN SOUTHEASTERN WISCONSIN: 2008**

LEGEND

- LOCATION OF STATE NATURAL AREAS
- NEWLY DESIGNATED STATE NATURAL AREAS
- 27 REFERENCE NUMBER (SEE TABLE 1)



This map identifies those State Natural Areas located within Southeastern Wisconsin. State Natural Areas have been dedicated for preservation, and are formally designated by the Natural Areas Preservation Council, which is advisory to the Wisconsin Department of Natural Resources. They are selected from the best remaining natural areas that contain nearly intact plant and animal communities, or unique and significant geological or archaeological features.

Source: SEWRPC.

Table 2

**CHANGES IN PROTECTIVE OWNERSHIP OF NATURAL AREAS AND CRITICAL SPECIES
HABITAT SITES AS RECOMMENDED IN SEWRPC PLANNING REPORT NUMBER 42**

Class	Protection Status	As of Completion of PR-42			Changes Since PR-42			
		Number of Sites	Acreage Protected	Acreage Not Protected	Number of Sites	Acreage Protected	Acreage Not Protected	Percent Increase
NA-1	Fully Under Protective Ownership	6	422	--	6	422	--	--
	No Current Protective Ownership	5	--	278	5	--	278	--
	Partially Under Protective Ownership	29	5,407	2,584	29	5,500	2,491	2
	Subtotal	40	5,829	2,862	40	5,922	2,769	2
NA-2	Fully Under Protective Ownership	18	1,953	--	18	1,953	--	--
	No Current Protective Ownership	31	--	4,084	30	--	4,063	--
	Partially Under Protective Ownership	73	8,566	6,588	74	9,118	6,057	6
	Subtotal	122	10,519	10,672	122	11,071	10,120	5
NA-3	Fully Under Protective Ownership	38	1,376	--	45	1,649	--	20
	No Current Protective Ownership	121	--	9,758	114	--	9,031	--
	Partially Under Protective Ownership	106	8,141	7,189	106	8,410	7,374	3
	Subtotal	265	9,517	16,947	265	10,059	16,405	6
	NA Totals	427	25,865	30,481	427	27,052	29,294	5
Critical Species Habitat	Fully Under Protective Ownership	31	1,190	--	31	1,190	--	--
	No Current Protective Ownership	61	--	2,258	61	--	2,258	--
	Partially Under Protective Ownership	18	8,509	1,513	18	8,514	1,508	1
	Subtotal	110	9,699	3,771	110	9,704	3,766	1
	Total of All Areas	537	35,564	34,252	537	36,756	33,060	3

Source: SEWRPC.

Table 3

**PROGRESS IN ACQUISITION OF NATURAL AREA ACREAGE AS
RECOMMENDED IN SEWRPC PLANNING REPORT NUMBER 42**

Classification	Total Acreage Proposed to be Placed Under Protective Ownership	Acreage Proposed to be Acquired for Protection	Acreage Acquired for Protection Subsequent to Preparation of PR-42	Percent Acquired
NA-1	8,691	2,862	93	3.2
NA-2	21,191	10,672	552	5.2
NA-3	26,464	16,947	616	3.6
Subtotal	56,346	30,481	1,261	4.1
Critical Species Habitat	13,470	3,771	5	0.1
Total	69,816	34,252	1,266	3.7

Source: SEWRPC.

Table 4

NATURAL AREA (NA) AND CRITICAL SPECIES HABITAT AREA (CSH) SITES PLACED WHOLLY OR PARTIALLY UNDER PROTECTIVE OWNERSHIP SINCE PREPARATION OF SEWRPC PLANNING REPORT NUMBER 42

Site Name	County	Rank	Additional Area Under Protective Ownership (acres)	Agency of Acquisition
Chiwaukee Prairie State Natural Area	Kenosha	NA-1	9	The Nature Conservancy
Elm Island Bog	Racine	NA-1	54	Racine County
Kurtz Woods State Natural Area	Ozaukee	NA-1	14	Ozaukee Washington Land Trust
Lulu Lake State Natural Area	Walworth	NA-1	16	Wisconsin Department of Natural Resources
Big Bend Wet-Mesic Woods (including Martins Woods)	Waukesha	NA-2	116	Waukesha Land Conservancy, Waukesha County, Town of Vernon, and Village of Big Bend
Blue Hills Woods	Washington	NA-2	20	Ozaukee Washington Land Trust
Falk Fen	Waukesha	NA-2	96	Waukesha Land Conservancy
Huiras Lake Swamp	Ozaukee	NA-2	103	Ozaukee Washington Land Trust
Menomonee Falls "Tamarack" Swamp	Waukesha	NA-2	141	Waukesha Land Conservancy
Milwaukee River Mesic Woods	Ozaukee	NA-2	55	Ozaukee County
Muth Woods	Washington	NA-2	21	Ozaukee Washington Land Trust
CTH ZC Lowlands	Waukesha	NA-3	188	Waukesha Land Conservancy
Eagle Centre Oak Opening	Waukesha	NA-3	20	Waukesha Land Conservancy
Fellenz Hardwood Swamp	Washington	NA-3	58	Ozaukee Washington Land Trust
Grafton Woods	Ozaukee	NA-3	18	Ozaukee Washington Land Trust
Hansen's Lake	Ozaukee	NA-3	8	Ozaukee Washington Land Trust
Lion's Den Gorge	Ozaukee	NA-3	11	Ozaukee County
Nelson Woods	Waukesha	NA-3	14	Waukesha Land Conservancy
New Berlin Woods	Waukesha	NA-3	35	City of New Berlin
Oconomowoc Swamp	Waukesha	NA-3	38	Waukesha Land Conservancy and City of Oconomowoc
Sawyer Road Sedge Meadow	Waukesha	NA-3	35	Waukesha Land Conservancy
Slinger Upland Woods	Washington	NA-3	117	Wisconsin Department of Natural Resources and Cedar Lake Conservation Foundation
Carol Beach Prairies ^a	Kenosha	NA-2 NA-3 CSH	74	Wisconsin Department of Natural Resources
Caledonia Sanitary Sewer Right-of-Way	Racine	CSH	5	Caledonia Conservancy

^aThis general category includes acreage acquired by the Wisconsin Department of Natural Resources encompassing several natural areas, critical species habitat areas, and other sites in the area.

Source: SEWRPC.

CRITICAL SPECIES HABITAT AREAS

Sites Newly Preserved

A single Critical Species Habitat site—the Caledonia Sanitary Sewer Right-of-Way—has been partially protected since preparation of SEWRPC Planning Report No. 42 (Tables 4, 5, and 6). 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*).

Losses of Critical Species Habitat Areas

Because the location of a Critical Species Habitat site depends directly on the presence of a critical plant or animal species, and only indirectly on the ecological quality of the site, a site may undergo significant disturbance yet still contain enough suitable habitat for the critical species in question to survive. To date there are only three

Table 5

PUBLIC AND PRIVATE AGENCIES INVOLVED WITH PROTECTIVE ACQUISITION OF NATURAL AREAS AND CRITICAL SPECIES HABITAT SITES SINCE PREPARATION OF SEWRPC PLANNING REPORT NUMBER 42

Agency of Acquisition	Number of Sites	Acreage
Caledonia Conservancy	1	5
City of New Berlin	1	35
Ozaukee County	1	55
Ozaukee Washington Land Trust	7	242
Ozaukee Washington Land Trust and Ozaukee County	1	20
Racine County	1	54
The Nature Conservancy.....	1	9
Waukesha Land Conservancy.....	7	532
Waukesha Land Conservancy and Waukesha County	1	116
Wisconsin Department of Natural Resources.....	2	133 ^a
Total	23	1,201

^a An additional 74 acres in the Carol Beach area of Kenosha County were acquired by the Wisconsin Department of Natural Resources, apportioned among several natural areas and critical species habitat areas.

Source: SEWRPC.

Table 6

DETAILED PROGRESS IN ACQUISITION OF NATURAL AREAS AS RECOMMENDED IN SEWRPC PLANNING REPORT NUMBER 42

Site Name	County	Rank	Area Already Protected (Acres)	Area Proposed to be Acquired (Acres)	Area Acquired Since PR-42 (Acres)	Percent Acquired
Chiwaukee Prairie State Natural Area	Kenosha	NA-1	242	67	9	13
Elm Island Bog	Racine	NA-1	9	59	54	92
Kurtz Woods State Natural Area	Ozaukee	NA-1	31	39	14	36
Lulu Lake State Natural Area	Walworth	NA-1	726	244	16	7
Big Bend Wet-Mesic Woods (including Martins Woods)	Waukesha	NA-2	219	208	116	56
Blue Hills Woods	Washington	NA-2	105	161	20	12
Falk Fen	Waukesha	NA-2	114	167	96	57
Huiras Lake Swamp	Ozaukee	NA-2	22	413	103	25
Menomonee Falls "Tamarack" Swamp	Waukesha	NA-2	362	469	141	30
Milwaukee River Mesic Woods	Ozaukee	NA-2	67	315	55	18
Muth Woods	Washington	NA-2	0	30	21	70
Sawyer Road Sedge Meadow	Waukesha	NA-3	3	35	35	100
CTH ZC Lowlands	Waukesha	NA-3	0	380	188	50
Eagle Centre Oak Opening	Waukesha	NA-3	0	20	20	100
Fellenz Hardwood Swamp	Washington	NA-3	0	58	58	100
Grafton Woods	Ozaukee	NA-3	0	18	18	100
Hansen's Lake	Ozaukee	NA-3	5	8	8	100
Lion's Den Gorge	Ozaukee	NA-3	0	20	11	55
Nelson Woods	Waukesha	NA-3	77	14	14	100
New Berlin Woods	Waukesha	NA-3	0	35	35	100
Oconomowoc Swamp	Waukesha	NA-3	5	143	38	27
Slinger Upland Woods	Washington	NA-3	0	196	117	60
Caledonia Sanitary Sewer Right-of-Way	Racine	CSH	13	62	5	8

Source: SEWRPC.

Table 7

**NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS LISTED IN SEWRPC PLANNING REPORT NUMBER 42
THAT HAVE BEEN REDUCED IN CLASSIFICATION BECAUSE OF DISTURBANCE OR OTHER DEGRADATION**

Area Name	Location	Former Classification	Revised Classification	Former Acreage	Revised Natural Area or Critical Species Habitat Acreage	Reason for Downgrading
Harley-Davidson Woods	Milwaukee County T7N R21E Section 6	NA-3	none	11	0	Most of woods destroyed for factory expansion
Oakwood Oak Woods	Milwaukee County T5N R21E Sections 25, 26	NA-3	Critical Species Habitat	68	54	Most of woods destroyed for industrial park; critical plant species still extant
Wood Creek Woods	Milwaukee County T5N R22E Section 20	NA-3	Critical Species Habitat	35	27	Much of woods destroyed for condominiums; critical plant species still extant
Campbell Woods	Racine County T3N R22E Section 35	NA-3	Critical Species Habitat	72	43	Extensive residential development; critical plant species still extant
Ives Grove Prairie Remnant	Racine County T3N R21E Section 13	Critical Species Habitat	none	1	0	No prairie remaining, only mowed bluegrass sod
Krieser Fen	Racine County T4N R20E Section 10	Critical Species Habitat	none	2	0	No suitable habitat remaining for critical species
Breakers Woods	Racine County T4N R23E Section 16	Critical Species Habitat	none	5	0	All suitable habitat for critical species destroyed
Mueller Lake Woods	Washington County T10N R19E Section 6	NA-3	none	97	0	Extensive residential development within woods, resulting in reduction of forest interior habitat
Muth Mesic Woods	Washington County T11N R19E Section 24	NA-2	NA-3	30	21	Cutting of timber and residential development resulted in significant decrease in forest habitat
CTH D RR Prairie	Waukesha County T6N R18E Section 15	NA-3	none	2	0	Extensive loss of natural habitat due to deleterious railway right-of-way improvements and management

Source: SEWRPC.

known documented instances relating to critical species habitat sites listed in the original plan where the critical species in question has been extirpated from the site. These three critical species habitat sites, all located in Racine County, have each been so degraded that the environmental conditions necessary for the critical species continued existence on the site have been lost. The three sites are Ives Grove Prairie Remnant, where wild quinine (*Parthenium integrifolium*) had been located; Krieser Fen, where Ohio goldenrod (*Solidago ohioensis*) had been located; and Breakers Woods, where blue-stemmed goldenrod (*Solidago caesia*) had been located (Table 7).

AQUATIC, GEOLOGICAL, AND ARCHAEOLOGICAL SITES

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

SUMMARY

This section summarizes the gains in protective ownership and losses of natural areas and critical species habitat area sites originally inventoried for SEWRPC Planning Report Number 42. Since preparation of the original plan, 23 natural area sites have, in entirety or in part, been acquired for protection. This total encompasses 1,261 additional acres. Seven natural areas encompassing 315 acres have been downgraded in classification because of disturbance.

One critical species habitat area of five acres has been acquired for protection. Three critical species habitat areas totaling eight acres have been lost due to destruction of the required habitat.

No geological, aquatic, or archaeological area sites have been acquired since the original plan.

Section 4

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

INTRODUCTION

As comprehensive as SEWRPC Planning Report No. 42 attempted to be, there remain in the southeastern Wisconsin landscape an indeterminate number of sites which, because of a combination of time, staff, and cost restraints, and limited access to private lands, could not reasonably be surveyed during the initial inventory process. Accordingly, little or no information was available concerning the ecological quality of these sites. The question of encountering critical species was even more problematic, depending greatly on the observer being in the appropriate area at the optimal time for observation. Since it was physically impossible to survey every possible natural area for potential inclusion in the inventory, it was determined that it was of primary importance to prepare the original plan and disseminate the information therein in expectation that progress could be made in preserving the most important natural area sites in the Region. Otherwise, there was a distinct possibility that natural areas and critical species habitat areas would continue to be lost during the additional time period that it would take to ensure that every single potential natural area was surveyed, and that every critical species occurrence was accounted for.

Over time, however, the effort expended by the Commission staff in information gathering has continued. On an ad hoc basis, new sites have been surveyed in the field, and the most up-to-date aerial photography has been interpreted. This has resulted in the identification of additional natural area and critical species habitat sites.

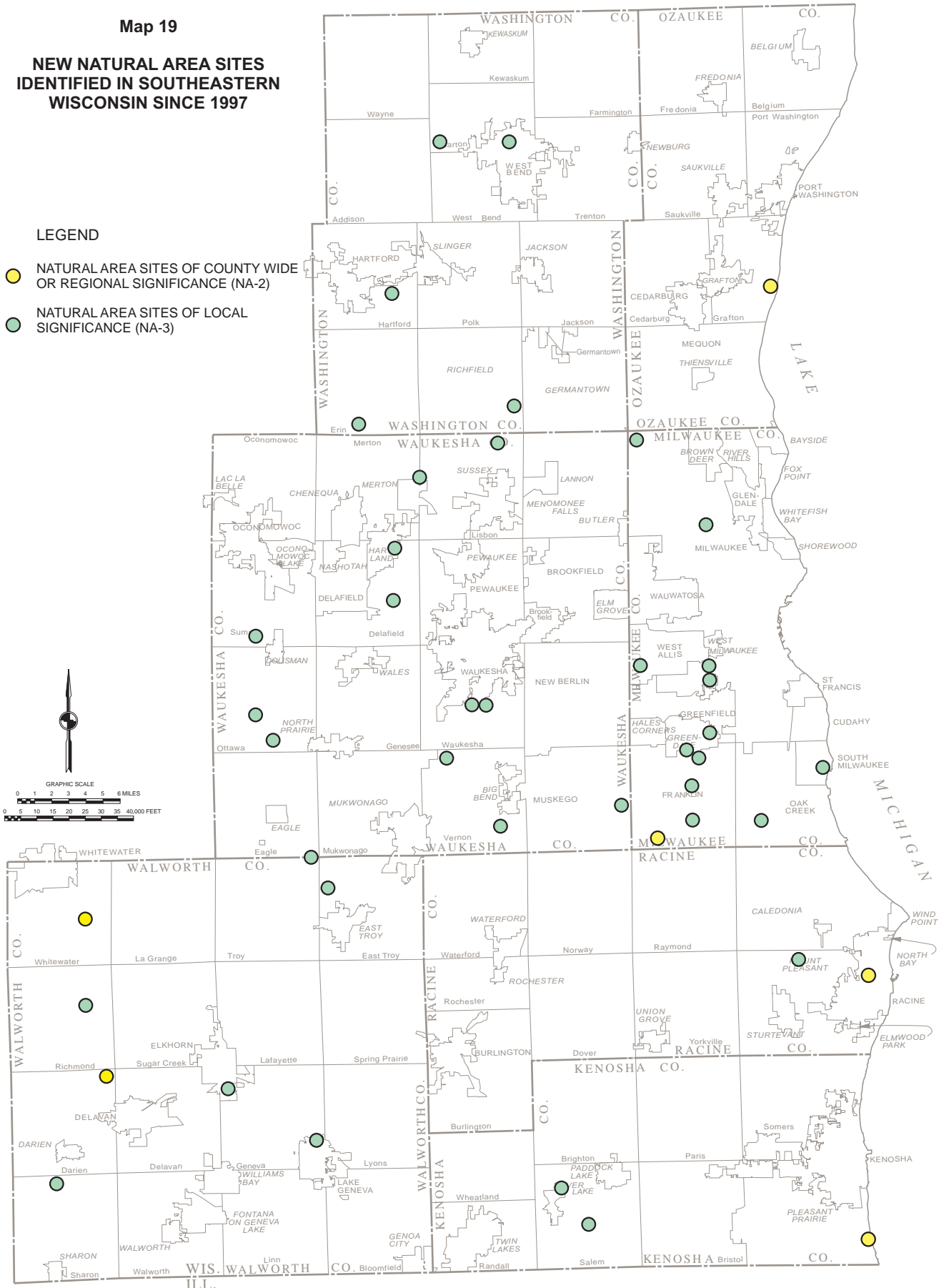
ADDITIONAL NATURAL AREA SITES

The updated natural areas plan proposes to add 44 natural area sites totaling 2,033 acres to the regional inventory (Map 19 and Table 8). All 44 sites were rated according to the Commission's evaluation procedure set forth in SEWRPC Planning Report No. 42. This list consists of areas not included under any ranking in the original plan, and does not include sites from the original plan whose classification has changed. Of the 44 newly identified sites, seven were found to be of regional or countywide significance (NA-2), encompassing a total area of 202 acres, and 38 were found to be of local significance (NA-3), encompassing a total area of 1,831 acres. Milwaukee County and Waukesha County both contained 13 new sites, totaling 441 acres and 542 acres, respectively.

Map 19
NEW NATURAL AREA SITES
IDENTIFIED IN SOUTHEASTERN
WISCONSIN SINCE 1997

LEGEND

- NATURAL AREA SITES OF COUNTY WIDE OR REGIONAL SIGNIFICANCE (NA-2)
- NATURAL AREA SITES OF LOCAL SIGNIFICANCE (NA-3)



Source: SEWRPC.

Table 8

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

Site Name	Location	Proposed Classification Code	Size (acres)	Ownership	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 wet-mesic woods supporting critical species habitat
Grootemaat Woods	Milwaukee County T6N R21E Section 35 City of Greenfield	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

Table 8 (continued)

Site Name	Location	Proposed Classification Code	Size (acres)	Ownership	Site Description
Ryan Road Woods	Milwaukee County T5N R22E Section 29 City of Oak Creek	NA-3	42	Milwaukee County and private	Dry-mesic woods
West Branch Root River Woods	Milwaukee County T6N R21E Section 7 City of West Allis	NA-3	12	Private	Small remnant of native forest in highly developed area
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	City of Racine 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	Village of Mt. Pleasant and private	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	Kettle Moraine 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	Private	Good quality dry prairie on long exposed ridge
Amy Bell Lake Bog	Washington County T9N R19E Section 25 Village 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

Table 8 (continued)

Site Name	Location	Proposed Classification Code	Size (acres)	Ownership	Site Description
Little Oconomowoc River Woods and Wetlands	Washington County T9N R18E Section 33 Town of Erin	NA-3	226	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
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	Private	Tamarack relict, lowland hardwoods, and sedge fen

Table 8 (continued)

Site Name	Location	Proposed Classification Code	Size (acres)	Ownership	Site Description
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.

Seven new sites, totaling 275 acres, are located in Walworth County; five new sites, totaling 393 acres, are located in Washington County; three new sites, totaling 185 acres, are located in Kenosha County; two new sites, totaling 166 acres, are located in Racine County; and one new site, of 31 acres, is located in Ozaukee County. (Table 9).

NEW CRITICAL SPECIES HABITAT SITES

The updated natural areas plan proposes to add 133 new critical species habitat sites to the regional inventory (Map 20 and Table 10). These represent sites that support critical plant or animal species, as designated by the Wisconsin Department of Natural Resources, but do not reach at least NA-3 quality status according to the standards set forth in SEWRPC Planning Report No. 42. This list consists of areas not included under any ranking in the original plan, and does not include sites from the original plan whose classification has changed. These new sites total 4,692 acres. Milwaukee County contains the greatest number of new sites, 40, totaling 503 acres, and Waukesha County has 34 new sites, totaling 985 acres. Seventeen new sites, totaling 196 acres, are located in Kenosha County; 15 new sites, totaling 2,394 acres, are located in Walworth County; eight new sites, totaling 80 acres, are located in Racine County; 10 new sites, totaling 240 acres, are located in Ozaukee County; and nine new sites, totaling 294 acres, are located in Washington County (Table 9).

OTHER SITES

Using the Commission's aquatic-area evaluation scheme, it was determined that the highest-quality streams in the Region in 1990 included the Mukwonago River, reaches of the Milwaukee River, the Bark River, Bluff Creek, Riveredge Creek, and the upper reaches of Cedar Creek. Of a total of about 1,209 perennial stream-miles in the Region, about 103 stream-miles, or about 9 percent, were assigned an Aquatic Area rank of AQ-1, the highest; about 188 stream-miles, or about 16 percent, were assigned a rank of AQ-2; and about 446 stream-miles, or about 37 percent, were assigned a rank of AQ-3. The highest-quality lakes within the Region in 1990 included Beulah Lake, Lulu Lake, the Phantom Lakes, Pickerel Lake, Big Cedar Lake, Gilbert Lake, Nagawicka Lake, and Lowe's Lake, and Long Lake and Mud Lake within the Cedarburg Bog State Natural Area. Within the Region in 1990 there was a total of 198 lakes generally 10 acres or more in water-surface area, having a combined water-surface area of about 38,495 acres. Of these lakes, lakes with a total water-surface area of about 3,723 acres, or about 10 percent of the total water-surface area involved, were assigned an Aquatic Area rank of AQ-1, the highest; lakes with a total water-surface area of about 20,965 acres, or about 54 percent of the total water-surface area involved, were assigned an Aquatic Area rank of AQ-2; and lakes with a total water-surface area of about 9,879 acres, or about 26 percent of the total water-surface area involved, were assigned an Aquatic Area rank of AQ-3.

Table 9

SUMMARY OF NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IDENTIFIED SINCE PREPARATION OF SEWRPC PLANNING REPORT NUMBER 42

Classification Code ^a	County							
	Kenosha		Milwaukee		Ozaukee		Racine	
	No. of Sites	Area (acres)	No. of Sites	Area (acres)	No. of Sites	Area (acres)	No. of Sites	Area (acres)
NA-1	--	--	--	--	--	--	--	--
NA-2	1	12	1	37	1	31	1	94
NA-3	2	173	12	404	--	--	1	72
CSH	17	196	40	503	10	240	8	80
Total	20	381	53	944	11	271	10	246

Classification Code ^a	County						Regional Totals	
	Walworth		Washington		Waukesha			
	No. of Sites	Area (acres)	No. of Sites	Area (acres)	No. of Sites	Area (acres)	No. of Sites	Area (acres)
NA-1	--	--	--	--	--	--	--	--
NA-2	2	28	--	--	--	--	6	202
NA-3	5	247	5	393	13	542	38	1,831
CSH	15	2,394	9	294	34	985	133	4,692
Total	22	2,669	14	687	47	1,527	177	6,725

^a NA-1 indicates natural area of statewide or greater significance.
 NA-2 indicates natural area of regional or countywide significance.
 NA-3 indicates natural area of local significance.
 CSH indicates critical species habitat area.

Source: SEWRPC.

No information concerning new Aquatic or Archaeological sites in the Region has been acquired by the Commission. However, one additional 47-acre geological area of local significance (GA-3)—the West Bend Kames—in Washington County has been identified.

RELATIONSHIP OF NEWLY IDENTIFIED SITES TO PRIMARY ENVIRONMENTAL CORRIDORS

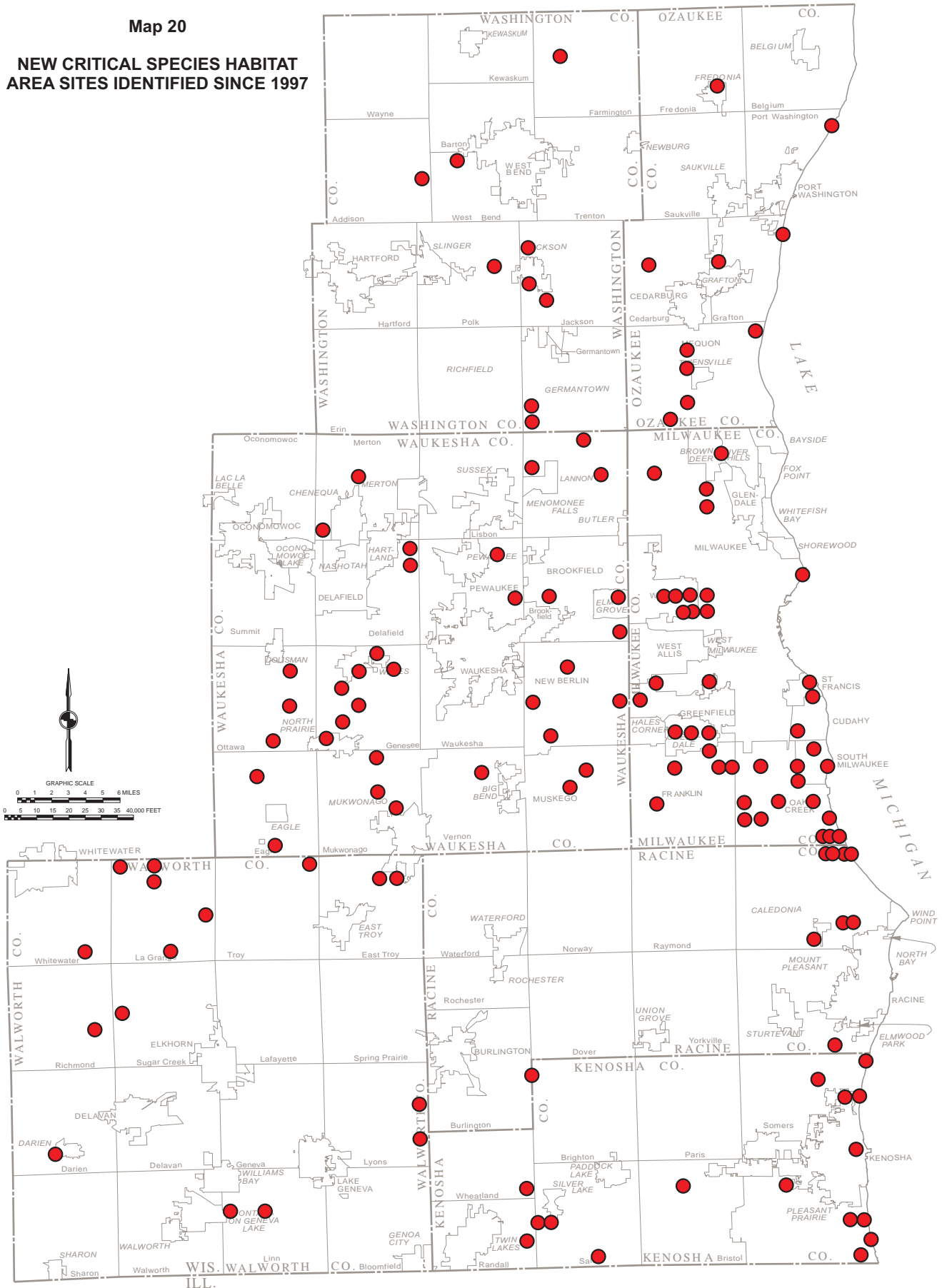
Of the 44 newly identified natural areas, 27 sites, or 61 percent of the total, are located within Commission-delineated primary environmental corridors (PEC) (Table 11), and 17 sites are located outside of PECs. On an areal basis, 1,496 acres, or 74 percent of the total, are located within such corridors. Of the 133 newly identified critical species habitat areas, 60 sites, or 45 percent of the total, are located entirely within Commission-delineated primary environmental corridors (PEC) (Table 12). Six critical species habitat areas are located partially within a PEC, while the remaining 67 are located outside of PECs. On an areal basis, 3,808 acres, or 81 percent of the total, are located within such corridors. The original plan recommended the adjustment of Commission-delineated primary environmental corridor boundaries to fully encompass inventoried natural areas and critical species habitat sites found to be partially within such boundaries.

SUMMARY

In summary, 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 herein documented. Detailed descriptions and plant associations of each site have been coordinated and shared with the Wisconsin Department of Natural Resources, Bureau of Endangered Resources.

Map 20

**NEW CRITICAL SPECIES HABITAT
AREA SITES IDENTIFIED SINCE 1997**



Source: SEWRPC.

Table 10

**ADDITIONAL CRITICAL SPECIES HABITAT AREAS LOCATED
SINCE PREPARATION OF SEWRPC PLANNING REPORT NUMBER 42**

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Bain Station Low Prairie—East	Kenosha County T1N R22E Section 9 Village of Pleasant Prairie	23	WE Energies	<i>Asclepias sullivantii</i> (T) (Sullivant's milkweed)
Berryville Woods	Kenosha County T2N R23E Section 5 Town of Somers	3	Private	<i>Nyssa sylvatica</i> (SC) (black gum)
Bourque Low Prairie	Kenosha County T1N R23E Section 31 Village of Pleasant Prairie	4	Private	<i>Phlox glaberrima</i> (E) (smooth phlox)
Carol Beach Oak Woods	Kenosha County T1N R23E Section 31 Village of Pleasant Prairie	3	Private	<i>Trillium recurvatum</i> (SC) (red trillium)
Carol Beach Parcel No. 2	Kenosha County T1N R23E Section 29 Village of Pleasant Prairie	2	Private	<i>Solidago ohioensis</i> (SC) (Ohio goldenrod) <i>Liatris spicata</i> (SC) (marsh blazing star)
Fox River Park Low Woods and Sedge Meadow	Kenosha County T1N R20E Section 19 Town of Salem	44	Kenosha County and private	<i>Platanus occidentalis</i> (SC) (sycamore)
Fox River Park Woods	Kenosha County T1N R20E Section 19 Town of Salem	10	Kenosha County	<i>Trillium recurvatum</i> (SC) (red trillium)
Janice Prairie	Kenosha County T1N R23E Section 19 Village of Pleasant Prairie	3	Private	<i>Liatris spicata</i> (SC) (marsh blazing star)
Kenosha Bike Trail Prairie	Kenosha County T2N R22E Section 13 T2N R23E Section 18 City of Kenosha	3	Kenosha County	<i>Asclepias sullivantii</i> (T) (Sullivant's milkweed) <i>Liatris spicata</i> (SC) (marsh blazing star) <i>Thalictrum revolutum</i> (SC) (waxy meadow rue)
Kotrba Wetland	Kenosha County T1N R19E Section 12 Town of Wheatland	15	Private	<i>Cypripedium parviflorum</i> (SC) (small yellow lady's slipper)
Louvain Old Field	Kenosha County T1N R21E Section 9 Town of Bristol	1	Private	<i>Hypericum sphaerocarpum</i> (T) (roundfruit St. John's-wort)
Parkside Ski Trail Woods	Kenosha County T2N R22E Section 11 Town of Somers	28	University of Wisconsin—Parkside	<i>Trillium recurvatum</i> (SC) (red trillium)
Pleasant Prairie PCA No. 8	Kenosha County T1N R23E Section 19 Village of Pleasant Prairie	1	Wisconsin Department of Natural Resources	<i>Coreopsis lanceolata</i> (SC) (lanceleaf coreopsis)
Poerio Park Woods	Kenosha County T2N R23E Section 18 City of Kenosha	16	City of Kenosha and private	<i>Trillium recurvatum</i> (SC) (red trillium)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Rock Lake Woods	Kenosha County T1N R20E Section 34 Town of Salem	8	Private	<i>Trillium recurvatum</i> (SC) (red trillium)
Wilmot Stream Woodland	Kenosha County T1N R19E Section 25 Town of Randall	8	Wilmot Union High School	<i>Agastache nepetoides</i> (T) (yellow giant hyssop)
35 th Street Woods	Milwaukee County T5N R21E Section 12 City of Franklin	14	Private	<i>Viburnum prunifolium</i> (SC) (black haw)
Army Reserve Woods	Milwaukee County T8N R21E Section 26 City of Milwaukee	11	U.S. Army	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Bender Clay Banks and Ravine—South	Milwaukee County T5N R22E Section 36 City of Oak Creek	2	Milwaukee County	<i>Triglochin palustre</i> (SC) (slender bog arrow-grass)
Bender Park Stream and Meadow	Milwaukee County T5N R22E Section 25 City of Oak Creek	2	Milwaukee County	<i>Thalictrum revolutum</i> (SC) (red trillium)
Blakewood School Woods	Milwaukee County T5N R22E Section 15 City of South Milwaukee	1	Blakewood School	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Camelot Park Woods	Milwaukee County T5N R22E Section 10 City of Oak Creek	15	Milwaukee County	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Clay Ravine Woods	Milwaukee County T5N R22E Section 36 City of Oak Creek	12	WE Energies	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Cold Spring Road Thicket	Milwaukee County T6N R21E Section 19 City of Greenfield	2	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Countryside Woods	Milwaukee County T5N R21E Section 12 City of Franklin	26	City of Franklin and Milwaukee Metropolitan Sewerage District	<i>Trillium recurvatum</i> (SC) (red trillium) <i>Viburnum prunifolium</i> (SC) (black haw)
County Grounds Woods	Milwaukee County T7N R21E Section 21 City of Wauwatosa	10	Milwaukee County	<i>Aster furcatus</i> (T) (forked aster)
Cudahy Park Woods	Milwaukee County T6N R22E Section 34 City of Cudahy	4	Milwaukee County	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Doyne Park Woods	Milwaukee County T7N R21E Section 26 City of Milwaukee	4	Milwaukee County	<i>Ptelea trifoliata</i> (SC) (hoptree)
Grange Avenue Woods	Milwaukee County T6N R21E Section 33 Village of Greendale	14	Milwaukee County	<i>Ptelea trifoliata</i> (SC) (hoptree)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Greene Park Woods	Milwaukee County T6N R22E Section 23 City of St. Francis	7	Milwaukee County	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Greentree Road Woods	Milwaukee County T8N R21E Section 23 City of Milwaukee	5	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Hart Park/Psychiatric Hospital Woods	Milwaukee County T7N R21E Section 22 City of Wauwatosa	41	Milwaukee County	<i>Aster furcatus</i> (T) (forked aster) <i>Hydrastis canadensis</i> (SC) (golden seal) <i>Jeffersonia diphylla</i> (SC) (twinleaf) <i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon) <i>Ptelea trifoliata</i> (SC) (hoptree) <i>Viburnum prunifolium</i> (SC) (black haw)
Harwood Avenue Woods	Milwaukee County T7N R21E Section 21 City of Wauwatosa	46	Milwaukee County	<i>Aster furcatus</i> (T) (forked aster) <i>Jeffersonia diphylla</i> (SC) (twinleaf) <i>Ptelea trifoliata</i> (SC) (hoptree)
Hawthorn Glen	Milwaukee County T7N R21E Section 23 City of Milwaukee	16	Milwaukee County	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon) <i>Ptelea trifoliata</i> (SC) (hoptree)
Holt Park Woods	Milwaukee County T6N R21E Section 17 City of Greenfield	8	Milwaukee County	<i>Trillium recurvatum</i> (SC) (red trillium)
Honey Creek Parkway Woods	Milwaukee County T7N R21E Section 27 City of West Allis	5	Milwaukee County	<i>Aster furcatus</i> (T) (forked aster) <i>Ptelea trifoliata</i> (SC) (hoptree)
Howell Avenue Woods	Milwaukee County T5N R22E Section 21 City of Oak Creek	21	Private	<i>Viburnum prunifolium</i> (SC) (black haw)
Industrial Park Mesic Woods	Milwaukee County T5N R22E Section 8 City of Oak Creek	5	Private	<i>Hydrastis canadensis</i> (SC) (golden seal)
Lake Park Woods	Milwaukee County T7N R22E Section 14, 15 City of Milwaukee	46	Milwaukee County	<i>Trillium recurvatum</i> (SC) (red trillium)
Loomis Road Woods	Milwaukee County T5N R21E Section 9 City of Franklin	13	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon) <i>Trillium recurvatum</i> (SC) (red trillium)
Lyons Park Woods	Milwaukee County T6N R21E Section 14 City of Milwaukee	6	Milwaukee County	<i>Trillium recurvatum</i> (SC) (red trillium)
Menomonee River PCA No. 10	Milwaukee County T7N R21E Section 27 City of Wauwatosa	3	Milwaukee County	<i>Ptelea trifoliata</i> (SC) (hoptree)
Oak Creek Bluffs and Beach—North	Milwaukee County T5N R22E Section 12 City of South Milwaukee	4	Milwaukee County	<i>Solidago ohioensis</i> (SC) (Ohio goldenrod) <i>Tofieldia glutinosa</i> (SC) (false asphodel)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Oak Creek Bluffs and Beach—South	Milwaukee County T5N R22E Section 36 T5N R23E Section 31 City of Oak Creek	24	Milwaukee County	<i>Cakile edentula</i> (SC) (sea rocket)
Oak Creek Parkway Bike Trail Woods	Milwaukee County T5N R22E Section 2 City of South Milwaukee	2	Milwaukee County	<i>Solidago caesia</i> (SC) (blue-stemmed goldenrod)
Puetz Road Woods	Milwaukee County T5N R22E Section 19 City of Oak Creek	22	Private	<i>Trillium recurvatum</i> (SC) (red trillium) <i>Viburnum prunifolium</i> (SC) (black haw)
Russell Avenue Woods	Milwaukee County T5N R21E Section 2 City of Franklin	9	Private	<i>Trillium recurvatum</i> (SC) (red trillium)
Ryan Road Upland Woods—East	Milwaukee County T5N R22E Section 29 City of Oak Creek	4	Milwaukee County	<i>Viburnum prunifolium</i> (SC) (black haw)
Schmidt/Johnson Woods	Milwaukee County T5N R22E Section 23 City of Oak Creek	6	Private	<i>Viburnum prunifolium</i> (SC) (black haw)
Scout Lake Park Woods	Milwaukee County T6N R21E Section 35 Village of Greendale	43	Milwaukee County	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Shooting Star Prairie and Shrubland (Carity Prairie)	Milwaukee County T5N R21E Section 20 City of Franklin	18	Milwaukee Area Land Conservancy and private	<i>Gentiana alba</i> (T) (cream gentian)
Silver Maple Island	Milwaukee County T8N R21E Section 12 Village of Brown Deer	1	Bureau of Land Management	<i>Hasteola suaveolens</i> (SC) (sweet Indian plantain)
Trestle Ravine Woods	Milwaukee County T6N R22E Section 14 City of St. Francis	3	WE Energies	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Truck Stop Woods	Milwaukee County T5N R22E Section 30 City of Oak Creek	11	Private	<i>Trillium recurvatum</i> (SC) (red trillium) <i>Viburnum prunifolium</i> (SC) (black haw)
West Granville Mesic Woods	Milwaukee County T8N R21E Section 17 City of Milwaukee	8	Private	<i>Hydrastis canadensis</i> (SC) (golden seal)
Westway Woods	Milwaukee County T6N R21E Section 34 Village of Greendale	9	Village of Greendale	<i>Trillium recurvatum</i> (SC) (red trillium)
Bike Path Island	Ozaukee County T10N R21E Section 13 Village of Grafton	1	Bureau of Land Management	<i>Hasteola suaveolens</i> (SC) (sweet Indian plantain)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Garvey Woods	Ozaukee County T9N R21E Section 27 City of Mequon	10	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Gengler's Woods	Ozaukee County T9N R21E Section 33 City of Mequon	4	City of Mequon	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Heinen Woods	Ozaukee County T12N R21E Section 26 Town of Fredonia	32	Private	<i>Aster furcatus</i> (T) (forked aster)
Highland Woods	Ozaukee County T9N R21E Section 15 City of Mequon	48	Ozaukee Washington Land Trust	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Meekwon Park Woods	Ozaukee County T9N R21E Section 10 City of Mequon	40	Ozaukee County and private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Port Washington Beach and Dunes	Ozaukee County T11N R22E Sections 1, 11 Town of Port Washington	29	Private	<i>Calamoviifa longifolia</i> (T) (sand reed grass) <i>Elytrigia dasystachya</i> (T) (thickspike wheatgrass) <i>Cakile edentula</i> (SC) (sea rocket)
Port Washington Clay Banks	Ozaukee County T10N R22E Sections 3, 10 Town of Grafton	35	Private	<i>Asio flammeus</i> (SC) (short-eared owl)
Union Pacific Right-of-Way	Ozaukee County T9N R22E Section 5 City of Mequon	1	Private	<i>Aster furcatus</i> (T) (forked aster)
Woodland Meadows Woods	Ozaukee County T10N R21E Section 17 Town of Cedarburg	40	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Caledonia Low Woods—South	Racine County T4N R23E Section 30 Village of Caledonia	30	Private	<i>Ptelea trifoliata</i> (SC) (hoptree) <i>Trillium recurvatum</i> (SC) (red trillium)
Lakeside Woods	Racine County T4N R23E Section 6 Village of Caledonia	2	WE Energies	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Mt. Tom Woods	Racine County T2N R19E Section 1 Town of Burlington Kenosha County T2N R20E Section 6, 7 Town of Brighton	24	Private and Town of Burlington	<i>Eupatorium sessilifolium</i> (SC) (upland boneset)
Root River Ravine Woods	Racine County T4N R23E Section 30 Village of Caledonia	5	WE Energies	<i>Trillium recurvatum</i> (SC) (red trillium)
STH 38/CTH K	Racine County T4N R22E Section 35 Village of Caledonia	4	Private	<i>Trillium recurvatum</i> (SC) (red trillium)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
WEPCO Oak Woods	Racine County T4N R22E Section 1 Village of Caledonia	14	WE Energies	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
WEPCO Woods	Racine County T4N R22E Section 1 Village of Caledonia	18	WE Energies	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Willow Woods	Racine County T3N R22E Section 36 Village of Mt. Pleasant	4	Private	<i>Trillium recurvatum</i> (SC) (red trillium)
Wood Duck Woods	Racine County T4N R23E Section 6 Village of Caledonia	3	WE Energies	<i>Solidago caesia</i> (E) (blue-stemmed goldenrod)
Anderson Bog	Walworth County T4N R18E Section 10 Town of East Troy	1	Private	<i>Epilobium strictum</i> (SC) (downy willow-herb)
Bennett Dry Prairie	Walworth County T4N R16E Section 6 Town of LaGrange	3	Private	<i>Besseyia bullii</i> (T) (kittentails)
Darien Railroad Prairie Remnant	Walworth County T2N R15E Sections 28, 33 Town of Darien	1	Private	<i>Ruellia humilis</i> (E) (wild petunia) <i>Asclepias sullivantii</i> (T) (Sullivant's milkweed)
Duffin Road Dry Prairie	Walworth County T4N R16E Section 9 Town of LaGrange	1	Wisconsin Department of Natural Resources	<i>Besseyia bullii</i> (T) (kittentails)
Eastwood Estates Woods	Walworth County T4N R18E Section 11 Town of East Troy	5	Private	<i>Ptelea trifoliata</i> (SC) (hoptree)
Emerson Esker Prairie	Walworth County T4N R16E Section 4 Town of LaGrange	1	Wisconsin Department of Natural Resources	<i>Besseyia bullii</i> (T) (kittentails)
Horn Dry Prairie	Walworth County T4N R17E Section 1 Town of Troy	5	Private	<i>Besseyia bullii</i> (T) (kittentails)
Juniper Knoll Camp Woods	Walworth County T4N R16E Section 24 Town of LaGrange	98	Private	<i>Besseyia bullii</i> (T) (kittentails)
Lyons Woods	Walworth County T1N R17E Section 18 Village of Fontana	35	Private	<i>Phegopteris hexagonoptera</i> (SC) (broad beech fern)
Middle Lake Sedge Mat	Walworth County T4N R16E Section 34 Town of LaGrange	3	State of Wisconsin Public Trust Lands	<i>Epilobium strictum</i> (SC) (downy willow-herb)
Roden Oak Woods	Walworth County T2N R18E Section 13 Town of Lyons	41	Private	<i>Besseyia bullii</i> (T) (kittentails)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Seno Oak Opening	Walworth County T2N R18E Section 25 Town of Lyons	2	Private—Protected through conservation easement	<i>Besseyia bullii</i> (T) (kittentails)
Town of Linn Park	Walworth County T1N R17E Section 16 Town of Linn	153	Town of Linn	<i>Ammodramus henslowii</i> (T) (Henslow's sparrow) <i>Sturnella magna</i> (SC) (eastern meadowlark) <i>Dolichonyx oryzivorus</i> (SC) (bobolink) <i>Passerculus sandwichensis</i> (SC) (savannah sparrow) <i>Ammodramus savannarum</i> (SC) (grasshopper sparrow)
Turtle Valley Wildlife Area	Walworth County T3N R15E Sections 23, 24, 26 Town of Richmond T3N R16E Sections 18, 19 Town of Sugar Creek	2,042	Wisconsin Department of Natural Resources Wisconsin Department of Transportation	<i>Grus americana</i> (E) (whooping crane) <i>Sterna forsteri</i> (E) (Forster's tern) <i>Ardea alba</i> (T) (great egret) <i>Ardea herodias</i> (SC) (great blue heron) <i>Anas acuta</i> (SC) (northern pintail) <i>Aythya americana</i> (SC) (redhead) <i>Circus cyaneus</i> (SC) (northern harrier) <i>Botaurus lentiginosus</i> (SC) (American bittern) <i>Ixobrychus exilis</i> (SC) (least bittern) <i>Gallinula chloropus</i> (SC) (common moorhen) <i>Bartramia longicauda</i> (SC) (upland sandpiper) <i>Steganopus tricolor</i> (SC) (Wilson's phalarope) <i>Chlidonias niger</i> (SC) (black tern) <i>Coccyzus americanus</i> (SC) (yellow-billed cuckoo) <i>Sturnella neglecta</i> (SC) (western meadowlark) <i>Spiza americana</i> (SC) (dickcissel) <i>Ammodramus savannarum</i> (SC) (grasshopper sparrow)
Whitewater Lake Island Woods	Walworth County T4N R15E Section 35 Town of Whitewater	3	Wisconsin Department of Natural Resources	<i>Besseyia bullii</i> (T) (kittentails)
Cedar Creek Fen	Washington County T10N R19E Section 14 Town of Polk	4	Wisconsin Department of Natural Resources	<i>Solidago ohioensis</i> (SC) (Ohio goldenrod)
Chinkapin Oak Woods	Washington County T10N R20E Section 29 Town of Jackson	11	Private	<i>Quercus muehlenbergii</i> (SC) (chinkapin oak)
Friedens Creek Woods	Washington County T10N R20E Section 7 Town of Jackson	12	Private	<i>Quercus muehlenbergii</i> (SC) (chinkapin oak)
Gilbert Lake Disturbed Woods	Washington County T11N R19E Section 17 Town of West Bend	85	Private	<i>Cypripedium pubescens</i> (SC) (large yellow lady's slipper)
Lamm Woods	Washington County T10N R20E Section 19 Town of Jackson	20	Private	<i>Quercus muehlenbergii</i> (SC) (chinkapin oak) <i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Nabob Upland Woods	Washington County T11N R18E Section 24 Town of Addison	75	Private	<i>Taxus canadensis</i> (SC) (Canada yew)
STH 28 Woodland	Washington County T12N R20E Section 17 Town of Farmington	12	Private	<i>Aster furcatus</i> (T) (forked aster)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Wheaton Woods	Washington County T9N R20E Section 30 Village of Germantown	13	Private	<i>Aster furcatus</i> (T) (forked aster)
Willow Creek Swamp	Washington County T9N R20E Section 31 Village of Germantown	62	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Borrow Pit Prairie	Waukesha County T6N R18E Section 11 Town of Genesee	3	Wisconsin Department of Natural Resources	<i>Besseyia bullii</i> (T) (kittentails)
Brookfield Oak Woods	Waukesha County T7N R20E Section 20 City of Brookfield	4	Private	<i>Ptelea trifoliata</i> (SC) (hoptree)
Campground Woods	Waukesha County T8N R20E Sections 7, 18 Village of Menomonee Falls	116	Waukesha County and private	<i>Cypripedium pubescens</i> (SC) (large yellow lady's slipper)
CTH M Shrubland	Waukesha County T7N R19E Section 24 City of Pewaukee	41	Private	<i>Ptelea trifoliata</i> (SC) (hoptree)
Dragon Fen	Waukesha County T6N R18E Section 3 Town of Genesee	1	Private	<i>Eleocharis rostellata</i> (T) (beaked spike-rush) <i>Gentianopsis procera</i> (SC) (lesser fringed gentian) <i>Triglochin maritima</i> (SC) (common bog arrow-grass)
Dunlop Dry-Mesic Prairie	Waukesha County T5N R18E Section 3 Town of Mukwonago	9	Waukesha County	<i>Besseyia bullii</i> (T) (kittentails)
Greenwald Woods	Waukesha County T5N R18E Section 23 Village of Mukwonago	58	Wisconsin Department of Natural Resources, Village of Mukwonago, and private	<i>Besseyia bullii</i> (T) (kittentails)
Grush Road Dry Prairie	Waukesha County T6N R18E Section 29 Town of Genesee	4	Private	<i>Besseyia bullii</i> (T) (kittentails)
Janesville Road Woods	Waukesha County T5N R20E Section 10 City of Muskego	2	Private	<i>Trillium recurvatum</i> (SC) (red trillium)
Jungbluth Road Railroad Prairie	Waukesha County T7N R18E Section 1 Town of Delafield	2	Waukesha County and private	<i>Gentiana alba</i> (T) (cream gentian) <i>Solidago ohioensis</i> (SC) (Ohio goldenrod)
Kettle Moraine Recovering Prairie	Waukesha County T5N R17E Section 9 Town of Eagle	17	Wisconsin Department of Natural Resources	<i>Agrimonia parviflora</i> (SC) (swamp agrimony)
Kinsey Park Woods	Waukesha County T7N R20E Section 36 City of Brookfield	7	City of Brookfield and private	<i>Trillium recurvatum</i> (SC) (red trillium)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Lunt-Fontanne Park Prairie	Waukesha County T6N R18E Section 21 Town of Genesee	20	Town of Genesee and private	<i>Penstemon hirsutus</i> (SC) (hairy beard-tongue)
Menomonee River Parkway Woods	Waukesha County T8N R20E Section 3 Village of Menomonee Falls	7	Waukesha County	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Mill Brook Fen	Waukesha County T5N R19E Section 10 Town of Vernon	13	Private	<i>Solidago ohioensis</i> (SC) (Ohio goldenrod)
Nashotah Park Woods	Waukesha County T8N R18E Section 31 Town of Merton	106	Waukesha County	<i>Corallorhiza odontorhiza</i> (SC) (late coral-root orchid)
Nature Road Oak Savanna	Waukesha County T5N R17E Section 34 Town of Eagle	44	Private	<i>Besseyia bullii</i> (T) (kittentails)
North Lake Low Woods	Waukesha County T8N R18E Section 16 Town of Merton	38	Private	<i>Aster furcatus</i> (T) (forked aster)
North Prairie Dry Prairie	Waukesha County T6N R18E Section 31 Town of Genesee	1	Private	<i>Besseyia bullii</i> (T) (kittentails)
Old Muskego Settlement Woods	Waukesha County T5N R20E Section 16 City of Muskego	18	City of Muskego and private	<i>Trillium recurvatum</i> (SC) (red trillium)
Ottawa Lake Dry Woods	Waukesha County T6N R17E Section 34 Town of Ottawa	13	Wisconsin Department of Natural Resources	<i>Aster furcatus</i> (T) (forked aster) <i>Besseyia bullii</i> (T) (kittentails)
PEL 1134 Oak Opening	Waukesha County T6N R17E Section 23 Town of Ottawa	141	Wisconsin Department of Natural Resources	<i>Besseyia bullii</i> (T) (kittentails)
Roberts Oak Opening	Waukesha County T6N R18E Section 9 Town of Genesee	4	Private	<i>Besseyia bullii</i> (T) (kittentails)
Schanke Property	Waukesha County T6N R18E Section 17 Town of Genesee	32	Private	<i>Besseyia bullii</i> (T) (kittentails)
Schkeryantz Woods	Waukesha County T6N R20E Section 24 City of New Berlin	6	Private	<i>Trillium recurvatum</i> (SC) (red trillium)
Spring Valley Woods	Waukesha County T6N R20E Section 32 City of New Berlin	14	Muskego Lakes Land Conservancy, Linnie Lac Management District, and private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon) <i>Trillium recurvatum</i> (SC) (red trillium)

Table 10 (continued)

Site Name	Location	Size (acres)	Ownership	Critical Plant or Animal Species ^a
Stephenson Shrubby Fen	Waukesha County T6N, R17E Section 11 Town of Ottawa	27	Private	<i>Cypripedium candidum</i> (T) (small white lady's slipper) <i>Solidago ohioensis</i> (SC) (Ohio goldenrod)
Stigler Woods	Waukesha County T6N R20E Section 9 City of New Berlin	53	City of New Berlin and private	<i>Scutellaria ovata</i> (SC) (heartleaved skullcap)
Stonegate Dry Prairie	Waukesha County T5N R18E Section 15 Town of Mukwonago	3	Private	<i>Besseyia bullii</i> (T) (kittentails)
Swan Farms Woods	Waukesha County T7N R19E Sections 2, 11 City of Pewaukee	71	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Swartz Woods	Waukesha County T6N R20E Section 19 City of New Berlin	36	Private	<i>Trillium recurvatum</i> (SC) (red trillium)
Taylor Road Woods	Waukesha County T7N R18E Section 12 Town of Delafield	30	Private	<i>Corallorhiza odontorhiza</i> (SC) (late coral-root orchid)
Thorndell Avenue Woods	Waukesha County T8N R20E Section 14 Village of Menomonee Falls	15	Private	<i>Carex formosa</i> (T) (handsome sedge) <i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)
Underwood Creek Woods	Waukesha County T7N R20E Section 24 Village of Elm Grove	25	Private	<i>Lithospermum latifolium</i> (SC) (broad-leaved puccoon)

^a"E" refers to species designated as endangered in Wisconsin.

"T" refers to species designated as threatened in Wisconsin.

"SC" refers to species designated as special concern in Wisconsin.

Source: SEWRPC.

Table 11

**RELATIONSHIP OF NEWLY IDENTIFIED NATURAL AREAS TO
COMMISSION-DELINEATED PRIMARY ENVIRONMENTAL CORRIDORS (PEC)**

Site Name	Location	Proposed Classification Code	Ownership	Relationship to Primary Environmental Corridor (PEC)	
				Within PEC (acres)	Outside PEC (acres)
First Avenue Prairie	Kenosha County T1N R23E Sections 29, 30 Village of Pleasant Prairie	NA-2	Wisconsin Department of Natural Resources	12	0
Abbott Woods and Ravine	Ozaukee County T10N R22E Sections 21, 28 Town of Grafton	NA-2	Private, protected through conservation easement with Ozaukee Washington Land Trust	31	0
Colonial Park Woods	Racine County T3N R23E Section 8 City of Racine	NA-2	Racine County	94	0
Center Lake Woods and Wetlands	Kenosha County T1N R20E Sections 21, 22 Town of Salem	NA-3	Town of Salem and private	72	0
Silver Lake Wetlands	Kenosha County T1N R20E Section 8 Town of Salem	NA-3	Private	101	0
Adams Prairie	Milwaukee County T5N R21E Section 32 City of Franklin	NA-2	Private	0	37
60 th Street Woods	Milwaukee County T5N R21E Section 27 City of Franklin	NA-3	Milwaukee County	0	11
Bike Trail Marsh	Milwaukee County T5N R21E Section 3 City of Franklin	NA-3	Milwaukee County	0	3
Glenwood School Woods	Milwaukee County T6N R21E Section 14 City of Milwaukee	NA-3	Glenwood School	0	7
Granville Low Woods	Milwaukee County T8N R21E Section 6 City of Milwaukee	NA-3	Milwaukee Metropolitan Sewerage District	0	50
Grootemaat Woods	Milwaukee County T6N R21E Section 35 Village of Greendale	NA-3	City of Greenfield	0	20
McGovern Park Woods	Milwaukee County T8N R21E Section 35 City of Milwaukee	NA-3	Milwaukee County	0	14
Mitchell's Woods	Milwaukee County T6N R21E Section 11 City of Milwaukee	NA-3	Milwaukee County	0	37

Table 11 (continued)

Site Name	Location	Proposed Classification Code	Ownership	Relationship to Primary Environmental Corridor (PEC)	
				Within PEC (acres)	Outside PEC (acres)
Oak Creek Parkway Woods	Milwaukee County T5N R22E Sections 11, 12 City of Oak Creek	NA-3	Milwaukee County	24	0
Root River Bike Trail Woods	Milwaukee County T5N R21E Section 15 City of Franklin	NA-3	Milwaukee County	108	0
Root River Low and Upland Woods	Milwaukee County T5N R21E Section 3 City of Franklin	NA-3	Milwaukee County	0	76
Ryan Road Woods	Milwaukee County T5N R22E Section 29 City of Oak Creek	NA-3	Milwaukee County and private	0	42
West Branch Root River Woods	Milwaukee County T6N R21E Section 7 City of West Allis	NA-3	Private	0	12
Hoods Creek Woods	Racine County T3N R22E Section 3 Village of Mt. Pleasant	NA-3	Private	0	72
Bluff Creek Prairie	Walworth County T4N R15E Section 23 Town of Whitewater	NA-2	Wisconsin Department of Natural Resources	21	0
CTH C Lowland	Walworth County T1N R15E Section 4 Town of Sharon	NA-3	Wisconsin Department of Natural Resources	0	60
East Troy Bog	Walworth County T4N R18E Sections 7, 18 Town of East Troy	NA-3	Private	6	0
Jackson Creek Wetlands	Walworth County T2N R17E Section 7 City of Elkhorn	NA-3	Kettle Moraine Land Trust	22	0
Oak Hill Cemetery Woods	Walworth County T2N R17E Section 25 City of Lake Geneva and Town of Geneva	NA-3	Private	136	2
Turtle Lake Fen	Walworth County T3N R15E Section 14 Town of Richmond	NA-3	Wisconsin Department of Natural Resources	21	0
Voskuil Dry Prairie	Walworth County T2N R15E Section 1 Town of Darien	NA-2	Private	0	7
Amy Bell Lake Bog	Washington County T9N R19E Section 25 Village of Richfield	NA-3	Private	5	0

Table 11 (continued)

Site Name	Location	Proposed Classification Code	Ownership	Relationship to Primary Environmental Corridor (PEC)	
				Within PEC (acres)	Outside PEC (acres)
Kohlsville River Upland Woods and Wetlands	Washington County T11N R19E Section 7 Town of Barton	NA-3	Private	100	0
Little Oconomowoc River Woods and Wetlands	Washington County T9N R18E Section 33 Town of Erin	NA-3	Washington County and private	226	0
Pike Lake Wetlands—South	Washington County T10N R18E Section 23, 26 Town of Hartford	NA-3	Wisconsin Department of Natural Resources	37	0
Regner Park Woods	Washington County T11N R19E Section 11 City of West Bend	NA-3	City of West Bend	25	0
Colgate Road Swamp and Woods	Waukesha County T8N R19E Section 2 Town of Lisbon	NA-3	Private	170	0
Dousman Road Fen-Meadow	Waukesha County T7N R17E Section 33 Town of Summit	NA-3	Private	3	0
Eagle Spring Lake Bog, Woods, and Prairie	Waukesha County T5N R17E Section 1 Town of Eagle Walworth County T4N R17E Section 36 Town of Troy	NA-3	Wisconsin Department of Natural Resources and private	66	0
Golf Cliff Ridge and Woods	Waukesha County T7N R18E Section 23 Town of Delafield	NA-3	Private	0	8
Merton Millpond and Woods	Waukesha County T8N R18E Section 13 Town of Merton T8N R19E Section 18 Town of Lisbon	NA-3	Village of Merton and private	66	0
Ottawa Lake Prairie	Waukesha County T6N R17E Section 34 Town of Ottawa	NA-3	Wisconsin Department of Natural Resources	12	0
Pebble Creek Woods—North	Waukesha County T6N R19E Section 22 Town of Waukesha	NA-3	Private	9	0
Pebble Creek Woods—South	Waukesha County T6N R19E Section 22 Town of Waukesha	NA-3	Private	15	0

Table 11 (continued)

Site Name	Location	Proposed Classification Code	Ownership	Relationship to Primary Environmental Corridor (PEC)	
				Within PEC (acres)	Outside PEC (acres)
Prairie Wind Farms Woods	Waukesha County T7N R18E Section 2 Town of Delafield	NA-3	Private	0	22
Pretty Lake Tamarack Relict	Waukesha County T6N R17E Sections 21, 28 Town of Ottawa	NA-3	Private	84	0
Reinke Sedge Fen	Waukesha County T5N R19E Section 26 Town of Vernon	NA-3	Private	6	12
Ryan Road Swamp	Waukesha County T5N R20E Section 24 City of Muskego	NA-3	Private	0	45
Vernon Marsh Low Woods	Waukesha County T5N R19E Section 5 Town of Vernon	NA-3	Wisconsin Department of Natural Resources	24	0
Total	--	--	--	1,496	537

Source: SEWRPC.

Table 12

**RELATIONSHIP OF NEWLY IDENTIFIED CRITICAL SPECIES HABITAT AREAS
TO COMMISSION-DELINEATED PRIMARY ENVIRONMENTAL CORRIDORS (PEC)**

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Bain Station Low Prairie—East	Kenosha County T1N R22E Section 9 Village of Pleasant Prairie	WE Energies	0	23
Berryville Woods	Kenosha County T2N R23E Section 5 Town of Somers	Private	0	3
Bourque Low Prairie	Kenosha County T1N R23E Section 31 Village of Pleasant Prairie	Private	0	4
Carol Beach Oak Woods	Kenosha County T1N R23E Section 31 Village of Pleasant Prairie	Private	0	3
Carol Beach Parcel No. 2	Kenosha County T1N R23E Section 29 Village of Pleasant Prairie	Private	2	0
Fox River Park Low Woods and Sedge Meadow	Kenosha County T1N R20E Section 19 Town of Salem	Private and Kenosha County	44	0
Fox River Park Woods	Kenosha County T1N R20E Section 19 Town of Salem	Kenosha County	10	0
Janice Prairie	Kenosha County T1N R23E Section 19 Village of Pleasant Prairie	Private	0	3
Kenosha Bike Trail Prairie	Kenosha County T2N R22E Section 13 T2N R23E Section 18 City of Kenosha	Kenosha County	0	3
Kotrba Wetland	Kenosha County T1N R19E Section 12 Town of Wheatland	Private	15	0
Louvain Old Field	Kenosha County T1N R21E Section 9 Town of Bristol	Private	1	0
Parkside Ski Trail Woods	Kenosha County T2N R22E Section 11 Town of Somers	University of Wisconsin—Parkside	28	0
Pleasant Prairie PCA No. 8	Kenosha County T1N R23E Section 19 Village of Pleasant Prairie	Wisconsin Department of Natural Resources	1	0

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Poerio Park Woods	Kenosha County T2N R23E Section 18 City of Kenosha	City of Kenosha	16	0
Rock Lake Woods	Kenosha County T1N R20E Section 34 Town of Salem	Private	0	8
Wilmot Stream Woodland	Kenosha County T1N R19E Section 25 Town of Randall	Wilmot Union High School	8	0
35 th Street Woods	Milwaukee County T5N R21E Section 12 City of Franklin	Private	0	14
Army Reserve Woods	Milwaukee County T8N R21E Section 26 City of Milwaukee	U.S. Army	0	11
Bender Clay Banks and Ravine— South	Milwaukee County T5N R22E Section 36 City of Oak Creek	Milwaukee County	2	0
Bender Park Stream and Meadow	Milwaukee County T5N R22E Section 25 City of Oak Creek	Milwaukee County	0	2
Blakewood School Woods	Milwaukee County T5N R22E Section 15 City of South Milwaukee	Blakewood School	0	1
Camelot Park Woods	Milwaukee County T5N R22E Section 10 City of Oak Creek	Milwaukee County	0	15
Clay Ravine Woods	Milwaukee County T5N R22E Section 36 City of Oak Creek	WE Energies	12	0
Cold Spring Road Thicket	Milwaukee County T6N R21E Section 19 City of Greenfield	Private	0	2
Countryside Woods	Milwaukee County T5N R21E Section 12 City of Franklin	City of Franklin and Milwaukee Metropolitan Sewerage District	0	26
County Grounds Woods	Milwaukee County T7N R21E Section 21 City of Wauwatosa	Milwaukee County	0	10
Cudahy Park Woods	Milwaukee County T6N R22E Section 34 City of Cudahy	Milwaukee County	0	4

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Doyne Park Woods	Milwaukee County T7N R21E Section 26 City of Milwaukee	Milwaukee County	4	0
Grange Avenue Woods	Milwaukee County T6N R21E Section 33 Village of Greendale	Milwaukee County	14	0
Greene Park Woods	Milwaukee County T6N R22E Section 23 City of St. Francis	Milwaukee County	0	7
Greentree Road Woods	Milwaukee County T8N R21E Section 23 City of Milwaukee	Private	0	5
Hart Park/Psychiatric Hospital Woods	Milwaukee County T7N R21E Section 22 City of Wauwatosa	Milwaukee County	41	0
Harwood Avenue Woods	Milwaukee County T7N R21E Section 21 City of Wauwatosa	Milwaukee County	46	0
Hawthorn Glen	Milwaukee County T7N R21E Section 23 City of Milwaukee	Milwaukee County	0	16
Holt Park Woods	Milwaukee County T6N R21E Section 17 City of Greenfield	Milwaukee County	0	8
Honey Creek Parkway Woods	Milwaukee County T7N R21E Section 27 City of West Allis	Milwaukee County	0	5
Howell Avenue Woods	Milwaukee County T5N R22E Section 21 City of Oak Creek	Private	0	21
Industrial Park Mesic Woods	Milwaukee County T5N R22E Section 8 City of Oak Creek	Private	0	5
Lake Park Woods	Milwaukee County T7N R22E Sections 14, 15 City of Milwaukee	Milwaukee County	46	0
Loomis Road Woods	Milwaukee County T5N R21E Section 9 City of Franklin	Private	0	13
Lyons Park Woods	Milwaukee County T6N R21E Section 14 City of Milwaukee	Milwaukee County	0	6

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Menomonee River PCA No. 10	Milwaukee County T7N R21E Section 27 City of Wauwatosa	Milwaukee County	3	0
Oak Creek Bluffs and Beach—North	Milwaukee County T5N R22E Section 12 City of South Milwaukee	Milwaukee County	4	0
Oak Creek Bluffs and Beach—South	Milwaukee County T5N R22E Section 36 T5N R23E Section 31 City of Oak Creek	Milwaukee County	24	0
Oak Creek Parkway Bike Trail Woods	Milwaukee County T5N R22E Section 2 City of South Milwaukee	Milwaukee County	0	2
Puetz Road Woods	Milwaukee County T5N R22E Section 19 City of Oak Creek	Private	0	22
Russell Avenue Woods	Milwaukee County T5N R21E Section 2 City of Franklin	Private	0	9
Ryan Road Upland Woods—East	Milwaukee County T5N R22E Section 29 City of Oak Creek	Milwaukee County	0	4
Schmidt/Johnson Woods	Milwaukee County T5N R22E Section 23 City of Oak Creek	Private	0	6
Scout Lake Park Woods	Milwaukee County T6N R21E Section 35 Village of Greendale	Milwaukee County	0	43
Shooting Star Prairie and Shrubland	Milwaukee County T5N R21E Section 20 City of Franklin	Private	0	18
Silver Maple Island	Milwaukee County T8N R21E Section 12 Village of Brown Deer	Bureau of Land Management	1	0
Trestle Ravine Woods	Milwaukee County T6N R22E Section 14 City of St. Francis	WE Energies	0	3
Truck Stop Woods	Milwaukee County T5N R22E Section 30 City of Oak Creek	Private	0	11
Westway Woods	Milwaukee County T6N R21E Section 34 Village of Greendale	Village of Greendale	0	9

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Bike Path Island	Ozaukee County T10N R21E Section 13 Village of Grafton	Bureau of Land Management	1	0
Garvey Woods	Ozaukee County T9N R21E Section 27 City of Mequon	Private	0	10
West Granville Mesic Woods	Milwaukee County T8N R21E Section 7 City of Milwaukee	Private	0	8
Gengler's Woods	Ozaukee County T9N R21E Section 33 City of Mequon	Ozaukee Washington Land Trust	0	4
Heinen Woods	Ozaukee County T12N R21E Section 26 Town of Fredonia	Private	32	0
Highland Woods	Ozaukee County T9N R21E Section 15 City of Mequon	City of Mequon	48	0
Meekwon Park Woods	Ozaukee County T9N R21E Section 10 City of Mequon	Ozaukee County and private	40	0
Port Washington Beach and Dunes	Ozaukee County T11N R22E Sections 1, 11 Town of Port Washington	Private	29	0
Port Washington Clay Banks	Ozaukee County T10N R22E Sections 3, 10 Town of Grafton	Private	29	6
Union Pacific Right-of-Way	Ozaukee County T9N R22E Section 5 City of Mequon	Private	0	1
Woodland Meadows Woods	Ozaukee County T10N R21E Section 17 Town of Cedarburg	Private	40	0
Caledonia Low Woods—South	Racine County T4N R23E Section 30 Village of Caledonia	Private	30	0
Lakeside Woods	Racine County T4N R23E Section 6 Village of Caledonia	WE Energies	2	0
Mt. Tom Woods	Racine County T2N R19E Section 1 Town of Burlington Kenosha County T2N R20E Sections 6, 7 Town of Brighton	Town of Burlington and private	0	24

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Root River Ravine Woods	Racine County T4N R23E Section 30 Village of Caledonia	WE Energies	5	0
STH 38/CTH K	Racine County T4N R22E Section 35 Village of Caledonia	Private	4	0
WEPCO Oak Woods	Racine County T4N R22E Section 1 Village of Caledonia	WE Energies	0	14
WEPCO Woods	Racine County T4N R22E Section 1 Village of Caledonia	WE Energies	0	18
Willow Woods	Racine County T3N R22E Section 36 Village of Mt. Pleasant	Private	0	4
Wood Duck Woods	Racine County T4N R23E Section 6 Village of Caledonia	WE Energies	0	3
Anderson Bog	Walworth County T4N R18E Section 10 Town of East Troy	Private	1	0
Bennett Dry Prairie	Walworth County T4N R16E Section 6 Town of LaGrange	Private	0	3
Darien Railroad Prairie Remnant	Walworth County T2N R15E Sections 28, 33 Town of Darien	Private	0	1
Duffin Road Dry Prairie	Walworth County T4N R16E Section 9 Town of LaGrange	Wisconsin Department of Natural Resources	1	0
Eastwood Estates Woods	Walworth County T4N R18E Section 11 Town of East Troy	Private	0	5
Emerson Esker Prairie	Walworth County T4N R16E Section 4 Town of LaGrange	Wisconsin Department of Natural Resources	0	1
Horn Dry Prairie	Walworth County T4N R17E Section 1 Town of Troy	Private	5	0
Juniper Knoll Camp Woods	Walworth County T4N R16E Section 24 Town of LaGrange	Private	98	0
Lyons Woods	Walworth County T1N R17E Section 18 Village of Fontana	Private	35	0

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Middle Lake Sedge Mat	Walworth County T4N R16E Section 34 Town of LaGrange	State of Wisconsin Trust Lands	3	0
Roden Oak Woods	Walworth County T2N R18E Section 13 Town of Lyons	Private	41	0
Seno Oak Opening	Walworth County T2N R18E Section 25 Town of Lyons	Private	2	0
Town of Linn Park	Walworth County T1N R17E Section 16 Town of Linn	Town of Linn	25	128
Turtle Valley Wildlife Area	Walworth County T3N R15E Sections 23, 24, 26 Town of Richmond T3N R16E Sections 18, 19 Town of Sugar Creek	Wisconsin Department of Natural Resources Wisconsin Department of Transportation	2,030	12
Whitewater Lake Island Woods	Walworth County T4N R15E Section 35 Town of Whitewater	Wisconsin Department of Natural Resources	3	0
Cedar Creek Fen	Washington County T10N R19E Section 14 Town of Polk	Wisconsin Department of Natural Resources	4	0
Chinkapin Oak Woods	Washington County T10N R20E Section 29 Town of Jackson	Private	0	11
Friedens Creek Woods	Washington County T10N R20E Section 7 Town of Jackson	Private	0	12
Gilbert Lake Woodland	Washington County T11N R19E Section 17 Town of West Bend	Private	85	0
Lamm Woods	Washington County T10N R20E Section 19 Town of Jackson	Private	0	20
Nabob Upland Woods	Washington County T11N R18E Section 24 Town of Addison	Private	0	75
STH 28 Woodland	Washington County T12N R20E Section 17 Town of Farmington	Private	12	0
Wheaton Woods	Washington County T9N R20E Section 30 Village of Germantown	Private	13	0

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Willow Creek Swamp	Washington County T9N R20E Section 31 Village of Germantown	Private	62	0
Borrow Pit Prairie	Waukesha County T6N R18E Section 11 Town of Genesee	Wisconsin Department of Natural Resources	0	3
Brookfield Oak Woods	Waukesha County T7N R20E Section 20 City of Brookfield	Private	0	4
Campground Woods	Waukesha County T8N R20E Sections 7, 18 Village of Menomonee Falls	Waukesha County	116	0
CTH M Shrubland	Waukesha County T7N R19E Section 24 City of Pewaukee	Private	32	9
Dragon Fen	Waukesha County T6N R18E Section 3 Town of Genesee	Private	1	0
Dunlop Dry-Mesic Prairie	Waukesha County T5N R18E Section 3 Town of Mukwonago	Waukesha County	9	0
Greenwald Woods	Waukesha County T5N R18E Section 23 Town of Mukwonago	Wisconsin Department of Natural Resources and private	58	0
Grush Road Dry Prairie	Waukesha County T6N R18E Section 29 Town of Genesee	Private	0	4
Janesville Road Woods	Waukesha County T5N R20E Section 10 City of Muskego	Private	0	2
Jungbluth Road Railroad Prairie	Waukesha County T7N R18E Section 1 Town of Delafield	Waukesha County and private	0	2
Kettle Moraine Recovering Prairie	Waukesha County T5N R17E Section 9 Town of Eagle	Wisconsin Department of Natural Resources	17	0
Kinsey Park Woods	Waukesha County T7N R20E Section 36 City of Brookfield	City of Brookfield	0	7
Lunt-Fontanne Park Prairie	Waukesha County T6N R18E Section 21 Town of Genesee	Town of Genesee and private	20	0

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Menomonee River Parkway Woods	Waukesha County T8N R20E Section 3 Village of Menomonee Falls	Waukesha County	7	0
Mill Brook Fen	Waukesha County T5N R19E Section 10 Town of Vernon	Private	13	0
Nashotah Park Woods	Waukesha County T8N R18E Section 31 Town of Merton	Waukesha County	106	0
Nature Road Woodland and Dry Prairie	Waukesha County T5N R17E Section 34 Town of Eagle	Private	44	0
North Lake Low Woods	Waukesha County T8N R18E Section 16 Town of Merton	Private	35	3
North Prairie Dry Prairie	Waukesha County T6N R18E Section 31 Town of Genesee	Private	0	1
Old Muskego Settlement Woods	Waukesha County T5N R20E Section 16 City of Muskego	City of Muskego	0	18
Ottawa Lake Dry Woods	Waukesha County T6N R17E Section 34 Town of Ottawa	Wisconsin Department of Natural Resources	13	0
PEL 1134 Oak Opening	Waukesha County T6N R17E Section 23 Town of Ottawa	Wisconsin Department of Natural Resources	141	0
Roberts Oak Opening	Waukesha County T6N R18E Section 9 Town of Genesee	Private	0	4
Schanke Property	Waukesha County T6N R18E Section 17 Town of Genesee	Private	0	32
Schkeryantz Woods	Waukesha County T6N R20E Section 24 City of New Berlin	Private	0	6
Spring Valley Woods	Waukesha County T6N R20E Section 32 City of New Berlin	Muskego Lakes Land Conservancy	0	14
Stephenson Shrubby Fen	Waukesha County T6N R17E Section 11 Town of Ottawa	Private	27	0

Table 12 (continued)

Site Name	Location	Ownership	Relationship to Primary Environmental Corridor (PEC)	
			Within PEC (acres)	Outside PEC (acres)
Stigler Woods	Waukesha County T6N R20E Section 9 City of New Berlin	City of New Berlin and private	53	0
Stonegate Dry Prairie	Waukesha County T5N R18E Section 15 Town of Mukwonago	Private	0	3
Swan Farms Woods	Waukesha County T7N R19E Sections 2, 11 City of Pewaukee	Private	71	0
Swartz Woods	Waukesha County T6N R20E Section 19 City of New Berlin	Private	0	36
Taylor Road Woods	Waukesha County T7N R18E Section 12 Town of Delafield	Private	30	0
Thorndell Avenue Woods	Waukesha County T8N R20E Section 14 Village of Menomonee Falls	Private	14	2
Underwood Creek Woods	Waukesha County T7N R20E Section 24 Village of Elm Grove	Private	0	25
Regional Total	133 Sites	--	3,809	727

Source: SEWRPC

Section 5

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

The 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. The Wisconsin Natural Heritage Working 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. This compilation of species is intended to be dynamic, to change to more accurately reflect the state of the most up-to-date ecological information. 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. Accordingly, the regional list should be updated to reflect these changes. 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 13 lists the revisions that have been made in the status of the Region’s critical vertebrate animal species.

Of the 360 vascular plant species that are listed on the “Wisconsin Rare Vascular Plant Working List”, a total of 153 species, or 42 percent, were found to be growing as natives, at least historically, in the southeastern Wisconsin Region. Much of the historical information concerning presence of plant species in the Region was found on the web sites of the herbaria of the University of Wisconsin-Madison (www.botany.wisc.edu/herbarium) and the University of Wisconsin-Stevens Point (www.wisplants.uwsp.edu). Based, then, on the most recent information, Tables 14, 15, and 16 list those critical plant species determined to be, at least historically, part of the regional flora. Specifically, it includes 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.

However, recent and reliable records only include 112 (73 percent) of these 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. To date, this total of plant species no longer expected to be found in the Region includes seven endangered species, 11 threatened species, and 23 special concern species. Of the 112 listed plant species for which there are current records, 16 species, or 14 percent, are classified as endangered; 22 species, or 20 percent, are classified as threatened; and 74 species, or 66 percent, are classified as special concern.



Blanding's turtle (*Emydoidea blandingii*), a State of Wisconsin-designated threatened species shown above, was identified in all seven southeastern Wisconsin counties during the original study. Its distribution remains unchanged in this Region. The threatened status of this turtle is explained by its poor reproduction caused by nest predation from mammals such as skunks, opossums, and raccoons. The prevalence of such predators – which readily adapt to the urban environment – has been increased greatly by scattered urban and suburban sprawl.

Source: Robert Hay.



The above photograph shows a Butler's gartersnake (*Thamnophis butleri*), a State of Wisconsin designated threatened species. It is the smallest of Wisconsin's five gartersnake species. The statewide habitat range for Butler's gartersnake is largely restricted to the southeastern Wisconsin region, particularly Milwaukee, Ozaukee, Washington, and Waukesha Counties. Suitable habitats include upland open brush and grassland communities associated with wet meadows, open wetlands less than two acres in area, and shrub-carr wetland communities. Loss of such suitable habitats within the Region has materially contributed to the decline of this species.

Source: Wisconsin Department of Natural Resources.



Cream or Yellow gentian (*Gentiana alba*), a State of Wisconsin-designated threatened plant species shown above, was identified in a City of Franklin prairie. Cream gentian is a rare plant of calcareous soils found in mesic prairies, oak openings, and on morainal hills. Its decline in southeastern Wisconsin is due largely to the invasion of prairies by shrubs and the lack of burning.

Source: SEWRPC.

In addition, 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 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. Table 17 lists 401 species native to the Region classified as uncommon by the Commission that are 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, and, therefore, all populations are noteworthy. It should be noted that although 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 their status should be monitored and their locations tracked.

Table 13

**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.



Eared false foxglove (*Tomanthera auriculata*) is a State of Wisconsin designated special concern plant once thought to be extirpated from Wisconsin. The two remaining known habitats for this plant are located in southeastern Wisconsin. Eared false foxglove is an annual plant of wet mesic prairies and savannas. It is also a known hemiparasite – obtains part of its nutrition from the plant roots of other plants – particularly on the Asters. Burn management of its habitat combined with shrub control greatly improves seed germination. The above photograph was taken in the Scuppernong River Habitat Area near Eagle, Wisconsin.

Source: Larry Leitner.

Two plant species listed in SEWRPC Planning Report No. 42 as reasonably considered to have been extirpated from the Region—wild petunia (*Ruellia humilis*) and eared false foxglove (*Tomanthera auriculata*)—were re-discovered growing in out-of-the-way locations by Commission and Wisconsin Department of Natural Resources biologists, emphasizing that collection of biological information must be an on-going process. In fact, the eared false foxglove had not been seen in the entire State since 1900.

The gray wolf (*Canis lupus*) was likewise considered to have been extirpated from Southeastern Wisconsin. Today, however, because of Statewide efforts to re-introduce the species into northern Wisconsin, the gray wolf may occasionally be found as a transient in the southeastern Wisconsin Region, particularly in the southern Kettle Moraine. Its status has recently been downgraded from endangered to special concern.

Table 14

**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>Erigenia 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

SPECIES FORMERLY LISTED IN SEWRPC PLANNING REPORT NUMBER 42 AS ENDANGERED

Species Name	Common Name	Reason For De-listing
<i>Salix cordata</i>	Sand dune willow	Taxonomic revisions reveal this species does not occur in Region
<i>Scirpus cespitosus</i>	Tussock bulrush	Reduced to Threatened status by Wisconsin Department of Natural Resources

Source: Wisconsin Department of Natural Resources and SEWRPC.

Table 15

**THREATENED 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 gattereri</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

Source: Wisconsin Department of Natural Resources and SEWRPC.

Table 16

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
<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 dracuncululus</i>	Dragon sage-wort	Yes	Possibly extirpated from Region
<i>Artemisia frigida</i>	Fringed sage-wort	No	Possibly extirpated from Region
<i>Athyrium pycnocarpon</i>	Glade fern	No	= <i>Diplazium pycnocarpon</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 Planning Report No. 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>	Variiegated 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 Planning Report No. 42; added Special Concern by Wisconsin Department of Natural Resources

Table 16 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<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>	Twinleaf	Yes	--
<i>Juglans cinerea</i>	Butternut	No	Added Special Concern by Wisconsin Department of Natural Resources
<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	Possibly 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 Planning Report No. 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

Table 16 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<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	--

SPECIES FORMERLY LISTED IN SEWRPC PLANNING REPORT NO. 42 AS SPECIAL CONCERN

Species Name	Common Name	Reason For De-listing
<i>Onosmodium hispidissimum</i>	Marbleseed	Combined with other, non-critical species
<i>Peltandra virginica</i>	Arrow-arum	Now considered non-native
<i>Viola septentrionalis</i>	Northern blue violet	Taxon combined with other species

Source: Wisconsin Department of Natural Resources and SEWRPC.



Kittenails (*Besseyia bullii*) is a State of Wisconsin-designated threatened plant species. Its distribution in southeastern Wisconsin is essentially restricted to the sandy and gravelly soils of oak openings and dry to dry mesic prairie habitats of the Kettle Moraine. The above photograph was taken in the Mukwonago River Watershed, Waukesha County.

Source: Tom Slawski.



Reflexed or Prairie trillium (*Trillium recurvatum*) is a State of Wisconsin-designated special concern plant of mesic forests. Its decline in southeastern Wisconsin is due mainly to habitat destruction and forest fragmentation. But over browsing by uncontrolled deer populations and encroachment by invasive plant species also contribute to its decline. The above photograph was taken in the City of Franklin, Milwaukee County.

Source: SEWRPC.

Table 17

UNCOMMON PLANT SPECIES OF THE SOUTHEASTERN WISCONSIN REGION: 2007

Species Name	Common Name	Listed in PR-42	Notes
<i>Acer spicatum</i>	Mountain maple	Yes	In Region, restricted north of tension zone
<i>Acorus americanus</i>	Sweet flag	Yes	= <i>A. calamus</i>
<i>Agalinis aspera</i>	Rough foxglove	Yes	--
<i>Agastache scrophulariaefolia</i>	Purple giant hyssop	Yes	--
<i>Agrostis perennans</i>	Upland bent grass	No	--
<i>Aletris farinosa</i>	Colic-root	Yes	Restricted to Carol Beach area
<i>Amelanchier arborea</i>	Common serviceberry	No	--
<i>Amelanchier interior</i>	Pacific serviceberry	No	--
<i>Amelanchier sanguinea</i>	New England serviceberry	No	--
<i>Amelanchier spicata</i>	Dwarf serviceberry	No	--
<i>Ammannia robusta</i>	Grand red-stem	No	Added to regional flora
<i>Ammophila breviligulata</i>	Marram grass	Yes	--
<i>Amorpha canescens</i>	Leadplant	Yes	Dry prairies
<i>Amorpha fruticosa</i>	Indigo	No	--
<i>Anaphalis margaritacea</i>	Pearly everlasting	Yes	--
<i>Andromeda glaucophylla</i>	Bog rosemary	Yes	Bogs
<i>Androsace occidentalis</i>	Western androsace	No	Added to regional flora
<i>Anemone patens</i>	Pasqueflower	Yes	Dry prairies
<i>Anemone thalictroides</i>	Rue-anemone	Yes	Rich woods
<i>Aralia hispida</i>	Bristly sarsaparilla	No	Added to regional flora
<i>Aralia racemosa</i>	Spikenard	Yes	Rich woods
<i>Arctostaphylos uva-ursi</i>	Bearberry	Yes	Only historical location in Carol Beach
<i>Arenaria lateriflora</i>	Wood sandwort	No	--
<i>Arenaria stricta</i>	Rock sandwort	Yes	--
<i>Arisaema dracontium</i>	Green dragon	Yes	Low woods
<i>Aristida basiramea</i>	Triple-awn grass	Yes	--
<i>Aristida intermedia</i>	False arrowfeather	Yes	--
<i>Aristida purpurascens</i>	Arrow-feather	No	--
<i>Artemisia serrata</i>	Saw-toothed sagebrush	Yes	--
<i>Asclepias amplexicaulis</i>	Bluntleaf milkweed	Yes	--
<i>Asclepias hirtella</i>	Tall green milkweed	Yes	--
<i>Asclepias tuberosa</i>	Butterflyweed	Yes	Dry, sandy prairie remnants
<i>Asclepias viridiflora</i>	Short green milkweed	Yes	--
<i>Asplenium platyneuron</i>	Ebony spleenwort	Yes	--
<i>Aster ciliolatus</i>	Lindley's aster	No	--
<i>Aster cordifolius</i>	Heart-leaved aster	Yes	--
<i>Aster falcatius</i>	White prairie aster	No	--
<i>Aster hesperius</i>	Western lined aster	No	--
<i>Aster linariifolius</i>	Flax-leaved aster	Yes	Dry, sandy prairie remnants
<i>Aster ontarionis</i>	Bottomland aster	No	--
<i>Aster praealtus</i>	Willow aster	Yes	--
<i>Aster prenanthoides</i>	Crooked-stem aster	Yes	--
<i>Aster ptarmicoides</i>	Prairie goldenrod	No	= <i>Solidago ptarmicoides</i>
<i>Astragalus canadensis</i>	Canada milk-vetch	Yes	--
<i>Aureolaria grandiflora</i>	Yellow false foxglove	Yes	Oak openings
<i>Aureolaria pedicularia</i>	Annual foxglove	Yes	--
<i>Baptisia leucantha</i>	White wild indigo	Yes	Dry prairie remnants
<i>Baptisia leucophaea</i>	Cream wild indigo	Yes	Dry prairie remnants
<i>Beckmannia syzigachne</i>	American slough grass	Yes	--
<i>Berula erecta</i>	Small water parsnip	Yes	--
<i>Blephilia ciliata</i>	Ohio horse mint	No	--
<i>Blephilia hirsuta</i>	Wood mint	No	--
<i>Boltonia latisquama</i>	False aster	Yes	Very few stations
<i>Botrychium dissectum</i>	Cut-leaved grape fern	No	--

Table 17 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<i>Botrychium multifidum</i>	Leathery grape fern	Yes	--
<i>Brasenia schreberi</i>	Water shield	Yes	--
<i>Bromus altissimus</i>	Ear-leaved brome	No	--
<i>Bulbostylis capillaris</i>	Hair-sedge	Yes	--
<i>Cacalia atriplicifolia</i>	Pale Indian plantain	Yes	Prairie remnants and woodlands
<i>Calla palustris</i>	Water arum	Yes	--
<i>Callitriche palustris</i>	Common water-starwort	Yes	--
<i>Calopogon oklahomensis</i>	Oklahoma grass pink	No	Added to regional flora
<i>Calopogon pulchellus</i>	Grass-pink orchid	Yes	--
<i>Camptosorus rhizophyllus</i>	Walking fern	Yes	Limestone outcrops
<i>Carex alopecoidea</i>	Foxtail sedge	Yes	--
<i>Carex annectens</i>	Yellow fox sedge	No	--
<i>Carex atherodes</i>	Hairy-leaved lake sedge	Yes	--
<i>Carex brevior</i>	Plains oval sedge	No	--
<i>Carex canescens</i>	Gray bog sedge	No	--
<i>Carex cephaloidea</i>	Clustered sedge	No	--
<i>Carex chordorrhiza</i>	Cordroot sedge	No	--
<i>Carex communis</i>	Colonial oak sedge	Yes	--
<i>Carex conoidea</i>	Open-field sedge	Yes	--
<i>Carex crawfordii</i>	Crawford's oval sedge	No	--
<i>Carex cryptolepis</i>	Northeastern sedge	Yes	--
<i>Carex diandra</i>	Bog panicled sedge	No	--
<i>Carex digitalis</i>	Narrow-leaved wood sedge	No	--
<i>Carex disperma</i>	Soft-leaf sedge	Yes	--
<i>Carex eburnea</i>	Bristle-leaf sedge	Yes	--
<i>Carex echinata</i>	Star sedge	Yes	--
<i>Carex gravida</i>	Long-awned bracted sedge	No	--
<i>Carex grayi</i>	Bur sedge	Yes	--
<i>Carex haydenii</i>	Hayden's sedge	Yes	--
<i>Carex hitchcockiana</i>	Hairy gray sedge	No	--
<i>Carex jamesii</i>	Grass sedge	No	--
<i>Carex laxiculmis</i>	Spreading sedge	No	--
<i>Carex laxiflora</i>	Beech wood sedge	No	--
<i>Carex leptonevia</i>	Few-nerved wood sedge	No	--
<i>Carex limosa</i>	Mud sedge	Yes	--
<i>Carex magellanica</i>	Boreal bog sedge	No	--
<i>Carex meadii</i>	Mead's sedge	Yes	--
<i>Carex molesta</i>	Field oval sedge	No	--
<i>Carex muhlenbergii</i>	Sand bracted sedge	No	--
<i>Carex muskingumensis</i>	Swamp oval sedge	No	--
<i>Carex oligocarpa</i>	Few-fruited gray sedge	No	--
<i>Carex peckii</i>	Peck's sedge	No	--
<i>Carex plantaginea</i>	Plantain-leaved wood sedge	No	--
<i>Carex siccata</i>	Running savanna sedge	No	--
<i>Carex tribuloides</i>	Awl-fruited oval sedge	No	--
<i>Carex tuckermanii</i>	Tuckerman's sedge	Yes	--
<i>Carex typhina</i>	Cattail sedge	No	--
<i>Carex umbellata</i>	Early oak sedge	No	--
<i>Carex woodii</i>	Wood's stiff sedge	No	--
<i>Cassia fasciculata</i>	Partridge-pea	Yes	--
<i>Castilleja coccinea</i>	Indian paintbrush	Yes	Prairie remnants
<i>Castilleja sessiflora</i>	Downy paintbrush	Yes	Prairie remnants
<i>Cephalanthus occidentalis</i>	Buttonbush	No	Few stations
<i>Ceratophyllum echinatum</i>	Spiny hornwort	Yes	--
<i>Chenopodium leptophyllum</i>	Narrow-leaved goosefoot	No	--
<i>Chenopodium standleyanum</i>	Woodland goosefoot	No	--

Table 17 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<i>Chimaphila umbellata</i>	Prince's-pine	Yes	--
<i>Circaea alpina</i>	Northern enchanter's-nightshade	Yes	In Region, restricted north of tension zone
<i>Cladium mariscoides</i>	Twig-rush	Yes	--
<i>Clintonia borealis</i>	Yellow bead-lily	Yes	In Region, restricted north of tension zone
<i>Conopholis americana</i>	Squawroot	Yes	--
<i>Convolvulus spithameus</i>	Low bindweed	Yes	--
<i>Coptis trifolia</i>	Goldthread	Yes	In Region, restricted north of tension zone
<i>Corallorhiza maculata</i>	Spotted coral-root	Yes	--
<i>Corallorhiza trifida</i>	Early coral-root	Yes	--
<i>Corispermum hyssopifolium</i>	Bugseed	Yes	Lake Michigan beaches
<i>Cornus canadensis</i>	Bunchberry	Yes	In Region, restricted north of tension zone
<i>Cornus rugosa</i>	Roundleaf dogwood	Yes	--
<i>Corydalis micrantha</i>	Slender corydalis	No	--
<i>Corydalis sempervirens</i>	Pale corydalis	No	--
<i>Corylus cornuta</i>	Beaked hazelnut	Yes	Lake Michigan bluffs; possibly extirpated
<i>Cryptogramma stelleri</i>	Slender rock brake	Yes	--
<i>Cuscuta coryli</i>	Hazel dodder	No	--
<i>Cuscuta polygonorum</i>	Knotweed dodder	No	--
<i>Cynoglossum boreale</i>	Wild comfrey	Yes	--
<i>Cyperus diandrus</i>	Umbrella flat sedge	Yes	--
<i>Cyperus squarrosus</i>	Awnead flat sedge	No	--
<i>Cypripedium acaule</i>	Mocassin flower	Yes	Few stations
<i>Dentaria diphylla</i>	Crinkleroot	Yes	Only in Milwaukee County
<i>Deparia acrostichoides</i>	Silvery spleenwort	No	--
<i>Desmanthus illinoensis</i>	Illinois sensitive-plant	Yes	--
<i>Desmodium cuspidatum</i>	Bracted tick-trefoil	Yes	--
<i>Desmodium glabellum</i>	Smooth tick-trefoil	No	--
<i>Desmodium nudiflorum</i>	Bare-stemmed tick-trefoil	Yes	--
<i>Desmodium paniculatum</i>	Panicled tick-trefoil	Yes	--
<i>Dicentra canadensis</i>	Squirrel-corn	Yes	Few stations
<i>Dicentra cucullaria</i>	Dutchman's-breeches	Yes	--
<i>Dirca canadensis</i>	Leatherwood	Yes	Rich mesic woods
<i>Drosera intermedia</i>	Spatulate-leaved sundew	Yes	Bogs
<i>Drosera rotundifolia</i>	Round-leaved sundew	Yes	Bogs
<i>Dryopteris goldiana</i>	Goldie's fern	Yes	--
<i>Echinochloa walteri</i>	Salt-marsh cockspur grass	Yes	--
<i>Ellisia nyctelea</i>	Aunt Lucy	No	--
<i>Elymus riparius</i>	Riverbank wild rye	No	--
<i>Equisetum pratense</i>	Meadow horsetail	Yes	--
<i>Equisetum scirpoides</i>	Dwarf scouring-rush	Yes	--
<i>Equisetum sylvaticum</i>	Wood horsetail	Yes	--
<i>Erigeron pulchellus</i>	Robin's plantain	Yes	Open oak woods
<i>Eriophorum gracile</i>	Slender cotton-grass	Yes	--
<i>Eriophorum spissum</i>	Dense cotton-grass	Yes	--
<i>Eriophorum viridi-carinatum</i>	Dark-scale cotton-grass	Yes	--
<i>Eryngium yuccifolium</i>	Rattlesnake-master	Yes	Mesic prairie remnants
<i>Festuca saximontana</i>	Rocky Mt. fescue	No	--
<i>Fimbristylis autumnalis</i>	Autumn sedge	No	--
<i>Floerkea proserpinacoides</i>	False-mermaid	Yes	Rich woods
<i>Galium brevipes</i>	Limestone swamp bedstraw	Yes	--
<i>Galium lanceolatum</i>	Lance-leaved wild licorice	Yes	In Region, restricted north of tension zone
<i>Gaultheria hispida</i>	Creeping snowberry	Yes	In Region, restricted north of tension zone
<i>Gaultheria procumbens</i>	Wintergreen	Yes	--
<i>Gaura biennis</i>	Biennial gaura	Yes	--
<i>Gaylussacia baccata</i>	Huckleberry	No	Sandy woods and bogs
<i>Gentiana puberulenta</i>	Downy gentian	Yes	Mesic prairie remnants

Table 17 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<i>Gentianopsis crinita</i>	Fringed gentian	Yes	Fens and low prairies
<i>Geranium bicknellii</i>	Northern cranesbill	Yes	--
<i>Geranium robertianum</i>	Herb-Robert	No	One station in Region
<i>Geum rivale</i>	Purple avens	Yes	Rich low woods
<i>Geum triflorum</i>	Prairie smoke	No	Prairies
<i>Gleditsia triacanthos</i>	Honey locust	Yes	Few locations of non-ornamental trees
<i>Glyceria borealis</i>	Northern manna grass	Yes	--
<i>Glyceria canadensis</i>	Rattlesnake grass	Yes	--
<i>Gnaphalium macounii</i>	Clammy cudweed	No	--
<i>Goodyera pubescens</i>	Rattlesnake-plantain	Yes	Oak woodlands
<i>Gymnocarpium dryopteris</i>	Oak fern	No	--
<i>Habenaria viridis var. bracteata</i>	Bracted orchid	Yes	--
<i>Helianthemum bicknellii</i>	Rockrose	Yes	--
<i>Helianthus divaricatus</i>	Woodland sunflower	No	--
<i>Helianthus laetiflorus</i>	Prairie sunflower	No	--
<i>Heuchera richardsonii</i>	Alumroot	Yes	--
<i>Hieracium longipilum</i>	Long-haired hawkweed	No	Dry prairie remnants
<i>Hieracium scabrum</i>	Rough hawkweed	No	--
<i>Hieracium umbellatum</i>	Northern hawkweed	No	--
<i>Hippuris vulgaris</i>	Mare's-tail	Yes	Springs
<i>Houstonia longifolia</i>	Long-leaved bluets	Yes	--
<i>Hypericum boreale</i>	Northern St. John's-wort	Yes	--
<i>Hypericum kalmianum</i>	Kalm's St. John'-wort	Yes	--
<i>Hypericum majus</i>	Larger Canadian St. John's-wort	Yes	--
<i>Hypericum pyramidatum</i>	Great St. John's-wort	Yes	--
<i>Impatiens pallida</i>	Pale jewelweed	No	--
<i>Juncus acuminatus</i>	Sharp-fruited rush	Yes	--
<i>Juncus alpinoarticulatus</i>	Northern green rush	Yes	--
<i>Juncus bufonius</i>	Toad rush	Yes	--
<i>Juncus greenei</i>	Greene's rush	Yes	--
<i>Juncus interior</i>	Inland rush	Yes	--
<i>Juniperus horizontalis</i>	Trailing juniper	Yes	Very few historical stations in Region
<i>Kalmia polifolia</i>	Bog laurel	Yes	In Region, restricted north of tension zone
<i>Koeleria cristata</i>	Junegrass	Yes	--
<i>Lactuca floridana</i>	Blue lettuce	Yes	--
<i>Lactuca ludoviciana</i>	Western wild lettuce	Yes	--
<i>Lathyrus japonicus</i>	Beach pea	Yes	Lake Michigan beaches
<i>Lathyrus ochroleucos</i>	Pale vetchling	Yes	Rich dry-mesic woods
<i>Lechea intermedia</i>	Pinweed	Yes	Sandy prairies
<i>Lechea stricta</i>	Bushy pinweed	Yes	Sandy prairies
<i>Ledum groenlandicum</i>	Labrador-tea	Yes	In Region, restricted north of tension zone
<i>Liatris cylindracea</i>	Cylindric blazing-star	Yes	--
<i>Liatris ligulistylis</i>	Showy blazing-star	Yes	--
<i>Lilium philadelphicum</i>	Wood lily	Yes	Rich wet-mesic prairies
<i>Linaria canadensis</i>	Blue toadflax	Yes	Sandy prairies
<i>Lindernia dubia</i>	False pimpernel	Yes	--
<i>Linnaea borealis</i>	Twinflower	Yes	In Region, restricted north of tension zone
<i>Linum medium</i>	Small yellow flax	No	--
<i>Linum sulcatum</i>	Grooved yellow flax	No	--
<i>Liparis liliifolia</i>	Purple twayblade	Yes	--
<i>Liparis loeselii</i>	Green twayblade	Yes	--
<i>Lipocarpha micrantha</i>	Small-flowered hemicarpha	Yes	--
<i>Listera cordata</i>	Heartleaf twayblade	Yes	In Region, restricted north of tension zone
<i>Lithospermum canescens</i>	Hoary puccoon	No	Prairie remnants
<i>Lithospermum carolinense</i>	Hairy puccoon	No	--
<i>Lobelia cardinalis</i>	Cardinal flower	No	Low woods

Table 17 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<i>Lonicera canadensis</i>	American fly honeysuckle	Yes	--
<i>Lonicera oblongifolia</i>	Swamp fly honeysuckle	Yes	--
<i>Lonicera villosa</i>	Mountain fly honeysuckle	Yes	--
<i>Lupinus perennis</i>	Wild lupine	Yes	Dry, sandy prairies and oak openings
<i>Lycopodium clavatum</i>	Running ground-pine	Yes	--
<i>Lycopodium dendroideum</i>	Round-branched club-moss	Yes	--
<i>Lycopodium digitatum</i>	Trailing ground-pine	Yes	--
<i>Lycopodium inundatum</i>	Bog club-moss	No	--
<i>Lycopodium lucidulum</i>	Shining club-moss	No	--
<i>Lycopodium tristachyum</i>	Ground-cedar	No	--
<i>Lycopus virginicus</i>	Virginia water-horehound	Yes	--
<i>Lysimachia hybrida</i>	River loosestrife	No	--
<i>Lysimachia lanceolata</i>	Lance-leaved loosestrife	No	--
<i>Lysimachia quadrifolia</i>	Whorled loosestrife	Yes	--
<i>Lysimachia terrestris</i>	Swamp candles	No	--
<i>Malaxis unifolia</i>	Green adder's-mouth	Yes	--
<i>Megalodonta beckii</i>	Water-marigold	Yes	--
<i>Melampyrum lineare</i>	Cow-wheat	Yes	--
<i>Menyanthes trifoliata</i>	Bog buckbean	Yes	Bogs
<i>Milium effusum</i>	Wood millet	Yes	Upland woods
<i>Mimulus glabratus</i>	Yellow monkey-flower	Yes	Springs
<i>Mitchella repens</i>	Partridgeberry	Yes	--
<i>Mitella nuda</i>	Naked mitrewort	Yes	In Region, restricted north of tension zone
<i>Monarda punctata</i>	Horse mint	No	Dry sandy prairies
<i>Moneses uniflora</i>	One-flowered pyrola	Yes	--
<i>Monotropa hypopithys</i>	Pinesap	Yes	--
<i>Monotropa uniflora</i>	Indian pipe	Yes	--
<i>Muhlenbergia cuspidata</i>	Prairie satin grass	Yes	--
<i>Muhlenbergia sylvatica</i>	Woodland satin grass	No	--
<i>Muhlenbergia tenuiflora</i>	Slender satin grass	Yes	--
<i>Myriophyllum heterophyllum</i>	Various-leaved water-milfoil	No	--
<i>Najas guadalupensis</i>	Southern naiad	No	--
<i>Nelumbo lutea</i>	Lotus	Yes	A few lakes in Region
<i>Nemopanthus mucronatus</i>	Mountain holly	Yes	In Region, restricted north of tension zone
<i>Oenothera clelandii</i>	Sand evening-primrose	No	--
<i>Oenothera perennis</i>	Small sundrops	No	--
<i>Oenothera villosa</i>	Hairy evening-primrose	No	--
<i>Orchis spectabilis</i>	Showy orchis	Yes	Very few populations extant in Region
<i>Oryzopsis asperifolia</i>	Rough-leaved rice grass	Yes	Rich dry-mesic woods
<i>Oryzopsis racemosa</i>	Black-seeded rice grass	Yes	Rich dry-mesic woods
<i>Oxalis violacea</i>	Violet wood sorrel	Yes	Dry prairies and oak openings
<i>Panax trifolius</i>	Dwarf ginseng	Yes	Rich woods
<i>Panicum boreale</i>	Northern panic grass	No	--
<i>Panicum depauperatum</i>	Starved panic grass	Yes	--
<i>Panicum linearifolium</i>	Slender-leaved panic grass	Yes	--
<i>Panicum perlongum</i>	Long-stalked panic grass	Yes	--
<i>Paronychia canadensis</i>	Tall forked chickweed	Yes	--
<i>Pellaea glabella</i>	Smooth cliff brake	Yes	Limestone outcrops
<i>Penstemon calycosus</i>	Long-sepaled beardtongue	Yes	--
<i>Penstemon digitalis</i>	Foxglove	Yes	Nativity questionable
<i>Petalostemum candidum</i>	White prairie-clover	Yes	Prairie remnants
<i>Petalostemum purpureum</i>	Purple prairie clover	No	Prairie remnants
<i>Phegopteris connectilis</i>	Long beech fern	No	--
<i>Phyla lanceolata</i>	Fogfruit	Yes	--
<i>Picea mariana</i>	Black spruce	Yes	In Region, restricted north of tension zone
<i>Pilea fontana</i>	Bog clearweed	Yes	--

Table 17 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<i>Pinus strobus</i>	White pine	Yes	Few native stands
<i>Plantago purshii</i>	Woolly plantain	Yes	--
<i>Platanthera clavellata</i>	Small green wood orchid	Yes	--
<i>Platanthera hyperborea</i>	Northern bog orchid	Yes	Bogs
<i>Platanthera lacera</i>	Ragged-fringed orchid	Yes	--
<i>Platanthera obtusata</i>	Blunt-leaf orchid	Yes	--
<i>Platanthera psycodes</i>	Purple-fringed orchid	Yes	Rich low woods
<i>Poa alsodes</i>	Grove bluegrass	No	--
<i>Poa languida</i>	Weak bluegrass	Yes	--
<i>Poa sylvestris</i>	Forest bluegrass	No	--
<i>Pogonia ophioglossoides</i>	Rose pogonia	Yes	Bogs
<i>Polygala paucifolia</i>	Gaywings	Yes	In Region, restricted north of tension zone
<i>Polygala polygama</i>	Purple milkwort	No	--
<i>Polygala sanguinea</i>	Field milkwort	No	--
<i>Polygala verticillata</i>	Whorled milkwort	No	--
<i>Polygonella articulata</i>	Jointweed	Yes	--
<i>Polygonum arifolium</i>	Halberd-leaved tear-thumb	No	--
<i>Polygonum tenue</i>	Slender knotweed	No	--
<i>Polymnia canadensis</i>	Leafcup	Yes	Rich woods
<i>Polypodium virginianum</i>	Polypody	Yes	--
<i>Pontederia cordata</i>	Pickerel weed	Yes	--
<i>Populus balsamifera</i>	Balsam poplar	Yes	A 'northern' species
<i>Potamogeton epihydrus</i>	Ribbon-leaved pondweed	Yes	--
<i>Potamogeton filiformis</i>	Fine-leaved pondweed	No	--
<i>Potamogeton oakesianus</i>	Oakes's pondweed	No	--
<i>Potamogeton pusillus</i>	Small pondweed	Yes	--
<i>Potamogeton robbinsii</i>	Fern pondweed	Yes	--
<i>Potamogeton strictifolius</i>	Stiff pondweed	Yes	--
<i>Prenanthes racemosa</i>	Rattlesnake-root	Yes	Prairie remnants
<i>Proserpinaca palustris</i>	Mermaid weed	No	--
<i>Pyrola asarifolia</i>	Pink shinleaf	Yes	--
<i>Pyrola rotundifolia</i>	Round-leaved shinleaf	Yes	--
<i>Pyrola secunda</i>	One-sided shinleaf	Yes	--
<i>Ranunculus rhomboideus</i>	Prairie buttercup	Yes	Dry prairie remnants
<i>Rhamnus alnifolia</i>	Alder buckthorn	Yes	Mostly north of tension zone
<i>Rhynchospora alba</i>	White beak-rush	Yes	Fens
<i>Rhynchospora capillacea</i>	Hair beak-rush	Yes	Fens
<i>Ribes hirtellum</i>	Northern gooseberry	Yes	--
<i>Ribes lacustre</i>	Swamp black currant	No	--
<i>Ribes triste</i>	Swamp red currant	No	--
<i>Rosa arkansana</i>	Sunshine rose	No	--
<i>Rubus curtipes</i>	Short-stalk dewberry	No	--
<i>Rubus flagellaris</i>	Common dewberry	No	--
<i>Rubus hispidus</i>	Swamp dewberry	No	--
<i>Rubus plicatifolius</i>	Plait-leaf dewberry	No	--
<i>Rubus stipulatus</i>	Big Horseshoe Lake dewberry	No	--
<i>Rudbeckia fulgida</i>	Showy coneflower	No	--
<i>Rudbeckia subtomentosa</i>	Sweet black-eyed Susan	No	--
<i>Rumex maritimus</i>	Golden dock	No	--
<i>Ruppia maritima</i>	Ditch-grass	Yes	--
<i>Sagittaria cristata</i>	Crested arrowhead	No	--
<i>Salix candida</i>	Sage willow	Yes	Fens and calcareous wet prairies
<i>Salix humilis</i>	Prairie willow	Yes	--
<i>Salix serissima</i>	Autumn willow	Yes	--
<i>Sambucus pubens</i>	Red-berried elder	Yes	In Region, restricted north of tension zone
<i>Samolus parviflorus</i>	Water pimpernel	Yes	--

Table 17 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<i>Sanicula canadensis</i>	Canadian black snakeroot	No	--
<i>Sanicula trifoliata</i>	Beaked black snakeroot	No	--
<i>Sarracenia purpurea</i>	Pitcher plant	No	Bogs
<i>Satureja vulgaris</i>	Dogmint	Yes	--
<i>Scheuchzeria palustris</i>	Arrow-grass	Yes	Very few stations
<i>Schizachne purpurascens</i>	False melic	Yes	Good quality dry-mesic woods
<i>Scirpus clintonii</i>	Clinton's bulrush	Yes	--
<i>Scirpus purshianus</i>	Pursh's tufted bulrush	No	--
<i>Scirpus subterminalis</i>	Swaying bulrush	Yes	--
<i>Scutellaria leonardii</i>	Small skullcap	No	--
<i>Selaginella rupestris</i>	Dwarf spike-moss	No	--
<i>Shepherdia canadensis</i>	Buffaloberry	Yes	Bluffs along Lake Michigan
<i>Sicyos angulatus</i>	Bur cucumber	Yes	--
<i>Silene stellata</i>	Starry campion	Yes	Oak openings
<i>Silphium laciniatum</i>	Compass plant	Yes	Rich mesic prairies
<i>Sisyrinchium angustifolium</i>	Short blue-eyed-grass	Yes	--
<i>Sisyrinchium strictum</i>	Mountain blue-eyed-grass	No	--
<i>Smilacina trifolia</i>	Three-leaved Solomon's plume	Yes	In Region, restricted north of tension zone
<i>Solidago bicolor</i>	Silverrod	No	Very rare
<i>Solidago gymnospermoides</i>	Great Plains flat-topped goldenrod	No	--
<i>Solidago hispida</i>	Hairy goldenrod	Yes	--
<i>Solidago tenuifolia</i>	Slender goldenrod	No	--
<i>Sorbus americana</i>	American mountain-ash	Yes	A 'northern' species
<i>Sorbus decora</i>	Showy mountain-ash	Yes	A 'northern' species
<i>Sparganium androcladum</i>	Branched burreed	No	--
<i>Sparganium emersum</i>	Narrow-leaved burreed	Yes	--
<i>Spiraea tomentosa</i>	Hardhack	Yes	Very few stations
<i>Spiranthes casei</i>	Case's ladies'-tresses	No	--
<i>Spiranthes lacera</i>	Slender ladies'-tresses	Yes	--
<i>Spiranthes lucida</i>	Shining ladies'-tresses	Yes	--
<i>Spiranthes magnicamporum</i>	Prairie ladies'-tresses	Yes	--
<i>Spiranthes romanzoffiana</i>	Hooded ladies'-tresses	Yes	--
<i>Sporobolus heterolepis</i>	Prairie dropseed	No	Ungrazed prairie remnants
<i>Staphylea trifolia</i>	Bladdernut	Yes	--
<i>Stipa spartea</i>	Porcupine grass	No	Prairie remnants
<i>Streptopus roseus</i>	Rosy twisted stalk	Yes	Few stations
<i>Symphoricarpos albus</i>	Snowberry	Yes	--
<i>Tephrosia virginiana</i>	Goat's-rue	Yes	Prairie remnants
<i>Trichostema brachiatum</i>	False pennyroyal	Yes	--
<i>Ulmus thomasi</i>	Rock elm	No	Few stations in Region
<i>Utricularia cornuta</i>	Horned bladderwort	Yes	--
<i>Utricularia gibba</i>	Humped bladderwort	Yes	--
<i>Utricularia minor</i>	Small bladderwort	Yes	--
<i>Vaccinium angustifolium</i>	Early low blueberry	No	Bogs and sandy woods
<i>Vaccinium macrocarpon</i>	Large cranberry	No	Bogs
<i>Vaccinium myrtilloides</i>	Canada blueberry	Yes	Bogs and sandy woods
<i>Vaccinium oxycoccos</i>	Small cranberry	No	Bogs
<i>Valeriana edulis</i>	Common valerian	Yes	Low prairies
<i>Veronica americana</i>	American brooklime	No	--
<i>Vicia caroliniana</i>	Wood vetch	No	Rich dry-mesic woods
<i>Viola adunca</i>	Sand violet	No	--
<i>Viola affinis</i>	Leconte's violet	No	--
<i>Viola nephrophylla</i>	Northern bog violet	Yes	--
<i>Viola pedata</i>	Bird's-foot violet	No	Dry prairie remnants
<i>Viola pedatifida</i>	Prairie violet	No	Dry prairie remnants
<i>Viola renifolia</i>	Kidney-leaved violet	No	--

Table 17 (continued)

Species Name	Common Name	Listed in PR-42	Notes
<i>Viola sagittata</i>	Arrow-leaved violet	No	--
<i>Vitis aestivalis</i>	Summer grape	No	Few stations
<i>Vitis vulpina</i>	Frost grape	Yes	--
<i>Waldsteinia fragarioides</i>	Barren strawberry	Yes	Very few stations
<i>Wolffia brasiliensis</i>	Brazilian watermeal	No	--
<i>Wolffia punctata</i>	Dotted watermeal	Yes	--
<i>Zannichellia palustris</i>	Horned pondweed	Yes	--
<i>Zizania aquatica</i>	Wild rice	Yes	--
<i>Zizania palustris</i>	Northern wild rice	No	--
<i>Zizia aptera</i>	Heart-leaved golden Alexanders	No	Wet-mesic prairie remnants
<i>Zygadenus elegans</i>	White camas	Yes	Also spelled <i>Zigadenus</i>

SPECIES FORMERLY LISTED IN SEWRPC PLANNING REPORT NUMBER 42 AS UNCOMMON

Species Name	Common Name	Reason For De-listing
<i>Allium cernuum</i>	Nodding wild onion	More common
<i>Aralia nudicaulis</i>	Wild sarsaparilla	More common and widespread
<i>Asclepias ovalifolia</i>	Dwarf milkweed	Added threatened by Wisconsin Department of Natural Resources
<i>Asclepias quadrifolia</i>	Four-leaved milkweed	Excluded from Wisconsin flora
<i>Cacalia suaveolens</i>	Sweet Indian plantain	= <i>Hasteola suaveolens</i> ; added special concern by Wisconsin Department of Natural Resources
<i>Carex bromoides</i>	Brome hummock sedge	More common and widespread
<i>Carex deweyana</i>	Dewey's hummock sedge	More common and widespread
<i>Cinna arundinacea</i>	Wood reed grass	More common and widespread
<i>Cypripedium pubescens</i>	Large yellow lady's-slipper	A variety listed special concern by Wisconsin Department of Natural Resources
<i>Diervilla lonicera</i>	Bush honeysuckle	More common and widespread
<i>Elodea nuttallii</i>	Slender waterweed	More common and widespread
<i>Gerardia flava</i>	Smooth false-foxglove	Excluded from Wisconsin flora
<i>Hydrophyllum appendiculatum</i>	Great waterleaf	Added special concern by Wisconsin Department of Natural Resources
<i>Myriophyllum verticillatum</i>	Whorled water-milfoil	More common and widespread
<i>Nyssa sylvatica</i>	Black gum	Added special concern by Wisconsin Department of Natural Resources
<i>Opuntia compressa</i>	Western prickly-pear	Excluded from Wisconsin flora
<i>Panicum flexile</i>	Wiry panic grass	More common and widespread
<i>Panicum lindheimeri</i>	Western panic grass	More common and widespread
<i>Panicum praecocius</i>	Long-haired panic grass	More common and widespread
<i>Polemonium reptans</i>	Jacob's ladder	More common and widespread
<i>Potamogeton gramineus</i>	Grass-leaved pondweed	More common and widespread
<i>Pyrola elliptica</i>	Large-leaf shinleaf	More common and widespread
<i>Quercus muehlenbergii</i>	Chinkapin oak	Added special concern by Wisconsin Department of Natural Resources
<i>Ranunculus hispidus</i>	Rough buttercup	More common and widespread
<i>Rhynchospora capitellata</i>	Clustered beak-rush	Does not occur in southeastern Wisconsin Region
<i>Saxifraga pensylvanica</i>	Swamp saxifrage	More common and widespread
<i>Scirpus heterochaetus</i>	Slender bulrush	Added special concern by Wisconsin Department of Natural Resources
<i>Senecio plattensis</i>	Prairie ragwort	Added special concern by Wisconsin Department of Natural Resources
<i>Sisyrinchium albidum</i>	Common blue-eyed-grass	More common and widespread
<i>Sisyrinchium angustifolium</i>	Short blue-eyed-grass	Added special concern by Wisconsin Department of Natural Resources
<i>Sisyrinchium campestre</i>	Prairie blue-eyed-grass	More common and widespread
<i>Taxus canadensis</i>	Canada yew	Added special concern by Wisconsin Department of Natural Resources
<i>Trillium cernuum</i>	Nodding trillium	More common and widespread
<i>Verbena simplex</i>	Slender vervain	Added special concern by Wisconsin Department of Natural Resources
<i>Vulpia octoflora</i>	Slender fescue	More common and widespread

Source: Wisconsin Department of Natural Resources and SEWRPC.

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Section 6

CHANGES TO NATURAL AREAS AND CRITICAL SPECIES HABITAT SITES INVENTORIED IN SEWRPC PLANNING REPORT NUMBER 42

NEED FOR PLAN REVISION

To remain vital, the Natural Areas Plan must be periodically reviewed and revised to incorporate changes in the regional landscape. Section 3 of this report documented both the progress that had been made in implementing the proposals set forth in SEWRPC Planning Report No. 42, and losses and degradation of natural areas and critical species habitat sites since preparation of that report. Section 4 listed those newly inventoried sites that should be added as natural areas and critical species habitat sites. Additionally, the updated plan should incorporate new data on the natural landscape of the Region that reflect changes that have taken place in many of the sites originally inventoried since completion of Planning Report No. 42. This re-evaluation of natural areas uses more complete and current information, and employs the basic principles and concepts of the previously adopted plan, to enable a better comparison to other similar sites in the Region, and thus to a better scientific evaluation of the quality of the site. 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. As discussed in Section 3, 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 investigations.

Specifically, this work element included re-inventorying existing sites in the field; re-evaluating existing sites in light of updated information; and analyzing boundaries for any necessary adjustments using the most recent (2005) color aerial photography. In addition, pertinent data acquired through other, but related, Commission field work, such as wetland and environmental corridor delineations of areas not previously considered as potential natural areas, has led to evaluation of these sites as proposed natural areas, or, at other times, has resulted in the discovery of new critical species sites.

RESULTS OF SITE RE-EVALUATION

A total of nine natural areas and critical species habitat sites were upgraded in classification through a thorough re-evaluation of their status (Table 18). 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.

Table 18

**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
Fish and Wildlife Service Area	Ozaukee County T10N R22E Sections 9, 10 Town of Grafton	Critical Species Habitat	NA-3	Improved wildlife habitat
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
Jackson Swamp State Natural Area	Washington County T10N R20E Sections 1, 2, 8, 9, 10, 14, 15, 16, 17 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
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
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
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

Source: SEWRPC.

The original delineations of natural areas were made on aerial photographic prints acquired in 1990. These hardcopy images are not true maps and contain some horizontal displacement caused by ground relief. The natural area boundaries were subsequently digitized and quantified using the Commission's geographic information system (GIS) computer software. In 1995 and more recently the Commission has acquired aerial orthophotography, which is aerial photography that is enhanced by the removal of horizontal displacement caused by ground relief, thereby creating image products that can be used as true maps. The original natural area boundaries have recently been reviewed and adjusted to fit the more accurate orthophotography. Measurements of the acreages of the revised natural areas using GIS software will naturally differ from the original acreages due to the more accurate placement of the boundaries of these features on current orthophotography.

After reviewing the most recent aerial photography, a total of 22 NA-1 quality sites showed a net change in their areal extent (Table 19). Nineteen of these sites 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 (Table 20). Forty-seven of these sites 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 (Table 21). Ninety-seven of these sites 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.

A total of 104 Critical Species Habitat sites showed a net change in their areal extent (Table 22). Sixty-three of these sites 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.

Thus, because of the factors previously outlined, all natural area sites showed a net increase of 4,542 acres, or 8 percent, through boundary revisions, while critical species habitat area sites showed a net increase of 777 acres, or 6 percent, through boundary revisions.



Uncontrolled shrub invasions into southeastern Wisconsin prairies have not only shaded out the prairie forbs and grasses, but robbed them of essential nutrients and water as well. An effective shrub control program is necessary for the long term management of prairies, oak openings, and cedar glade related habitats.

The above photograph shows an All Season Vehicle (ASV) forestry mower doing a final shrub “clean up” cutting at the Scuppernong River Habitat Area near Eagle, Wisconsin.

Source: Ronald C. Kurowski, Wisconsin Department of Natural Resources.



Controlled burn management not only helps to manage the invasion of woody vegetation, but also releases essential nutrients which contribute to the flowering and seed production of native prairie plants. This management practice, combined with shrub cutting and targeted herbicide treatment, has effectively contributed to the restoration of once marginal habitat to high quality prairie. The above photograph was taken during such a controlled burn at the Scuppernong River Habitat Area near Eagle, Wisconsin.

Source: Ronald C. Kurowski, Wisconsin Department of Natural Resources.

Table 19

**CHANGES IN MAPPED AREAL EXTENT OF NATURAL AREAS OF STATEWIDE
SIGNIFICANCE (NA-1) DESIGNATED IN SEWRPC PLANNING REPORT NUMBER 42**

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Carol Beach Low Prairie and Panne	Kenosha County T1N R23E Sections 17, 18 Village of Pleasant Prairie	+4 (39)	Adjust boundaries
Chiwaukee Prairie State Natural Area	Kenosha County T1N R23E Sections 31, 32 Village of Pleasant Prairie	-1 (309)	Adjust boundaries
Cedarburg Bog State Natural Area	Ozaukee County T11N R21E Sections 19, 20, 21, 28, 29, 30, 31, 32, 33 Town of Saukville	+54 (2,009)	Adjust boundaries
Riveredge Creek and Ephemeral Pond State Natural Area	Ozaukee County T11N R21E Sections 7, 8 Town of Saukville	+3 (97)	Adjust boundaries
Sapa Spruce Bog State Natural Area	Ozaukee County T11N R21E Section 30 Town of Saukville	+4 (59)	Adjust boundaries
Elm Island Bog—Island Oak Woods	Racine County T4N R19E Sections 23, 24, 25, 26 Town of Waterford	+1 (68)	Adjust boundaries
Kansasville Railroad Prairie	Racine County T3N R20E Sections 25, 26, 35, 36 Town of Dover T3N R21E Section 30 Town of Yorkville	+14 (14)	Adjust boundaries
Tichigan Fen and Woods	Racine County T4N R19E Sections 21, 22 Town of Waterford	+13 (118)	Add wooded buffer to north
Bluff Creek Fens State Natural Area	Walworth County T4N R15E Sections 13, 14, 23, 24 Town of Whitewater	-79 (106)	Remove extraneous areas
Bluff Creek Woods State Natural Area	Walworth County T4N R15E Sections 18, 19 Town of Whitewater T4N R16E Sections 18, 19 Town of LaGrange	+33 (338)	Adjust boundaries to include appropriate wooded area
Lulu Lake and Eagle Spring Lake Wetland Complex and Adjacent Uplands State Natural Area	Walworth County T4N R17E Sections 1, 2, 3, 10, 11 Town of Troy Waukesha County T5N R17E Section 35 Town of Eagle	+101 (970)	Adjust boundaries; add more suitable habitat

Table 19 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Young Prairie State Natural Area	Walworth County T4N R16E Section 5 Town of LaGrange Jefferson County T5N R16E Section 32 Town of Palmyra	+7 (62)	Adjust boundaries
Murphy Lake-McConville Lake Wetland Complex	Washington County T9N R18E Sections 21, 22, 27, 28, 33, 34 Town of Erin	-3 (890)	Residential loss
Smith Lake and Wetlands	Washington County T12N R19E Sections 26, 35 Town of Barton	+40 (130)	Combine with Smith Lake Swamp (NA-3)
Genesee Oak Opening and Yatzek's Fen State Natural Area	Waukesha County T6N R18E Section 28 Town of Genesee	+1 (95)	Adjust boundaries
Kettle Moraine Fen and Low Prairie State Natural Area	Waukesha County T5N R17E Section 3, 4, 9, 10 Town of Eagle	+41 (109)	Expand to include restored prairie habitat
Monches Woods	Waukesha County T8N R18E Sections 3, 4, 10 Town of Merton	+10 (322)	Adjust boundaries to include more wooded area
Mukwonago Fen, Sedge Meadow, and Tamarack Relict	Waukesha County T5N R18E Sections 28, 33 Town of Mukwonago	+10 (232)	Adjust boundaries
Muskego Park Hardwoods State Natural Area	Waukesha County T5N R20E Section 17 City of Muskego	+27 (73)	Loss at northwest; expand north and east to include appropriate wooded area
Ottawa Lake Fen State Natural Area	Waukesha County T6N R17E Section 34 Town of Ottawa	+1 (25)	Adjust boundaries
Scuppermong Prairie State Natural Area	Waukesha County T5N R17E Sections 8, 9, 16, 17, 20 Town of Eagle	+141 (572)	Expand to include restored prairie habitat
Upper Mukwonago River	Waukesha County T5N R18E Sections 31, 32, 33 Town of Mukwonago T5N R17E Section 36 Town of Eagle	+43 (172)	Expand west and center

Source: SEWRPC.

Table 20

CHANGES IN MAPPED AREAL EXTENT OF NATURAL AREAS OF REGIONAL OR COUNTYWIDE SIGNIFICANCE (NA-2) DESIGNATED IN SEWRPC PLANNING REPORT NUMBER 42

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
104 th Street Mesic Prairie	Kenosha County T1N R23E Section 19 Village of Pleasant Prairie	-1 (11)	Adjust boundaries
Barnes Creek Dunes and Panne	Kenosha County T1N R23E Sections 19, 20 Village of Pleasant Prairie	+5 (8)	Add prairie habitat to north
Bristol Woods	Kenosha County T1N R21E Sections 21, 22 Town of Bristol	-1 (182)	Adjust boundaries
Camp Lake Marsh	Kenosha County T1N R20E Sections 20, 21, 28, 29, 32, 33 Town of Salem	-1 (293)	Adjust boundaries
Merkt Woods	Kenosha County T1N R21E Sections 8, 17 Town of Bristol	-8 (91)	Loss at north end to development
Mud Lake Sedge Meadow	Kenosha County T1N R21E Sections 32, 33 Town of Bristol	+4 (51)	Adjust boundaries
Petrifying Springs Woods	Kenosha County T2N R22E Sections 2, 11 Town of Somers	+52 (145)	Add wooded areas south, north, and east
Harris Marsh and Oak Woods	Kenosha County T2N R20E Section 36 Town of Brighton T2N R21E Section 31 Town of Paris T1N R20E Section 1 Town of Salem	+12 (225)	Extend boundaries north and south to include wetlands
Tobin Road Prairie	Kenosha County T1N R23E Sections 29, 30 Village of Pleasant Prairie	+10 (14)	Adjust boundaries to include additional prairie habitat
Falk Park Woods	Milwaukee County T5N R22E Section 7 City of Oak Creek	+1 (77)	Adjust boundaries
Root River Canal Woods	Milwaukee County T5N R21E Section 34 City of Franklin Racine County T4N R21E Section 3 Town of Raymond	+36 (279)	Adjust boundaries to include more wooded area

Table 20 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Root River Wet-Mesic Woods—West	Milwaukee County T5N R21E Sections 35, 36 City of Franklin	+13 (260)	Add wooded area to west
St. Francis Seminary Woods	Milwaukee County T6N R22E Sections 14, 15 City of St. Francis	+15 (37)	Include good quality woods to north
Cedarburg Beech Woods State Natural Area	Ozaukee County T11N R21E Section 30 Town of Saukville	+4 (130)	Adjust boundaries
Harrington Beach Lacustrine Forest	Ozaukee County T12N R23E Section 19 Town of Belgium	+19 (178)	Adjust boundaries; eliminate non-natural areas; add wooded areas
Huiras Lake Woods and Bog	Ozaukee County T12N R21E Sections 8, 9, 10, 16 Town of Fredonia	+5 (435)	Adjust boundaries; classification upgraded to NA-1
Kinnamon Conifer Swamp	Ozaukee County T11N R21E Sections 18, 19 Town of Saukville	+9 (382)	Adjust northwest border
Pigeon Creek Low and Mesic Woods	Ozaukee County T9N R21E Section 10 City of Mequon	+1 (81)	Adjust boundaries
South Conifer Swamp	Ozaukee County T11N R21E Section 20 Town of Saukville	+1 (52)	Adjust boundaries
Hunts Woods	Racine County T4N R22E Section 3 Village of Caledonia	+2 (34)	Adjust boundaries
Karcher Springs State Natural Area	Racine County T2N R19E Section 21 Town of Burlington	-4 (23)	Adjust boundaries
Leda Lake Fen-Meadow	Racine County T3N R19E Sections 20, 21, 29 Town of Burlington	+1 (221)	Adjust boundaries
Norris Marsh and Slough	Racine County T4N R19E Sections 2, 3, 10 Town of Waterford Waukesha County T5N R19E Sections 34, 35 Town of Vernon	-3 (212)	Adjust boundaries
Rosewood Railroad Prairie	Racine County T3N R20E Sections 31, 32, 33, 34 Town of Dover	+7 (18)	Adjust boundaries

Table 20 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Tichigan Marsh	Racine County T4N R19E Sections 9, 10, 15, 16 Town of Waterford	+19 (447)	Extend to include southern wetlands
Union Grove Railroad Prairie	Racine County T3N R21E Sections 25, 26, 27, 28, 29 Town of Yorkville	+12 (32)	Adjust boundaries
Waubessee Oak Woods and Tamarack Relict	Racine County T4N R20E Section 7 Town of Norway	+18 (169)	Adjust boundaries to include more woodland
Comus Lake Wetland Complex	Walworth County T2N R16E Sections 5, 6, 7, 8 Town of Delavan	+1 (291)	Adjust boundaries
Delavan Prairie-Fen	Walworth County T2N R16E Section 30 Town of Delavan	+30 (107)	Expand to northeast to include more habitat
LaGrange Oak Woods	Walworth County T4N R16E Sections 8, 17, 18, 20 Town of LaGrange	+70 (698)	Extend north boundary; add old field/conifer plantation critical species habitat area to south
Lake Ivanhoe Fen and Sedge Meadow	Walworth County T2N R18E Sections 34, 35 Town of Lyons	+2 (93)	Adjust boundaries
Muir Oak Woods and Duffin Road Fen	Walworth County T4N R16E Sections 3, 4, 9, 10, 16 Town of LaGrange	+1 (664)	Adjust boundaries
Blue Hills Woods	Washington County T11N R19E Section 3 City of West Bend, T11N R19E Section 10 Town of Barton	-3 (266)	Adjust boundaries
Daniel Boone Bogs and Woods	Washington County T9N R19E Sections 7, 8 Town of Richfield	+121 (21)	Expand borders to include upland woods
Gilbert Lake Wetlands and Uplands	Washington County T11N R19E Sections 17, 20 Town of West Bend	+57 (130)	Combine with Critical Species Habitat area, "Gilbert Lake"
Glacial Trail Forest	Washington County T12N R19E Sections 11, 14 Town of Kewaskum	-1 (223)	Adjust boundaries
Holy Hill Woods	Washington County T9N R18E Sections 2, 11, 14 Town of Erin	+3 (256)	Adjust boundaries

Table 20 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Little Cedar Lake Wetlands	Washington County T11N R19E Sections 32, 33 Town of West Bend	-3 (137)	Adjust boundaries
Mud Lake Upland Woods	Washington County T10N R19E Section 19 Town of Polk	+2 (54)	Adjust boundaries
Muth Woods	Washington County T11N R19E Section 34 City of West Bend	-9 (30)	Losses north and south to residential development; downgraded to NA-3 status
North Branch Woods	Washington County T12N R20E Section 25 Town of Farmington	+84 (96)	Some loss to residential development; expand to include wooded area to west
Reinartz Cedar Swamp	Washington County T11N R20E Sections 35, 36 Town of Trenton	+2 (119)	Adjust boundaries
Schoenbeck Woods	Washington County T11N R20E Sections 20, 29 Town of Trenton	+2 (195)	Adjust boundaries
Silverbrook Lake Woods	Washington County T11N R19E Sections 15, 21, 22, 27 Town of West Bend	-2 (404)	Residential loss
St. Michael's Woods	Washington County T12N R19E Section 13, 14, 24 Town of Kewaskum	+2 (84)	Adjust boundaries
Toland Swamp	Washington County T9N R18E Sections 18, 19, 20 Town of Erin	+9 (193)	Adjust boundaries
Wayne Swamp	Washington County T12N R18E Sections 13, 14, 23, 24 Town of Wayne T12N R19E Sections 18, 19 Town of Kewaskum	+21 (1,126)	Adjust boundaries to include more wetland
Ashippun River Lowlands	Waukesha County T8N R17E Sections 9, 10, 15, 16 Town of Oconomowoc	+4 (244)	Adjust boundaries
Bark River Marsh	Waukesha County T7N R17E Section 23 Town of Summit	+24 (158)	Boundaries expanded to include lake and wooded upland border
Beaver Dam Lake	Waukesha County T5N R17E Section 6 Town of Eagle	-3 (121)	Adjust boundaries

Table 20 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Big Bend Wet-Mesic Woods	Waukesha County T5N R19E Sections 22, 23 Town of Vernon	-2 (427)	Loss to residences; includes Martin's Low Woods State Natural Area
Brown Lake and Sedge Meadow	Waukesha County T5N R17E Section 25 Town of Eagle T5N R18E Section 30 Town of Mukwonago	+110 (38)	Expand to west to include oak savanna, dry prairie, and fen
Eagle Dry Prairie and Grotjen's Fen	Waukesha County T5N R17E Sections 19, 20, 29, 30 Town of Eagle	-19 (79)	Adjust boundaries
Eagle Fen and Spring	Waukesha County T5N R17E Section 3 Town of Eagle T6N R17E Section 34 Town of Ottawa	+35 (155)	Adjust boundaries
Eagle Oak Opening and Dry Prairies State Natural Area	Waukesha County T5N R17E Sections 19, 20, 29, 30, 31 Town of Eagle	+122 (466)	Add Critical Species Habitat area, "Shelter Two Ridge," and large area of Kettle Moraine State Forest woodland
Falk Fen and Woods	Waukesha County T6N R19E Sections 33, 34 Town of Waukesha	+4 (306)	Adjust boundaries
Fosters Woods	Waukesha County T6N R19E Section 20 Town of Waukesha	-1 (89)	Loss due to park road
Genesee Lake Road Bog	Waukesha County T7N R17E Sections 20, 29 Town of Summit	+1 (13)	Adjust boundaries
Henrietta Lake Bog	Waukesha County T6N R17E Section 2 Town of Ottawa	+1 (5)	Adjust boundaries
Menomonee Falls "Tamarack" Swamp	Waukesha County T8N R20E Sections 9, 10, 15, 21, 22, 27, 28 Village of Menomonee Falls	-9 (831)	Exclude disturbed center portion
Phantom Lake Wetlands	Waukesha County T5N R18E Sections 27, 34 Town of Mukwonago Village of Mukwonago	+3 (187)	Adjust boundaries
Spring Lake Sedge Meadow and Fens	Waukesha County T5N R18E Sections 3, 4, 9 Town of Mukwonago	+5 (219)	Adjust boundaries

Table 20 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Vernon Prairie-Fen	Waukesha County T5N R18E Sections 13, 14 Town of Mukwonago	+2 (37)	Adjust boundaries
Vernon Tamarack-Fen	Waukesha County T5N R18E Section 12 Town of Mukwonago	+2 (16)	Adjust boundaries
Zion Woods	Waukesha County T7N R20E Section 14 City of Brookfield	+1 (55)	Adjust boundaries

Source: SEWRPC.

Table 21

CHANGES IN MAPPED AREAL EXTENT OF NATURAL AREAS OF LOCAL SIGNIFICANCE (NA-3) DESIGNATED IN SEWRPC PLANNING REPORT NUMBER 42

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Bain Station Railroad Prairie	Kenosha County T1N R22E Section 9 Village of Pleasant Prairie	-1 (5)	Adjust boundaries
Carol Beach Estates Prairie	Kenosha County T1N R23E Section 19 Village of Pleasant Prairie	-3 (10)	Loss along boundaries to development
Des Plaines River Lowlands	Kenosha County T1N R22E Sections 17, 18, 19, 20 Village of Pleasant Prairie	+2 (411)	Adjust boundaries
Hooker Lake Marsh	Kenosha County T1N R20E Section 11 Town of Salem	-1 (48)	Adjust boundaries
Montgomery Lake Marsh	Kenosha County T1N R20E Sections 12, 13 Town of Salem	+9 (43)	Add wetlands to south
Pike River Low Woods	Kenosha County T1N R22E Sections 3, 10 Town of Somers	-3 (68)	Loss of area on north to highway realignment
Pleasant Railroad Prairie	Kenosha County T1N R22E Sections 29, 32 Village of Pleasant Prairie	+1 (5)	Add prairie habitat south of road
Blue Mound Country Club Woods	Milwaukee County T7N R21E Section 17 City of Wauwatosa	+1 (16)	Adjust boundaries
Bradley Woods	Milwaukee County T8N R21E Section 9 City of Milwaukee	-1 (35)	Losses south and north
Brown Deer Park Woods	Milwaukee County T8N R21E Section 13 Village of Brown Deer	+3 (40)	Adjust boundaries
Downer Woods	Milwaukee County T7N R22E Section 10 City of Milwaukee	-2 (13)	Loss of area to south
Esch-Honadel Woods	Milwaukee County T5N R22E Section 18 City of Oak Creek	-8 (72)	Loss of area south and center to residences
Fitzsimmons Road Woods	Milwaukee County T5N R21E Section 25 City of Franklin	-3 (42)	Loss of area on north to residences
Franklin (Puetz Road) Woods	Milwaukee County T5N R21E Sections 23, 24 City of Franklin	+6 (28)	Add contiguous woods to southwest

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Franklin Oak Woods and Oak Savanna	Milwaukee County T5N R21E Section 29 City of Franklin	+3 (76)	Refine boundaries
Grant Park Woods—Old Growth	Milwaukee County T5N R22E Section 1 City of South Milwaukee	+4 (38)	Add clay banks and seeps along Lake Michigan
Grobschmidt Park Wetlands and Upland Woods	Milwaukee County T5N R21E Sections 1, 2 City of Franklin	+3 (80)	Adjust boundaries
Harley-Davidson Woods	Milwaukee County T7N R21E Section 6 City of Wauwatosa	-11 (11)	Woods completely destroyed for factory expansion; no longer of natural area quality
Menomonee River Swamp—North	Milwaukee County T8N R21E Sections 19, 30 City of Milwaukee Waukesha County T8N R20E Section 24 Village of Menomonee Falls	+1 (78)	Loss at north end
Menomonee River Swamp—South	Milwaukee County T7N R21E Section 6 City of Wauwatosa	+60 (39)	Extend boundary north to include more wooded wetlands
Monastery Lake Wetlands	Milwaukee County T5N R21E Section 8 City of Franklin	+3 (45)	Adjust boundaries
Oakwood Park Oak Woods	Milwaukee County T5N R21E Sections 25, 26 City of Franklin	-14 (22)	Loss of much acreage; downgraded to Critical Species Habitat status
Root River Parkway Prairie	Milwaukee County T5N R21E Section 27 City of Franklin	+11 (27)	Expand to south and southeast to include wet prairie
Root River Parkway Woods	Milwaukee County T5N R21E Section 4 Village of Greendale	+9 (53)	Add area to southwest
Root River Riverine Forest	Milwaukee County T5N R22E Sections 31, 32, 33, 34 City of Oak Creek Racine County T4N R22E Sections 3, 4, 5, 6 Village of Caledonia	+7 (324)	Add wooded buffer to southwest
Ryan Creek Woods	Milwaukee County T5N R21E Section 28 City of Franklin	+15 (87)	Adjust to include wooded buffer

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Schlitz Audubon Center Woods and Beach	Milwaukee County T8N R22E Sections 9, 10 Village of Bayside	+18 (54)	Add contiguous woods to south within Doctors Park
Wedge Woods	Milwaukee County T5N R22E Section 23 City of Oak Creek	-2 (19)	Loss of area on west to residences
Whitnall Park Woods—South	Milwaukee County T5N R21E Sections 5, 8 City of Franklin T6N R21E Section 32 Village of Hales Corners	+8 (137)	Add southern wooded 'island'
Wood Creek Woods	Milwaukee County T5N R22E Section 20 City of Oak Creek	-8 (35)	Loss of area on north to residences; downgraded to Critical Species Habitat status
Beekeeper Bog	Ozaukee County T12N R21E Section 5 Town of Fredonia	+6 (15)	Adjust boundaries
Belgium Swamp—North	Ozaukee County T12N R22E Section 27 Town of Belgium	+2 (150)	Loss at southwest
Cedar Grove Swamp	Ozaukee County T12N R22E Sections 2, 3 Town of Belgium	+8 (177)	Adjust boundaries
Cedar Valley Swamp	Ozaukee County T12N R21E Sections 10, 11, 15 Town of Fredonia	-1 (141)	Adjust boundaries
Cedar-Sauk Low Woods	Ozaukee County T10N R21E Sections 5, 6 Town of Cedarburg T11N R21E Section 31 Town of Saukville Washington County T11N R20E Section 36 Town of Trenton	+6 (218)	Adjust boundaries
County Line Low Woods	Ozaukee County T12N R21E Sections 4, 5 Town of Fredonia Sheboygan County T13N R21E Sections 32, 33 Town of Sherman	+24 (272)	Adjust north boundary

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Department of Natural Resources Lowlands	Ozaukee County T12N R21E Section 7 Town of Fredonia	+1 (186)	Adjust boundaries
Five Corners Swamp	Ozaukee County T10N R21E Section 20 Town of Cedarburg	+2 (173)	Adjust boundaries
Hansen's Lake Wetland	Ozaukee County T11N R21E Section 4 Town of Saukville	+3 (13)	Adjust boundaries
Hawthorn Drive Forest	Ozaukee County T11N R22E Section 6 Town of Port Washington	+1 (54)	Adjust boundaries
Kohler Road Woods	Ozaukee County T12N R21E Sections 15, 22 Town of Fredonia	+4 (124)	Adjust boundaries
Lions Den Gorge	Ozaukee County T10N R22E Section 10 Town of Grafton	+1 (20)	Adjust boundaries
Mequon Wetland	Ozaukee County T9N R22E Section 20 City of Mequon	-1 (77)	Adjust east border
Mole Creek Swamp	Ozaukee County T10N R21E Section 2 Town of Cedarburg	+61 (89)	Add significant western area, part of Pleasant Valley Park
Pioneer Road Lowlands	Ozaukee County T12N R21E Sections 8, 17 Town of Fredonia	-1 (94)	Adjust boundaries
Sherman Road Woods	Ozaukee County T10N R21E Section 19 Town of Cedarburg	-1 (72)	Loss in west
Solar Heights Low Woods	Ozaukee County T9N R21E Sections 20, 21 City of Mequon	+2 (114)	Adjust boundaries
Spring Lake Beech Forest	Ozaukee County T12N R21E Section 2 Town of Fredonia	-3 (65)	Loss near center
Spring Lake Marsh	Ozaukee County T12N R21E Section 2 Town of Fredonia	+2 (19)	Adjust boundaries
Triple Woods	Ozaukee County T9N R21E Section 31 City of Mequon	+2 (51)	Adjust boundaries

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Ulao Lowland Forest	Ozaukee County T10N R22E Sections 2, 4, 5, 8, 9, 17 Town of Grafton	-5 (347)	Loss at north end of area
Waubeka Low Woods	Ozaukee County T12N R21E Sections 31, 32 Town of Fredonia	+1 (161)	Adjust boundaries
Burlington Hills Woods	Racine County T2N R19E Sections 5, 6, 7, 18 Town of Burlington Walworth County T2N R18E Sections 1, 12, 13 Town of Lyons	-135 (637)	Significant loss due to expanded quarry operations and residential development
Burlington Railroad Prairie	Racine County T2N R19E Section 6 Town of Burlington Walworth County T2N R18E Section 1 Town of Lyons	+1 (5)	Adjust boundaries
Campbell Woods	Racine County T3N R22E Sections 35, 36 Village of Mt. Pleasant	-29 (72)	Much wooded habitat lost to residential development; site downgraded to Critical Species Habitat
Church Road Lowlands	Racine County T3N R20E Section 16, 21 Town of Dover	-1 (25)	Loss at southeast
Dover Wildlife Area Wetlands	Racine County T3N R20E Section 12 Town of Dover	+10 (39)	Exclude disturbed corner; include more wetland
Honey Lake Leatherleaf Bog	Racine County T3N R19E Sections 19, 20 Town of Burlington	-6 (69)	Loss due to residences
Ives Grove Woods	Racine County T3N R21E Section 12 Town of Yorkville	-24 (164)	Loss along borders to residential development
Rowntree Road Woods	Racine County T3N R19E Sections 11, 12 Town of Rochester	+3 (74)	Adjust boundaries
Sylvania Railroad Prairie	Racine County T3N R22E Sections 20, 30 Village of Mt. Pleasant	+4 (7)	Adjust boundaries
Tabor Woods	Racine County T4N R22E Sections 13, 14 Village of Caledonia	-1 (107)	Loss due to residential development

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Tichigan Wet Prairie	Racine County T4N R19E Section 10 Town of Waterford	+1 (15)	Adjust boundaries
Van Valin Woods	Racine County T4N R19E Section 2 Town of Waterford	-4 (30)	Loss due to residences
Wehmhoff Park Upland Woods and Wetlands	Racine County T3N R19E Sections 20, 29 Town of Burlington	+7 (73)	Extend boundaries into wetlands north and south
Wind Lake Wet Meadow	Racine County T4N R20E Section 4 Town of Norway	-1 (12)	Loss at northeast
Baywood Road Sedge Meadow	Walworth County T4N R16E Section 35 Town of LaGrange T3N R16E Section 2 Town of Sugar Creek	-2 (29)	Adjust boundaries
Bloomfield Prairie	Walworth County T1N R18E Sections 26, 27 Town of Bloomfield	+2 (4)	Adjust boundaries
Darien Oak Woods	Walworth County T2N R15E Sections 9, 10, 15, 16 Town of Darien	-40 (348)	Loss at north end to residential development
Granzeau Woods	Walworth County T3N R17E Section 12 Town of Lafayette	+55 (78)	Expand boundaries to include more wooded area
Hafs Road Marsh	Walworth County T1N R18E Sections 1, 2, 11 Town of Bloomfield	+3 (106)	Adjust boundaries to include entire wetland
Honey Creek Fen	Walworth County T4N R17E Section 31 Town of Troy	+1 (7)	Adjust boundaries
Ivanhoe Creek Fen	Walworth County T2N R18E Section 35 Town of Lyons	-2 (32)	Loss of west portion to highway realignment
Lake Como Wetlands	Walworth County T2N R17E Section 32 Town of Geneva	-4 (50)	Adjust boundaries
Lake Geneva Tamarack Relict	Walworth County T2N R18E Sections 28, 29 Town of Lyons	+3 (160)	Adjust boundaries

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Lake Ivanhoe Sedge Meadow	Walworth County T1N R18E Sections 3, 10 Town of Bloomfield	+79 (71)	Add large wetland area to south
Lake Lawn Wetland Complex	Walworth County T2N R16E Sections 13, 14, 23 Town of Delavan	+17 (276)	Adjust boundaries
Lake Loraine Woods—East	Walworth County T3N R15E Section 8 Town of Richmond	-1 (75)	Adjust boundaries
Lake Wandawega Marsh	Walworth County T3N R16E Sections 2, 3, 11 Town of Sugar Creek	+1 (82)	Adjust boundaries
Marsh Road Railroad Prairie	Walworth County T2N R16E Section 9 Town of Delavan	+2 (4)	Adjust boundaries
Nordic Trail Oak Woods	Walworth County T4N R16E Sections 2, 3, 10, 11, 15 Town of LaGrange	+10 (483)	Add wooded areas to northeast
Pallottine Maple Woods	Walworth County T3N R17E Sections 11, 14 Town of Lafayette	-1 (153)	Adjust boundaries
Pell Lake Railroad Prairie	Walworth County T1N R18E Sections 8, 17 Town of Bloomfield	+5 (4)	Adjust boundaries
Peninsula Woods	Walworth County T1N R17E Sections 5, 6 Town of Linn	-2 (39)	Adjust boundaries
Silver Lake	Walworth County T3N R16E Sections 11, 14 Town of Sugar Creek	+10 (86)	Adjust boundaries
Sugar Creek Fens, Springs, and Sedge Meadow	Walworth County T3N R17E Section 15 Town of Lafayette	-2 (36)	Adjust boundaries
Troy Fen	Walworth County T4N R17E Sections 31, 32 Town of Troy	-2 (13)	Adjust boundaries
Turtle Creek Sedge Meadow and Fen	Walworth County T2N R15E Sections 17, 18 Town of Darien	+12 (159)	Add upland buffer to north
Warbler Trail Wetlands	Walworth County T2N R17E Sections 26, 27 Town of Geneva	+84 (40)	Expand to include wetlands to west

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Williams Bay Lowlands	Walworth County T1N R17E Section 6 Village of Williams Bay	+8 (8)	Expand boundaries to include restored wetlands
Allenton Swamp	Washington County T11N R18E Sections 22, 26, 27, 28, 35 Town of Addison	-1 (1,091)	Adjust boundaries
Colgate Shrub-Carr	Washington County T9N R19E Sections 26, 35 Town of Richfield	-1 (38)	Adjust boundaries
Donegal Road Woods	Washington County T9N R18E Sections 13, 24 Town of Erin T9N R19E Section 18 Town of Richfield	+3 (137)	Adjust boundaries
Faber-Pribyl Woods	Washington County T9N R20E Sections 4, 9 Village of Germantown	+13 (39)	Add wooded area to east
Fellenz Hardwood Swamp	Washington County T11N R20E Section 16 Town of Trenton	+18 (58)	Add area on north side of Milwaukee River
Hoelz Swamp	Washington County T9N R20E Sections 10, 11, 14, 15 Village of Germantown	+1 (109)	Adjust boundaries
Kettle Moraine Drive Woods	Washington County T12N R19E Sections 2, 11, 12 Town of Kewaskum Fond du Lac County T13N R19E Section 35 Town of Auburn	+6 (317)	Adjust boundaries
Lake Five Woods	Washington County T9N R19E Sections 31, 32 Town of Richfield	-7 (152)	Loss to residential development
Lizard Mound Woods	Washington County T12N R20E Sections 31, 32 Town of Farmington	+1 (28)	Adjust boundaries
Mason Creek Swamp	Washington County T9N R18E Sections 30, 31 Town of Erin	-7 (432)	Loss on eastern border
Milwaukee River Swamp	Washington County T12N R20E Sections 1, 2, 11, 12 Town of Farmington	+1 (546)	Loss at southeast corner

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Mueller Woods	Washington County T10N R19E Section 6 Town of Polk	-97 (97)	Extensive development within woods; site downgraded to non-natural area status
Newark Road Wetland	Washington County T11N R19E Section 1 Town of Barton	-1 (9)	Adjust boundaries
Pike Lake Sedge Meadow	Washington County T10N R18E Section 23 Town of Hartford	+30 (14)	Expand borders to include suitable wetland
Pike Lake Woods	Washington County T10N R18E Sections 23, 24 Town of Hartford	+149 (131)	Expand to include more wooded area
Poplar Road Lacustrine Forest	Washington County T11N R20E Sections 9, 10 Town of Trenton	+5 (177)	Adjust boundaries
Rock River Marsh	Washington County T12N R18E Sections 30, 31, 32 Town of Wayne	+13 (326)	Adjust boundaries
Sandy Knoll Swamp	Washington County T11N R20E Sections 4, 5 Town of Trenton T12N R20E Section 33 Town of Farmington	+53 (339)	Add wooded area to west; site upgraded to NA-2 status
Schalla Tamarack Swamp	Washington County T11N R20E Section 33 Town of Trenton	+1 (16)	Adjust boundaries
Slinger Upland Woods	Washington County T10N R19E Sections 8, 9 Town of Polk	-24 (196)	Loss to residential development
St. Augustine Road Sedge Meadow	Washington County T9N R18E Section 24 Town of Erin	-1 (11)	Adjust boundaries
STH 28 Woods	Washington County T12N R19E Sections 12, 13 Town of Kewaskum	-23 (145)	Loss to residential development
STH 60 Swamp	Washington County T10N R18E Section 14, 23 Town of Hartford	-1 (32)	Adjust boundaries
Stockcar Swamp	Washington County T12N R18E Sections 23, 24, 25, 26 Town of Wayne	+4 (240)	Adjust boundaries
Theresa Swamp	Washington County T12N R18E Sections 17, 18, 19, 20, 29, 30 Town of Wayne	+8 (944)	Adjust boundaries

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Thompson Swamp	Washington County T9N R18E Section 10 Town of Erin	+32 (182)	Adjust boundaries
USH 41 Swamp	Washington County T9N R20E Sections 28, 33 Village of Germantown	+25 (228)	Loss on east boundary and expansion elsewhere
Wayne Creek Swamp	Washington County T12N R18E Section 21, 22, 27, 28 Town of Wayne	+3 (178)	Adjust boundaries
Ziegler Woods	Washington County T11N R19E Section 28 Town of West Bend	+2 (170)	Adjust boundaries
Bishops Woods	Waukesha County T7N R20E Sections 25, 36 City of Brookfield	-8 (52)	Expansion of business park
Brookfield Swamp	Waukesha County T7N R20E Sections 21, 28 City of Brookfield	-2 (203)	Adjust boundaries
Camp Whitcomb Lowland	Waukesha County T8N R18E Sections 2, 11 Town of Merton	+1 (48)	Adjust boundaries
Capitol Drive Sedge Meadow and Wet Prairie	Waukesha County T7N R19E Section 6 City of Pewaukee T7N R18E Section 1 Town of Delafield	-1 (91)	Adjust boundaries
Chenequa Wetland Complex	Waukesha County T8N R18E Sections 8, 9, 16, 17 Town of Merton	+3 (111)	Adjust boundaries
CTH D Railroad Prairie	Waukesha County T6N R18E Sections 15, 22 Town of Genesee	-2 (5)	Adjust boundaries; downgraded to non-natural area status
CTH ZC Lowlands	Waukesha County T6N R17E Sections 29, 31, 32 Town of Ottawa	-2 (380)	Adjust boundaries
Hartland Railroad Prairie	Waukesha County T7N R18E Section 2 Village of Hartland	-1 (4)	Adjust boundaries
Lapham Peak Woods	Waukesha County T7N R18E Section 29, 32, 33 Town of Delafield	+36 (451)	Adjust boundaries to include more wooded area
Larkin Lake	Waukesha County T6N R17E Section 15 Town of Ottawa	-1 (41)	Adjust boundaries

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Laura Lake Swamp	Waukesha County T7N R17E Sections 20, 21 Town of Summit	+4 (274)	Adjust boundaries
Lisbon Low Woods	Waukesha County T8N R19E Sections 10, 11 Town of Lisbon	-6 (267)	Loss at southeast
Mailman Road Railroad Prairie	Waukesha County T5N R17E Section 14 Town of Eagle	+3 (6)	Adjust boundaries
Malek Wetland	Waukesha County T5N R17E Sections 32, 33 Town of Eagle	+2 (94)	Adjust boundaries
Menomonee River Swamp	Waukesha County T8N R20E Section 25 Village of Menomonee Falls City of Milwaukee	+2 (29)	Adjust boundaries
Mukwonago Low Woods	Waukesha County T5N R18E Sections 31, 32 Town of Mukwonago Walworth County T4N R18E Sections 5, 6 Town of East Troy	+351 (372)	Area expanded to include upland woods and dry prairies within Rainbow Springs complex; change name to "Rainbow Springs Woods and Prairie"
Muskego Lake Marsh	Waukesha County T5N R20E Sections 13, 14, 15, 16, 21, 22, 23, 27, 28, 33, 34 City of Muskego	+1,965 (1,061)	Recent planned drawdowns of lake levels have added extensive deep and shallow marsh habitat to what had previously been open water
Nashotah House Woods	Waukesha County T7N R18E Sections 6, 7 City of Delafield Village of Nashotah	+1 (100)	Adjust boundaries
New Berlin Woods	Waukesha County T6N R20E Sections 11, 14 City of New Berlin	+1 (35)	Adjust boundaries
Norris Oak Woods and Wetlands	Waukesha County T5N R19E Sections 26, 35 Town of Vernon Racine County T4N R19E Section 1 Town of Waterford	+6 (364)	Adjust boundaries
North Prairie Railroad Prairie	Waukesha County T5N R18E Section 6 Town of Mukwonago	+2 (5)	Adjust boundaries

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Oconomowoc River Marsh	Waukesha County T8N R17E Sections 33, 34 Town of Oconomowoc	-1 (100)	Loss at north end
Ottawa Limestone Outcrop	Waukesha County T6N R17E Sections 11, 14 Town of Ottawa	-3 (70)	Loss to residential development
Paradise Springs Woods	Waukesha County T5N R17E Sections 15, 16, 21 Town of Eagle	+4 (97)	Adjust boundaries
Pebble Creek Wetlands	Waukesha County T6N R19E Sections 8, 17 Town of Waukesha City of Waukesha	+15 (60)	Adjust boundaries to include more wetlands
Perkins Property	Waukesha County T6N R17E Sections 5, 6 Town of Ottawa T7N R17E Sections 31, 32 Town of Summit	+7 (438)	Adjust boundaries
Peters Woods	Waukesha County T8N R20E Sections 5, 8 Village of Menomonee Falls	+13 (69)	Adjust boundaries to include more wooded area
Pewaukee Lake Wetland	Waukesha County T7N R19E Section 7 City of Pewaukee T7N R18E Sections 1, 12 Town of Delafield	-3 (68)	Adjust boundaries
Pewaukee Sedge Meadow	Waukesha County T7N R19E Section 8 City of Pewaukee	+2 (11)	Adjust boundaries
Raasch Tamarack Swamp	Waukesha County T8N R17E Sections 16, 17 Town of Oconomowoc	+1 (95)	Adjust boundaries
River Oaks Woods and Wetlands	Waukesha County T5N R19E Section 25 Town of Vernon	-12 (135)	Adjust boundaries
Sawyer Road Sedge Meadow	Waukesha County T7N R17E Section 36 Town of Summit	-1 (38)	Adjust boundaries; site upgraded to NA-2 status
Scuppernong Springs Dry Prairie and Woods	Waukesha County T6N R17E Section 34 Town of Ottawa	+45 (1)	Expand to include restored habitat
Sussex Swamp	Waukesha County T8N R19E Sections 11, 12 Town of Lisbon	+1 (147)	Adjust boundaries

Table 21 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Theater Swamp	Waukesha County T8N R20E Section 35 Village of Menomonee Falls	+2 (91)	Adjust boundaries
Zuba Woods	Waukesha County T8N R20E Sections 16, 17 Village of Lannon	+66 (51)	Expand to include more wooded area

Source: SEWRPC.

Table 22

**CHANGES IN MAPPED AREAL EXTENT OF CRITICAL SPECIES HABITAT
AREAS (CSH) DESIGNATED IN SEWRPC PLANNING REPORT NUMBER 42**

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Barnes Creek	Kenosha County T1N R23E Section 19 Village of Pleasant Prairie	+1 (28)	Adjust boundaries
Bradford School Woods	Kenosha County T2N R22E Section 25 City of Kenosha	-1 (20)	Loss on west side
Brighton-Dale Woods	Kenosha County T2N R20E Section 10 Town of Brighton	-110 (164)	Loss in southwest due to park Improvements to create additional recreation area; adjust boundaries
Hamilton Woods	Kenosha County T1N R19E Section 33 Village of Twin Lakes	+1 (17)	Adjust boundaries
Nedweski Parcel	Kenosha County T1N R23E Section 18 Village of Pleasant Prairie	+2 (14)	Adjust boundaries
Parkside Woods	Kenosha County T2N R22E Section 12 Town of Somers	+1 (14)	Adjust boundaries
Peterson Creek Wetland	Kenosha County T2N R20E Section 30 Town of Brighton	-16 (100)	Adjust boundaries
Piela Property	Kenosha County T1N R22E Section 9 Village of Pleasant Prairie	-4 (5)	Partial loss due to residential development
Poisl Woods	Kenosha County T2N R21E Section 1 Town of Paris	+3 (79)	Adjust boundaries
Thompson Woods	Kenosha County T2N R22E Section 13 Town of Somers	-2 (7)	Partial loss due to residential development
Trevor Creek Wet Prairie	Kenosha County T1N R20E Section 34 Town of Salem	-24 (66)	Loss to residential development
Unnamed Wetland	Kenosha County T1N R19E Sections 10, 15 Town of Wheatland	-1 (36)	Adjust boundaries
Wilmot Ski Hill Prairie	Kenosha County T1N R20E Section 31 Town of Salem	-83 (84)	Reduce to actual prairie habitat; eliminate disturbed shrubland as part of mapped habitat
Bender Park Woods and Clay Banks	Milwaukee County T5N R22E Section 25 City of Oak Creek	-2 (13)	Adjust east boundary where bluff has been stabilized

Table 22 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Bender Park Woods—South	Milwaukee County T5N R22E Section 25 City of Oak Creek	+1 (4)	Adjust boundaries
Brynwood Country Club Woods	Milwaukee County T8N R21E Section 15 City of Milwaukee	-2 (7)	Loss of wooded area due to road through center
Cambridge Avenue Woods	Milwaukee County T7N R22E Section 9 City of Milwaukee	+4 (12)	Adjust boundaries; extend north along Milwaukee River
Elm Road Woods—North	Milwaukee County T5N R21E Section 36 City of Franklin	+13 (19)	Adjust boundaries
Fox Point Clay Bluffs	Milwaukee County T8N R22E Sections 9, 16, 21, 28 Village of Fox Point	+7 (86)	Adjust boundaries
Meyers Woods	Milwaukee County T5N R22E Section 19 City of Oak Creek	-8 (18)	Some woods destroyed through residential development
Stadium Bluff Woods	Milwaukee County T7N R21E Section 35 City of Milwaukee	-2 (8)	Adjust boundaries
Underwood Parkway Woods	Milwaukee County T7N R21E Section 20 City of Wauwatosa	-3 (19)	Loss on east side for athletic fields
Cedar-Sauk Upland Woods	Ozaukee County T11N R21E Section 33 Town of Saukville	+6 (38)	Adjust boundaries
Eastbrook Road Woods	Ozaukee County T9N R22E Section 19 City of Mequon	+1 (8)	Adjust boundaries
Harrington Beach State Park Old Fields	Ozaukee County T12N R22E Section 24 Town of Belgium	+193 (202)	Additional grassland habitat within park boundaries
Pecard Sedge Meadow	Ozaukee County T9N R22E Section 19 City of Mequon	+1 (15)	Adjust boundaries
Sauk Creek Nature Preserve	Ozaukee County T11N R22E Section 29 Town of Port Washington	-9 (22)	Adjust boundaries to only include suitable habitat for critical species
Stauss Woods	Ozaukee County T9N R21E Section 33 City of Mequon	+1 (7)	Adjust boundaries

Table 22 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Breakers Woods	Racine County T4N R23E Section 16 Village of Caledonia	-5 (5)	All suitable habitat developed; site no longer considered as Critical Species Habitat
Burlington Crevasse Filling	Racine County T2N R19E Section 4 Town of Burlington	+11 (23)	Adjust boundaries
Caledonia Low Woods	Racine County T4N R23E Section 30 Village of Caledonia	+1 (29)	Adjust boundaries
Caledonia Sanitary Sewer Right-of-Way	Racine County T4N R22E Section 25 Village of Caledonia	+19 (75)	Combine with contiguous Critical Species Habitat area, "Caledonia Site South"
Cliffside Park Old Field	Racine County T4N R23E Section 7 Village of Caledonia	+50 (5)	Include expanded grassland habitat
Case-Eagle Park Dry Prairie and Woods (designated as Ela Park Dry Prairie and Woods in PR-42)	Racine County T3N R19E Section 10 Town of Rochester	+37 (74)	Combine with contiguous Critical Species Habitat area, "Ela Park Woods"
Four Mile Road Woods	Racine County T4N R23E Sections 19, 30 Village of Caledonia	+1 (30)	Adjust boundaries
Hoods Creek Swamp	Racine County T4N R22E Section 26 Village of Caledonia	+7 (20)	Adjust boundaries
Ives Grove Prairie Remnant	Racine County T3N R21E Section 13 Town of Yorkville	-1 (1)	No prairie habitat remaining; site no longer considered as Critical Species Habitat
Karcher Sedge-Carr	Racine County T2N R19E Sections 21, 22 Town of Burlington	+14 (235)	Adjust boundaries
Krieser Fen	Racine County T4N R20E Section 10 Town of Norway	-2 (2)	No suitable habitat remaining; site no longer considered as Critical Species Habitat
Landon Wetland	Racine County T4N R20E Section 10 Town of Norway	+1 (11)	Adjust boundaries
Maple Road Gravel Pit	Racine County T4N R19E Section 28 Town of Waterford	-4 (106)	Adjust boundaries
Margis Wildlife Area	Racine County T2N R19E Section 17 Town of Burlington	+2 (34)	Adjust boundaries

Table 22 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
North Bay Ravine and Beach	Racine County T4N R23E Section 33 Village of Caledonia	+1 (1)	Adjust boundaries
Patzke Fen	Racine County T4N R20E Section 3 Town of Norway	-17 (50)	Loss of habitat; adjust boundaries
Pritchard Park Woods	Racine County T3N R22E Section 24 City of Racine	+7 (3)	Include more park woodland
Ranger Mac Fen	Racine County T2N R19E Section 17 Town of Burlington	-6 (28)	Loss of habitat
River Bend Upland Woods	Racine County T4N R23E Section 31 Village of Caledonia	+1 (13)	Adjust boundaries
River Meadow Woods	Racine County T4N R22E Section 23 Village of Caledonia	+1 (13)	Adjust boundaries
Root River Bluff Woods	Racine County T4N R22E Section 26 Village of Caledonia	+8 (42)	Adjust boundaries
Root River Strip Woods	Racine County T4N R23E Section 31 Village of Caledonia	-8 (10)	Adjust boundaries
Sherwood Property	Racine County T4N R22E Section 2 Village of Caledonia	+1 (3)	Adjust boundaries
Washington Park Woods	Racine County T3N R23E Section 17 City of Racine	+2 (12)	Adjust boundaries
Waubeesee Lake Wetlands	Racine County T4N R20E Section 8 Town of Norway	+2 (16)	Adjust boundaries
Waxdale Railroad Prairie	Racine County T3N R22E Sections 15, 22 Village of Mt. Pleasant	-1 (2)	Loss of some prairie habitat
Wind Lake	Racine County T4N R20E Sections 3, 4, 8, 9 Town of Norway	+13 (55)	Adjust boundaries
Doyles Lake Prairies	Walworth County T4N R17E Sections 8, 9 Town of Troy	-199 (200)	Reduce to small prairie habitat patches; losses to residential development

Table 22 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Elkhorn Railroad Prairie Remnant	Walworth County T2N R17E Sections 5, 6 Town of Geneva	+6 (1)	Eliminate disturbed right-of-way to east; expand to include more prairie to west
Hargraves Road Sedge Meadow	Walworth County T3N R18E Section 17 Town of Spring Prairie	+1 (45)	Adjust boundaries
Harmony Hills Savanna	Walworth County T4N R17E Section 8 Town of Troy	+7 (70)	Adjust boundaries
LaGrange Campground Woods	Walworth County T4N R16E Section 10 Town of LaGrange	+3 (200)	Adjust boundaries
Lake No. 10 Open Woods	Walworth County T3N R15E Section 10 Town of Richmond	+150 (44)	Add woods north and south
Lauderdale Lakes Woods	Walworth County T4N R16E Section 35 Town of LaGrange	-17 (45)	Loss to residential development
Peterson Property	Walworth County T2N R18E Section 35 Town of Lyons	-10 (50)	Adjust boundaries
Radio Station Wetland	Walworth County T2N R18E Section 32 Town of Lyons	-4 (30)	Adjust boundaries
Railroad Lowland	Walworth County T1N R15E Sections 2, 11 Town of Sharon	-2 (66)	Adjust boundaries
Section Five Marsh and Pond	Walworth County T1N R18E Section 5 Town of Bloomfield	+3 (18)	Adjust boundaries
Sugar Creek Woods—North	Walworth County T3N R17E Sections 15, 16 Town of LaFayette	+40 (190)	Adjust boundaries
Sugar Creek Woods—South	Walworth County T3N R17E Sections 15, 16, 17, 21, 22 Town of LaFayette	-6 (122)	Adjust boundaries
Swift Lake Wetlands	Walworth County T1N R18E Section 3 Town of Bloomfield	-1 (10)	Adjust boundaries
Unnamed Wetland	Walworth County T3N R15E Section 4 Town of Richmond	+4 (22)	Adjust boundaries

Table 22 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
White River Railroad Prairie	Walworth County T2N R18E Section 1 Town of Lyons	-10 (22)	Adjust east boundary
Cameron Property	Washington County T11N R20E Section 8 Town of Trenton	-2 (12)	Adjust northeast boundary
Doll Woods	Washington County T11N R18E Section 16 Town of Addison	+3 (22)	Adjust boundaries
High School Woods	Washington County T11N R19E Section 24 City of West Bend	+2 (7)	Adjust boundaries
Jackson Woods	Washington County T10N R20E Section 20 Village of Jackson	+1 (24)	Add area to east; otherwise, much loss to residential development
Silver Lake Wetlands	Washington County T11N R19E Sections 27, 34 Town of West Bend	+4 (7)	Adjust boundaries
St. Anthony Maple Woods	Washington County T11N R18E Section 10 Town of Addison	+10 (90)	Adjust boundaries
Unnamed Wetland No. 2	Washington County T10N R18E Section 13 Town of Hartford	-14 (40)	Loss to residential development
Delopst Meadow	Waukesha County T6N R20E Section 6 City of New Berlin	-1 (24)	Adjust boundaries
Dog Trial Area	Waukesha County T6N R17E Section 27 Town of Ottawa	+6 (175)	Adjust boundaries
Dousman Mill Pond	Waukesha County T6N R17E Section 10 Village of Dousman	+39 (2)	Correct error in original location
Duck Lake	Waukesha County T7N R17E Section 22 Town of Summit	+8 (30)	Adjust boundaries
Eagle Dump Oak Opening	Waukesha County T5N R17E Section 26 Town of Eagle	-3 (75)	Adjust boundaries
Elm Grove Road Pond	Waukesha County T7N R20E Section 25 Village of Elm Grove	+1 (7)	Expand to included more wooded buffer

Table 22 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Fox River (Wanaki) Woods	Waukesha County T8N R20E Section 31 Village of Menomonee Falls	+12 (22)	Adjust boundaries
Genesee Lake Road Tamaracks	Waukesha County T7N R17E Section 29 Town of Summit	+1 (110)	Loss on west boundary
Heritage Woods	Waukesha County T8N R20E Section 13 Village of Menomonee Falls	+16 (12)	Expand north to include more wooded area
Holtz Oak Opening	Waukesha County T5N R17E Sections 12, 13 Town of Eagle T5N R18E Sections 7, 18 Town of Mukwonago	-6 (94)	Adjust boundaries
Kostello Property	Waukesha County T6N R20E Section 10 City of New Berlin	-1 (12)	Adjust boundaries
Lurvey Tamaracks	Waukesha County T6N R17E Section 15 Town of Ottawa	-9 (188)	Some losses to farm activities; combine with contiguous Critical Species Habitat area, "Unnamed Low Woods—Thicket"
Massaro Woods	Waukesha County T7N R17E Section 13 Town of Summit	-6 (12)	Adjust boundaries
Meadowbrook Prairie	Waukesha County T7N R19E Section 18 City of Pewaukee	+2 (14)	Adjust boundaries
Mounded Fen	Waukesha County T5N R17E Section 30 Town of Eagle	+2 (16)	Adjust boundaries
Mukwonago Park Oak Opening	Waukesha County T5N R18E Sections 28, 29 Town of Mukwonago	+55 (23)	Adjust boundaries
Nagawicka Lake Wetlands	Waukesha County T7N R18E Sections 8, 9, 16 City of Delafield	+1 (22)	Adjust boundaries
Unnamed Wetand (North Prairie Kettle Deep Marsh)	Waukesha County T6N R18E Section 32 Town of Genesee	-30 (50)	Adjust boundaries
Old World Wisconsin Marsh	Waukesha County T5N R17E Section 21 Town of Eagle	+8 (30)	Expand to include northern wetlands; upgrade to NA-3 status
Paradise Springs Brook (Paradise Creek Prairie)	Waukesha County T5N R17E Section 16 Town of Eagle	+76 (24)	Expand to include restored prairie; upgrade to NA-3 status

Table 22 (continued)

Site Name	Location	Net Change in Mapped Area (acres); Original Area in Parentheses	Notes
Romanowski Fen	Waukesha County T5N R18E Section 15 Town of Mukwonago	+1 (8)	Adjust boundaries
Rozik (Rademan's) Woods	Waukesha County T8N R20E Section 16 Village of Menomone Falls	-8 (30)	Loss to residential development
School Section Lake	Waukesha County T6N R17E Section 17 Town of Ottawa	-2 (12)	Adjust boundaries
Stonebank Tamarack Relict	Waukesha County T8N R17E Section 13 Town of Oconomowoc	+26 (166)	Adjust boundaries
Unnamed Shrub-Grassland	Waukesha County T6N R17E Section 27 Town of Ottawa	+9 (340)	Adjust boundaries
Utica Lake Tamaracks	Waukesha County T6N R17E Section 4 Town of Ottawa	+1 (35)	Adjust boundaries
Vernon Marsh	Waukesha County T5N R18E Sections 11, 12, 13, 14, 23, 24 Town of Mukwonago T5N R19E Sections 5, 6, 7, 8, 18 Town of Vernon	+588 (3,568)	Adjust boundaries; add more wetland

Source: SEWRPC.

Section 7

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

INTRODUCTION

This section is directed at any changes to existing legal mechanisms which may be used to promote the sound protection and management of the remaining natural areas, critical species, and critical species habitats in Southeastern Wisconsin since the publication of the original plan in 1997. The section is organized in three major parts dealing with the Federal, State, and local rules and regulations, respectively, related to the management of species and their habitats. It should be recognized that many of these rules and regulations are interrelated. The first part deals with changes to Federal policies and regulations related to endangered and threatened species and their habitats, nongame species, wetlands, and coastal areas. The second part deals with changes to State policies and regulations related to endangered and threatened species, State-designated natural areas, shoreland and wetland conservancy zoning, water quality certification for wetlands, protection of game and nongame species, and nuisance weed problems. The third part deals with changes to local upland and lowland conservancy zoning, other zoning provisions which may be useful in protecting natural areas and critical species habitats, and subdivision control ordinances.

FEDERAL POLICIES AND REGULATIONS

The Federal policies and regulations related to natural areas, critical species, and critical species habitat include Federal permit programs; establishment of wildlife refuges; promulgation of regulations requiring states and local governments to undertake certain actions; and the provision of grants for studies, wildlife refuges, habitat management, and the implementation of state regulatory programs. Those Federal policies and regulations were described in the original study and, with respect to the protection and management of natural areas, critical species habitats, aquatic habitat, and geological and archaeological sites, remain essentially unchanged. However, recent rulings by the U.S. Supreme Court, concerning the Federal Clean Water Act may affect the jurisdiction of the Federal government concerning natural areas, critical species habitats, and aquatic habitats that include wetlands and surface waters. In addition, certain Federal grants and technical services have been made available since the publishing of the original study report that may be used to help manage the Region's natural areas and critical species habitats. The recent U.S. Supreme Court rulings and Federal grant and technical services are briefly discussed below:

The Federal Water Pollution Control Act of 1972 (1977 Amendments): The Federal Water Pollution Control Act of 1972, as amended in 1977, is commonly known as the Clean Water Act. The object of this Act is to restore and

maintain the chemical, physical, and biological integrity of the Nation's waters. Further, the Act declares that it is the policy of the Congress to recognize, preserve, and protect the primary responsibilities and rights of the States to prevent, reduce, and eliminate pollution, to plan the development and use (including restoration, preservation, and enhancement) of land and water resources, and to consult with the Administrator of the U.S. Environmental Protection Agency (EPA) regarding the exercise of his/her authority under the Act.

Under Section 404 of the Act, the Secretary of the Army, acting through the Chief of Engineers, may issue permits, after notice and opportunity for public hearings, for the discharge of dredged or fill material into navigable waters at specified disposal sites. The Administrator of the EPA is authorized to prohibit the specification of any defined area as a disposal site if it is determined after notice and opportunity for public hearings that the discharge of such materials will have unacceptable adverse effects on municipal water supplies, shellfish beds, and fishery areas which include spawning and breeding areas, wildlife habitat, or recreation areas. Moreover, under Section 401, any applicant for a Federal license or permit to conduct any activity including, but not limited to, any discharge into navigable waters is required to provide the licensing or permitting agency with certification from the state in which the discharge will take place. If the state determines that such discharge will affect the quality of its waters so as to violate any water quality requirement of the state and if permit conditions cannot ensure compliance, the licensing or permitting agency shall not issue such license or permit.





Since the publication of the original plan, two significant U.S. Supreme Court decisions have altered the jurisdictional authority of the U.S. Department of the Army, Corps of Engineers (the Corps) in implementing the Section 404 permit program under the Clean Water Act. On January 9, 2001, the U.S. Supreme Court issued a decision in the Solid Waste Agency of Northern Cook County [Illinois] vs. United States Army Corps of Engineers case. Known as the SWANCC decision (531 U.S. 159 [2001]), the Court held that the Corps authority under the Clean Water Act did not extend to isolated wetlands if they are not "adjacent" to navigable waters. Revised rules were accordingly promulgated by the Corps (33 USC 1344(f)). About five years later, on June 19, 2006, the U.S. Supreme Court case findings in Rapanos vs. United States (547 U.S. 715 [2006]) in effect ordered the Corps to establish a clear "nexus" with respect to Federal permitting concerns regarding the protection of navigable "waters of the United States" and specific lands to be protected. The net effect of these rulings was to remove from Federal jurisdiction isolated wetlands and those surface waters and their related wetlands that do not possess a clear nexus to inter-state navigable waters. Accordingly, the level of protection for natural areas, critical species habitats, and aquatic habitats under the Clean Water Act are limited to "connected" wetlands which meet the Courts "nexus" criteria.

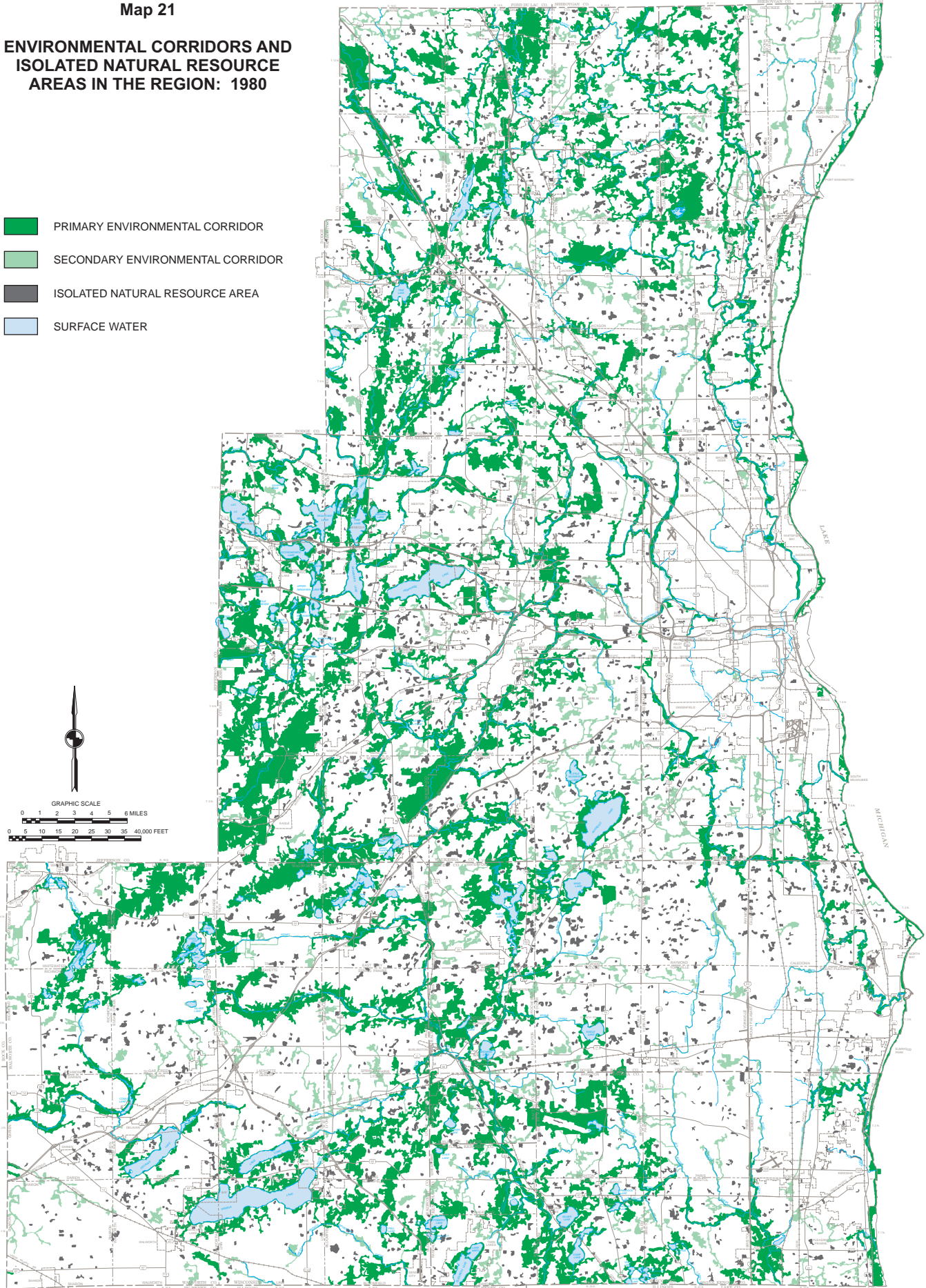
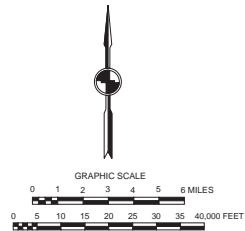
Another element of the Clean Water Act having merit in the context of a natural area and critical species habitat protection and management plan, are the Section 404(b)(1) Guidelines. Under the Section 404(b)(1) Guidelines, the Corps and U.S. Environmental Protection Agency, working in coordination with 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 Southeastern Wisconsin, ADID wetlands were determined 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 this Commission. 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 (U.S. Army Corps of Engineers, St. Paul District / U.S. Environmental Protection Agency, Region 5 Public Notice dated November 6, 1985). Map 21 shows the 1980 primary environmental corridors.

Proposals to discharge any dredge or fill materials into these wetlands and other waters require adherence to the Section 404(b)(1) Guidelines. Under the Guidelines (the Guidelines are listed in 40 CFR Part 230) 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, within the context of the Rapanos vs. United States decision, set forth in 230.10(b) No discharge of dredge or fill material shall be permitted.

Map 21

**ENVIRONMENTAL CORRIDORS AND
ISOLATED NATURAL RESOURCE
AREAS IN THE REGION: 1980**

-  PRIMARY ENVIRONMENTAL CORRIDOR
-  SECONDARY ENVIRONMENTAL CORRIDOR
-  ISOLATED NATURAL RESOURCE AREA
-  SURFACE WATER



The Wildlife Habitat Incentives Program (WHIP): The WHIP is authorized under the Farm Security and Rural Investment Act of 2002, also known as the Farm Bill. WHIP is a voluntary program that promotes the establishment of high quality wildlife habitats which, in turn, support wildlife populations of National, State, Tribal, and local significance. The program works through the U.S. Department of Agriculture's Natural Resources Conservation Service (NRCS) by providing technical and financial assistance to landowners; conservation districts; and Federal, State, and Tribal agencies to develop wildlife habitat on their property. Much of the program effort has concentrated on improving upland habitats, such as native prairie. However, there is an increasing effort on improving habitat in riparian zones and aquatic areas. Emphasis of the program is on eligible lands that 1) provide habitat for those wildlife species experiencing declining or significantly reduced populations; 2) habitat management practices beneficial to fish and wildlife that may not otherwise be funded; and 3) wildlife and fishery habitats identified by State, Tribal, and local "partners" in each State. Accordingly, this program may be used to assist in the management of natural areas and critical species habitats.

Concluding Remarks—Federal Policies and Regulations

Certain sections and subsections of other Federal laws may affect the protection and management of natural areas and critical species habitats located within Southeastern Wisconsin. However, the sections and subsections described in this plan amendment and the original plan are related to making grants available for studies and land acquisitions, extend or increase such grants under the Federal laws specifically discussed above, or require coordination between agencies. Presently, the ADID wetland and related waters in and adjacent to navigable interstate waters provide the only Federal regulatory mechanism which may be used to protect wetland natural areas, critical species habitats, and related aquatic habitats.

In summary, the 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.

STATE POLICIES AND REGULATIONS

The State of Wisconsin's policies and regulations related to natural areas, critical species, and critical species habitats generally involve State permit and approval programs, acquisition and management of natural areas and wildlife refuges, and State-mandated local zoning for floodland, shoreland, and wetland areas. These State policies and regulations were discussed in the original study and remain largely unchanged. However, with respect to wetlands, existing State laws have been amended which extend State protections to wetland natural areas, critical species habitats, and their related aquatic habitats.

2001 Wisconsin Act 6

Wisconsin's Act 6 was adopted on May 7, 2001, during a special session of the Wisconsin Legislature. It was a direct response to the SWANCC decision limiting Federal authority over isolated wetlands, and subsequently any wetland jurisdiction determined not to be covered by Section 404 of the Clean Water Act. Specifically, the Act amended Chapters 23, Public Lands and Conservation; 281 Water and Sewage; and 299 Enforcement; duty of justice; expenses to enable the Wisconsin Department of Natural Resources to enforce the same rules and regulations concerning wetlands that were in place and so managed by the Corps and U.S. EPA prior to the SWANCC decision. However, rather than a permitting program, the State of Wisconsin amended its water quality certification procedure to require such certification for all "nonfederal wetlands" (Chapter 281.36 Water quality certification for nonfederal wetlands.). With respect to aquatic habitats, navigable waters of the State of Wisconsin are held in Public Trust and are accordingly regulated as before under Chapter 30 Navigable Waters, Harbors and Navigation of the *State Statutes*.

Wisconsin Natural Areas Heritage Program

The Wisconsin Natural Areas Heritage Program is intended to encourage "... private contributions and land dedications under the Wisconsin natural areas heritage program". The rules, conditions, and specifications of this program are set forth under Section 23.29 of the *Wisconsin Statutes*. Of specific interest to the regional natural areas program, is the requirement that all or partial interest of non-state owned lands dedicated to the State under this program must "...be held in trust for the people [of the State of Wisconsin] by the department". Such dedication is exercised under an agreed upon and State approved Articles of Dedication instrument. The program also requires provisions for the appropriate stewardship and access for lands dedicated under this program.

Conservation Easements

A conservation easement is defined as a legal agreement under which a landowner conveys a certain set of rights associated with the ownership of their property to a unit of government or a qualified nonprofit organization. The conservation easement sets forth a set of restrictions that limit how the landowner and others may utilize a property. The purposes and conditions under which conservation easements may be used and established are set forth in Section 700.40 of the *Wisconsin Statutes*. Conservation easements may be "...unlimited in duration ..." unless modified or terminated by the court.

In a response to a request by the Commission staff for any information concerning specific conservation easements and Regional natural areas and critical species habitat areas, Gathering Waters Conservancy, a statewide land conservancy organization, replied that it was initiating such a comprehensive listing, but at this time no such information was readily available.

It should be noted that various conservancy organizations, including the Waukesha Land Conservancy, the Ozaukee Washington Land Trust, and The Nature Conservancy, were queried by the Commission staff concerning any conservation easements they had over natural areas and critical species habitat areas in the plan amendment. At the time of publication, no information had been received by the Commission.

Concluding Remarks—State Policies and Regulations

In summary, the 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 for use on 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.

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 special concern, threatened, or endangered species and their critical habitats, as well as the presence of high-quality natural areas within the State's wetlands and 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 and to private, nonprofit conservation organizations to locate, evaluate, acquire, protect, and manage important natural areas and critical species habitats in Southeastern Wisconsin.

LOCAL POLICIES AND REGULATIONS

Local policies and regulations related to natural areas, critical species, and critical species habitats generally involve State-mandated local zoning for shoreland and wetland areas, subdivision control ordinances, local zoning for conservation and other environmentally significant areas, and the acquisition and management of parks, parkways, and other similar open space lands. These local zoning and acquisition policies and programs were also discussed in the original study and remain largely unchanged.

Local units of government are empowered to acquire natural areas. Matching funds are available from the State for those local units and agencies of government inclined to acquire natural areas, critical species habitats, and geological and archaeological sites. Such habitats and sites, once acquired, can then be properly protected and managed.

Local zoning for natural areas and critical species habitats located in wetlands, particularly shoreland wetlands, can be effective. The oversight of the Wisconsin Department of Natural Resources concerning shoreland wetlands under Chapters NR 115 and NR 117 of the *Wisconsin Administrative Code*, combined with the implementation of Chapter NR 103 of the *Code*, may be used to avoid the loss of significant wetland natural areas and critical species habitats. However, upland natural area and critical species habitat protection is largely lacking. While several zoning districts and subdivision control ordinances are available to help protect such areas, the local units of government involved—county, town, city, and village—must be inclined to enact and apply such regulations. Zoning is only as good as the local unit of government’s commitment to maintaining and enforcing it. In Southeastern Wisconsin, some communities are strongly committed to the preservation of their resources; other communities lack any level of concern. The most effective way to protect natural areas and critical species habitats is to purchase them in fee simple. Once a natural area is under protective ownership, it can then be properly managed to protect and enhance the resource features for which the area became designated.

Section 8

RECOMMENDED CHANGES TO THE REGIONAL NATURAL AREAS AND CRITICAL SPECIES HABITAT PLAN

INTRODUCTION

Chapter VIII of SEWRPC Planning Report No. 42, *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin*, set forth a recommended natural areas and critical species habitat area protection and management plan for the southeastern Wisconsin Region. The plan was designed with two basic objectives in mind: 1) maintaining the integrity of the remaining biodiversity of the Region; and 2) preserving and protecting the remaining significant geological and archaeological sites of the Region. Since preparation of Planning Report No. 42, new information relating to recommended protection of natural sites has been acquired, which, in addition to the newly identified sites, requires a revision of the protection recommendations.

RECOMMENDED CHANGES TO ORIGINAL PLAN PROPOSALS

The protective ownership proposals recommended in the original plan were based on the best information available at that time to the Commission staff. Since then, the staff of the Wisconsin Department of Natural Resources has reviewed the Commission's recommended Department acquisitions and has proposed modifications to the original plan (Table 23). Accordingly, this chapter outlines the recommended plan changes to SEWRPC Planning Report No. 42. Specifically, plan changes originally recommending Department of Natural Resources protective ownership involve one natural area of statewide significance (NA-1); five natural areas of regional or countywide significance (NA-2); and five natural areas of local significance (NA-3). The proposed protective ownership of two critical species habitat areas (CSH), two sites recommended for forest interior habitat enhancement, and one site combining these two classifications is to be changed. In addition, seven geological areas of statewide significance (GA-1), one geological area of local significance (GA-3), and one geological area of GA-1 status that is also a critical species habitat site are recommended to be changed from Department of Natural Resources ownership to various other types of protective ownership. Eight of these sites are located in Waukesha County, five in Washington County, four each in Walworth and Milwaukee Counties, three in Ozaukee County, and one in Racine County.

Table 23

**RECOMMENDED CHANGES TO PROTECTIVE OWNERSHIP PROPOSALS
PRESENTED IN SEWRPC PLANNING REPORT NUMBER 42**

County	Site Name	Classification Code ^a	Recommended Protective Ownership	
			In Planning Report 42	Revised
Milwaukee	Stadium Bluff Woods and Soldiers Home Reef	CSH GA-1	Wisconsin Department of Natural Resources	U.S. Veteran's Administration
Milwaukee	Schoonmaker Reef	GA-1	Wisconsin Department of Natural Resources	University of Wisconsin — Milwaukee or Milwaukee County
Milwaukee	Brown Deer Railroad Cut	GA-1	Wisconsin Department of Natural Resources	University of Wisconsin— Milwaukee or Milwaukee County
Milwaukee	Whitefish Bay Shore Exposure	GA-1	Wisconsin Department of Natural Resources	Village of Whitefish Bay
Ozaukee	South Conifer Swamp	NA-2	Wisconsin Department of Natural Resources	Ozaukee Washington Land Trust
Ozaukee	Max's Bog	NA-2	Wisconsin Department of Natural Resources	Ozaukee Washington Land Trust
Ozaukee	Five Corners Swamp	NA-3	Wisconsin Department of Natural Resources	Town of Cedarburg or private conservancy organization
Racine	Margis Wildlife Area	CSH	Wisconsin Department of Natural Resources	Racine County
Walworth	Lake Lawn Wetland Complex	NA-3	Wisconsin Department of Natural Resources	Delavan Lake Sanitary District
Walworth	Lake Geneva Tamarack Relict	NA-3	Wisconsin Department of Natural Resources	Town of Lyons or private conservancy organization
Walworth	Lake No. 10 Open Woods	CSH	Wisconsin Department of Natural Resources	Walworth County
Walworth	White River Railroad Prairie	CSH	None	Walworth County
Walworth	Moraine Triple Point	GA-3	Wisconsin Department of Natural Resources	Walworth County
Washington	Kleinman Swamp	NA-3	Wisconsin Department of Natural Resources	Village of Germantown
Washington	Wildwood Hardwood Swamp	NA-3	Wisconsin Department of Natural Resources	Town of Barton or private conservancy organization
Washington	St. Anthony Maple Woods	CSH and Forest Interior	Wisconsin Department of Natural Resources	Town of Addison or private conservancy organization
Washington	Shady Lane Woods	Forest Interior	Wisconsin Department of Natural Resources	Ozaukee Washington Land Trust and Town of Trenton
Waukesha	Nagawicka Lake Bog and Oak Woods	NA-2	Wisconsin Department of Natural Resources	Local municipality or private conservancy organization
Waukesha	Lake Keesus Fen Meadow	NA-2	Wisconsin Department of Natural Resources	Town of Merton or private conservancy organization
Waukesha	Henrietta Lake Bog	NA-2	Wisconsin Department of Natural Resources	University of Wisconsin— Waukesha
Waukesha	Parker Drive Woods	Forest Interior	Wisconsin Department of Natural Resources	City of Muskego or private conservancy organization
Waukesha	Scuppernong Creek Spillway	GA-1	Wisconsin Department of Natural Resources	Town of Genesee and Town of Delafield
Waukesha	Sussex Lime Kiln	GA-1	Wisconsin Department of Natural Resources	Village of Sussex
Waukesha	Jones Quarry Site	GA-1	Wisconsin Department of Natural Resources	Waukesha County or Lake District
Waukesha	Johnston Quarry and Kilns	GA-1	Wisconsin Department of Natural Resources	Town of Genesee

^a NA-1 refers to those natural areas of statewide significance

NA-2 refers to those natural areas of regional or countywide significance

NA-3 refers to those natural areas of local significance

GA-1 refers to those geological sites of statewide significance

GA-2 refers to those geological sites of regional or countywide significance

GA-3 refers to those geological sites of local significance

CSH refers to a critical species habitat area

Forest Interior refers to those woodlands proposed to be managed to enhance forest interior habitat

Source: Wisconsin Department of Natural Resources and SEWRPC.

RECOMMENDED PROTECTIVE OWNERSHIP OF NEWLY IDENTIFIED SITES

The original plan recommended that each of the sites identified in the inventory be protected and preserved to the maximum extent practicable as urban and rural development in the Region proceeds. The plan recommended the following priorities for public-interest acquisitions, given existing constraints on the financial resources of the public and private agencies responsible for such acquisition:

- The highest acquisition priority is recommended to be accorded to natural area sites of statewide or greater significance (NA-1 sites). No new NA-1 sites were identified for the updated plan. However, one NA-2 quality site—Huiras Lake Woods—in Ozaukee County listed in the original plan has been upgraded to NA-1 status based upon additional fieldwork.
- The second-highest acquisition priority is recommended to be accorded to those natural areas of countywide or regional significance (NA-2 sites) and those natural areas of local significance (NA-3 sites) which lie within Commission-delineated primary environmental corridors; which support endangered, threatened, or special concern plant or animal species; or which have already been at least partly placed under public or private protective ownership or conservation easement.
- The third-highest acquisition priority is recommended to be accorded to those critical species habitat sites which are located wholly or partly outside a designated natural area, but which either are located within a Commission-delineated primary environmental corridor or are already at least partly under public or private protective ownership or conservation easement.

It is recommended that the single newly identified geological area—the West Bend Kames—be protected as a scenic easement, to be held by an appropriate private conservation organization, such as the Ozaukee Washington Land Trust.



The above photograph shows one of the West Bend Kames. A kame is a small hill or mound of stratified drift material or sediment deposited into a crevasse by a stream flowing along the top of a glacier. As Wisconsin's glaciers retreated about 10,000 years ago, these small glacial hills remained on the landscape. Some of the best remaining examples of these glacial features occur in the southeastern Wisconsin region.

Source: SEWRPC.

Table 24

**RECOMMENDED PROTECTIVE OWNERSHIP OF NEWLY IDENTIFIED NATURAL
AREA SITES IN SOUTHEASTERN WISCONSIN THAT ARE NOT CURRENTLY COMPLETELY PROTECTED**

Site Name	Location	Proposed Classification Code	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Center Lake Woods and Wetlands	Kenosha County T1N R20E Sections 21, 22 Town of Salem	NA-3	Town of Salem	61	11	72
Silver Lake Wetlands	Kenosha County T1N R20E Section 8 Town of Salem	NA-3	Private conservancy organization	0	101	101
Adams Prairie	Milwaukee County T5N R21E Section 32 City of Franklin	NA-2	Milwaukee Metropolitan Sewerage District	0	37	37
Convent Woods	Milwaukee County T8N, R21E Section 10 City of Milwaukee	NA-3	Private conservancy organization	0	9	9
Ryan Road Woods	Milwaukee County T5N, R22E Section 29 City of Oak Creek	NA-3	Milwaukee County	19	23	42
West Branch Root River Woods	Milwaukee County T6N R21E Section 7 City of West Allis	NA-3	--	0	0	12
Hoods Creek Woods	Racine County T3N R22E Section 3 Village of Mt. Pleasant	NA-3	Village of Mt. Pleasant	9	63	72
East Troy Bog	Walworth County T4N R18E Sections 7, 18 Town of East Troy	NA-3	Lake Beulah Management District	0	6	6
Oak Hill Cemetery Woods	Walworth County T2N R17E Section 25 Town of Geneva	NA-3	Private conservancy organization	0	138	138
Voskuil Dry Prairie	Walworth County T2N R15E Section 1 Town of Darien	NA-2	Town of Darien	0	7	7
Amy Bell Lake Bog	Washington County T9N R19E Section 25 Town of Richfield	NA-3	Private conservancy organization	0	5	5
Kohlsville River Upland Woods and Wetlands	Washington County T11N R19E Section 7 Town of Barton	NA-3	Private conservancy organization	0	100	100
Little Oconomowoc River Woods and Wetlands	Washington County T9N R18E Section 33 Town of Erin	NA-3	Washington County	20	206	226

Table 24 (continued)

Site Name	Location	Proposed Classification Code	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Colgate Road Swamp and Woods	Waukesha County T8N R19E Section 2 Town of Lisbon	NA-3	Private conservancy organization	0	170	170
Dousman Road Fen-Meadow	Waukesha County T7N R17E Section 33 Town of Summit	NA-3	Private conservancy organization	0	3	3
Golf Cliff Ridge and Woods	Waukesha County T7N R18E Section 23 Town of Delafield	NA-3	Private conservancy organization	0	8	8
Pebble Creek Woods—North	Waukesha County T6N R19E Section 22 Town of Waukesha	NA-3	Private conservancy organization	0	9	9
Pebble Creek Woods—South	Waukesha County T6N R19E Section 22 Town of Waukesha	NA-3	Private conservancy organization	0	15	15
Prairie Wind Farms Woods	Waukesha County T7N R18E Section 2 Town of Delafield	NA-3	Private conservancy organization	0	22	22
Pretty Lake Tamarack Relict	Waukesha County T6N R17E Sections 21, 28 Town of Ottawa	NA-3	Wisconsin Department of Natural Resources	0	84	84
Reinke Sedge Fen	Waukesha County T5N R19E Section 26 Town of Vernon	NA-3	Private conservancy organization	0	18	18
Ryan Road Swamp	Waukesha County T5N R20E Section 24 City of Muskego	NA-3	Private conservancy organization	0	45	45

Source: SEWRPC.

A total of 22 natural areas have been identified since preparation of SEWRPC Planning Report No. 42 that are not currently under protective ownership (Table 24). This includes two sites of NA-2 quality and 20 of NA-3 quality. Fourteen of the 22 sites lie entirely within Commission-delineated primary environmental corridors, and the remaining eight are located entirely outside of such corridors.

A total of 80 critical species habitat area sites have been identified since preparation of SEWRPC Planning Report No. 42 that are not currently under protective ownership (Table 25). Thirty-four of the 80 sites lie entirely within Commission-delin-eated primary environ-mental corridors, and 46 are located entirely outside of such corridors.

Table 25

**RECOMMENDED PROTECTIVE OWNERSHIP OF NEWLY IDENTIFIED CRITICAL SPECIES
HABITAT SITES IN SOUTHEASTERN WISCONSIN THAT ARE NOT CURRENTLY COMPLETELY PROTECTED**

Site Name	Location	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Bain Station Low Prairie—East	Kenosha County T1N R22E Section 9 Village of Pleasant Prairie	--	0	0	23
Berryville Woods	Kenosha County T2N R23E Section 5 Town of Somers	--	0	0	3
Bourque Low Prairie	Kenosha County T1N R23E Section 31 Village of Pleasant Prairie	--	0	0	4
Carol Beach Oak Woods	Kenosha County T1N R23E Section 31 Village of Pleasant Prairie	Private conservancy organization	0	3	3
Carol Beach Parcel No. 2	Kenosha County T1N R23E Section 29 Village of Pleasant Prairie	Wisconsin Department of Natural Resources	0	2	2
Fox River Park Low Woods and Sedge Meadow	Kenosha County T1N R20E Section 19 Town of Salem	Kenosha County	1	43	44
Janice Prairie	Kenosha County T1N, R23E Section 19 Village of Pleasant Prairie	--	0	0	3
Kotrba Wetland	Kenosha County T1N R19E Section 12 Town of Wheatland	Private conservancy organization	0	15	15
Louvain Old Field	Kenosha County T1N R21E Section 9 Town of Bristol	Private conservancy organization	0	1	1
Poerio Park Woods	Kenosha County T2N R23E Section 18 City of Kenosha	City of Kenosha	15	1	16
Rock Lake Woods	Kenosha County T1N R20E Section 34 Town of Salem	--	0	0	8
Wilmot Stream Woodland	Kenosha County T1N R19E Section 25 Town of Randall	Wilmot High School	0	8	8
35 th Street Woods	Milwaukee County T5N R21E Section 12 City of Franklin	--	0	0	14
Cold Spring Road Thicket	Milwaukee County T6N R21E Section 19 City of Greenfield	--	0	0	2

Table 25 (continued)

Site Name	Location	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Greentree Road Woods	Milwaukee County T8N R21E Section 23 City of Milwaukee	--	0	0	5
Howell Avenue Woods	Milwaukee County T5N R22E Section 21 City of Oak Creek	--	0	0	21
Industrial Park Mesic Woods	Milwaukee County T5N R22E Section 8 City of Oak Creek	--	0	0	5
Loomis Road Woods	Milwaukee County T5N R21E Section 9 City of Franklin	--	0	0	13
Puetz Road Woods	Milwaukee County T5N R22E Section 19 City of Oak Creek	Private conservancy organization	0	22	22
Russell Avenue Woods	Milwaukee County T5N R21E Section 2 City of Franklin	--	0	0	9
Schmidt/Johnson Woods	Milwaukee County T5N R22E Section 23 City of Oak Creek	--	0	0	6
Shooting Star Prairie and Shrubland	Milwaukee County T5N R21E Section 20 City of Franklin	Milwaukee Area Land Conservancy	15	3	18
Truck Stop Woods	Milwaukee County T5N R22E Section 30 City of Oak Creek	--	0	0	11
West Granville Mesic Woods	Milwaukee County T8N R21E Section 17 City of Milwaukee	--	0	0	8
Garvey Woods	Ozaukee County T9N R21E Section 27 City of Mequon	--	0	0	10
Heinen Woods	Ozaukee County T12N R21E Section 26 Town of Fredonia	Private conservancy organization	0	32	32
Meekwon Park Woods	Ozaukee County T9N R21E Section 10 City of Mequon	City of Mequon	20	20	40
Port Washington Beach and Dunes	Ozaukee County T11N R22E Sections 1, 11 Town of Port Washington	Private conservancy organization	0	29	29
Port Washington Clay Banks	Ozaukee County T10N R22E Sections 3, 10 Town of Grafton	Private conservancy organization	0	35	35

Table 25 (continued)

Site Name	Location	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Union Pacific Right-of-Way	Ozaukee County T9N R22E Section 5 City of Mequon	--	0	0	1
Woodland Meadows Woods	Ozaukee County T10N R21E Section 17 Town of Cedarburg	Private conservancy organization	0	40	40
Caledonia Low Woods—South	Racine County T4N R23E Section 30 Village of Caledonia	Private conservancy organization	0	30	30
Mt. Tom Woods	Racine County T2N R19E Section 1 Town of Burlington Kenosha County T2N R20E Sections 6, 7 Town of Brighton	Town of Burlington	3	21	24
STH 38/CTH K	Racine County T4N R22E Section 35 Village of Caledonia	Private conservancy organization	0	4	4
Willow Woods	Racine County T3N R22E Section 36 Village of Mt. Pleasant	--	0	0	4
Wind Point Ravine Woods	Racine County T4N, R23E Sections 21, 22, 27 Village of Wind Point and Village of Caledonia	Private conservancy organization	0	14	14
Anderson Bog	Walworth County T4N R18E Section 10 Town of East Troy	Private conservancy organization	0	1	1
Bennett Dry Prairie	Walworth County T4N R16E Section 6 Town of LaGrange	--	0	0	3
Darien Railroad Prairie Remnant	Walworth County T2N R15E Sections 28, 33 Town of Darien	--	0	0	1
Eastwood Estates Woods	Walworth County T4N R18E Section 11 Town of East Troy	--	0	0	5
Horn Dry Prairie	Walworth County T4N R17E Section 1 Town of Troy	Private conservancy organization	0	5	5
Juniper Knoll Camp Woods	Walworth County T4N R16E Section 24 Town of LaGrange	Private conservancy organization	0	98	98

Table 25 (continued)

Site Name	Location	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Lyons Woods	Walworth County T1N R17E Section 18 Village of Fontana	Private conservancy organization	0	35	35
Roden Oak Woods	Walworth County T2N R18E Section 13 Town of Lyons	Private conservancy organization	0	41	41
Chinkapin Oak Woods	Washington County T10N R20E Section 29 Town of Jackson	--	0	0	11
Friedens Creek Woods	Washington County T10N R20E Section 7 Town of Jackson	--	0	0	12
Gilbert Lake Upland Woodland	Washington County T11N R19E Section 17 Town of West Bend	Private conservancy organization	0	85	85
Lamm Woods	Washington County T10N R20E Section 19 Town of Jackson	--	0	0	20
Nabob Upland Woods	Washington County T11N R18E Section 24 Town of Addison	--	0	0	75
STH 28 Woodland	Washington County T12N R20E Section 17 Town of Farmington	Private conservancy organization	0	12	12
Wheaton Woods	Washington County T9N R20E Section 20 Village of Germantown	Private conservancy organization	0	13	13
Willow Creek Swamp	Washington County T9N R20E Section 31 Village of Germantown	Private conservancy organization	0	62	62
Brookfield Oak Woods	Waukesha County T7N R20E Section 20 City of Brookfield	--	0	0	4
Campground Woods	Waukesha County T8N R20E Sections 7, 18 Village of Menomonee Falls	Waukesha County	64	52	116
CTH M Shrubland	Waukesha County T7N R19E Section 24 City of Pewaukee	Private conservancy organization	0	41	41
Davies Marlow Grassland	Waukesha County T6N, R18E Section 2 Town of Genesee	Waukesha County	0	62	62

Table 25 (continued)

Site Name	Location	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Dragon Fen	Waukesha County T6N R18E Section 3 Town of Genesee	Private conservancy organization	0	1	1
Greenwald Woods	Waukesha County T5N R18E Section 23 Town of Mukwonago	Wisconsin Department of Natural Resources	55	3	58
Grush Road Dry Prairie	Waukesha County T6N R18E Section 29 Town of Genesee	--	0	0	4
Janesville Road Woods	Waukesha County T5N R20E Section 10 City of Muskego	--	0	0	2
Jericho Creek Oak Woods	Waukesha County T5N, R17E Section 24 Town of Eagle	Private conservancy organization	0	69	69
Jungbluth Road Railroad Prairie	Waukesha County T7N R18E Section 1 Town of Delafield	Waukesha County	1	1	2
Kinsey Park Woods	Waukesha County T7N R20E Section 36 City of Brookfield	City of Brookfield	5	2	7
Koller Farms Kittentails Site	Waukesha County T6N, R17E Section 13 Town of Ottawa	--	0	0	1
Lunt-Fontanne Dry Prairie	Waukesha County T6N R18E Section 21 Town of Genesee	Town of Genesee	6	14	20
Mill Brook Fen	Waukesha County T5N R19E Section 10 Town of Vernon	Private conservancy organization	0	13	13
Nature Road Oak Woodland	Waukesha County T5N R17E Section 34 Town of Eagle	The Nature Conservancy	0	44	44
North Lake Low Woods	Waukesha County T8N R18E Section 16 Town of Merton	Private conservancy organization	0	38	38
North Prairie Dry Prairie	Waukesha County T6N R18E Section 31 Town of Genesee	--	0	0	1
Old Muskego Settlement Woods	Waukesha County T5N R20E Section 16 City of Muskego	City of Muskego	13	5	18
Pogodzinski Kittentails Site	Waukesha County T6N, R17E Section 11 Town of Ottawa	--	0	0	1

Table 25 (continued)

Site Name	Location	Proposed Acquisition Agency	Area (acres) Already Under Protective Ownership	Area (acres) Proposed To Be Acquired	Total Site Area (acres)
Roberts Oak Opening	Waukesha County T6N R18E Section 9 Town of Genesee	--	0	0	4
Schkeryantz Woods	Waukesha County T6N R20E Section 24 City of New Berlin	--	0	0	6
Schanke Property	Waukesha County T6N R18E Section 17 Town of Genesee	--	0	0	32
Schroeder Woods	Waukesha County T5N R20E Sections 5, 6 City of Muskego	Private conservancy organization	0	35	35
Spring Valley Woods	Waukesha County T6N R20E Section 32 City of New Berlin	Private conservancy organization	10	4	14
Steinacker Woods	Waukesha County T7N, R20E Section 5 City of Brookfield	City of Brookfield	55	106	161
Stephenson Shrubby Fen	Waukesha County T6N R17E Section 11 Town of Ottawa	Private conservancy organization	0	27	27
Stigler Woods	Waukesha County T6N R20E Section 9 City of New Berlin	City of New Berlin	44	9	53
Stonegate Dry Prairie	Waukesha County T5N, R18E Section 15 Town of Mukwonago	--	0	0	3
Swan Farms Woods	Waukesha County T7N R19E Sections 2, 11 City of Pewaukee	Private conservancy organization	0	71	71
Swartz Woods	Waukesha County T6N R20E Section 19 City of New Berlin	--	0	0	36
Taylor Road Woods	Waukesha County T7N R18E Section 12 Town of Delafield	Private conservancy organization	0	30	30
Thorndell Avenue Woods	Waukesha County T8N R20E Section 14 Village of Menomonee Falls	Private conservancy organization	0	16	16
Underwood Creek Woods	Waukesha County T7N R20E Section 24 Village of Elm Grove	Village of Elm Grove	0	22	22

Source: SEWRPC.



The distinctive light yellow to orange yellow side stripes of Butler's gartersnake usually occur on the third scale row and the adjacent halves of scale rows two and four. Its head is much smaller than the other Wisconsin garter-snake species. But, it has a thicker neck. Earthworms and slugs form a major part of the Butler's gartersnake diet.

Source: Wisconsin Department of Natural Resources.



The above photograph was taken at a Tier 3 Butler's gartersnake habitat site located in Milwaukee County. Protection and proper management of a suitable number of Tier 3 sites is critical to the long term conservation of this State of Wisconsin designated threatened animal species. Butler's gartersnake prefers open wetlands adjacent to open to semi-open canopy grasslands, old fields, and weedy vacant lots. Good quality habitat sites 20 to 30 acres in size and all suitable habitats greater than 30 acres in size qualify as Tier 3 habitats.

Source: Rori Paloski, Wisconsin Department of Natural Resources.

BUTLER'S GARTERSNAKE

As noted in Section 5, the Butler's Gartersnake has been identified as a State of Wisconsin threatened reptile species. Due to the controversial nature of protecting this species and the preparation of a population and habitat viability assessment by the State, combined with Butler's Gartersnake appearance as a Great Lakes endemic species with a genetically distinct, isolated population restricted to southeastern Wisconsin (see Map 22), specific critical species habitat protection and management recommendations under this plan are in order. Accordingly, 199 Tier 3 habitat sites, totaling 21,752 acres, for Butler's Gartersnake have been identified in southeastern Wisconsin. Of this total acreage, 130 sites totaling approximately 13,024 acres are located within the primary environmental corridor. Tier 3 habitat sites have been identified as having potentially suitable conditions to maintain the long term viability of the Butler's Gartersnake.^{1,2} The Wisconsin Department of Natural Resources has recommended that a minimum of 40 such sites are necessary to ensure the continued existence of a suitable breeding population of this threatened species in Wisconsin. While the exact number of Tier 3 sites that actually support Butler's Gartersnake is currently being investigated, it is recommended that 55 Tier 3 sites—including an additional 15 sites as a safety margin—all located within the primary environmental corridor, be protected and managed to maintain suitable Butler's Gartersnake habitat under the plan. A description of the Butler Gartersnake Tier Classification System is presented in Figure 2.

¹Bureau of Endangered Resources, Wisconsin Department of Natural Resources, March 31, 2005. *Butler's Gartersnake Conservation Plan*.

²Hyde, T.R., R. Paloski, R. Hay, and P. Miller (eds.). 2007. *Population and Habitat Viability Assessment for Butler's Gartersnake (Thamnophis butleri) in Wisconsin: Workshop Report*. IUCN/SSC Conservation Breeding Specialist Group, Apple Valley, MN.

Map 22

BUTLER'S GARTERSNAKE HABITATS

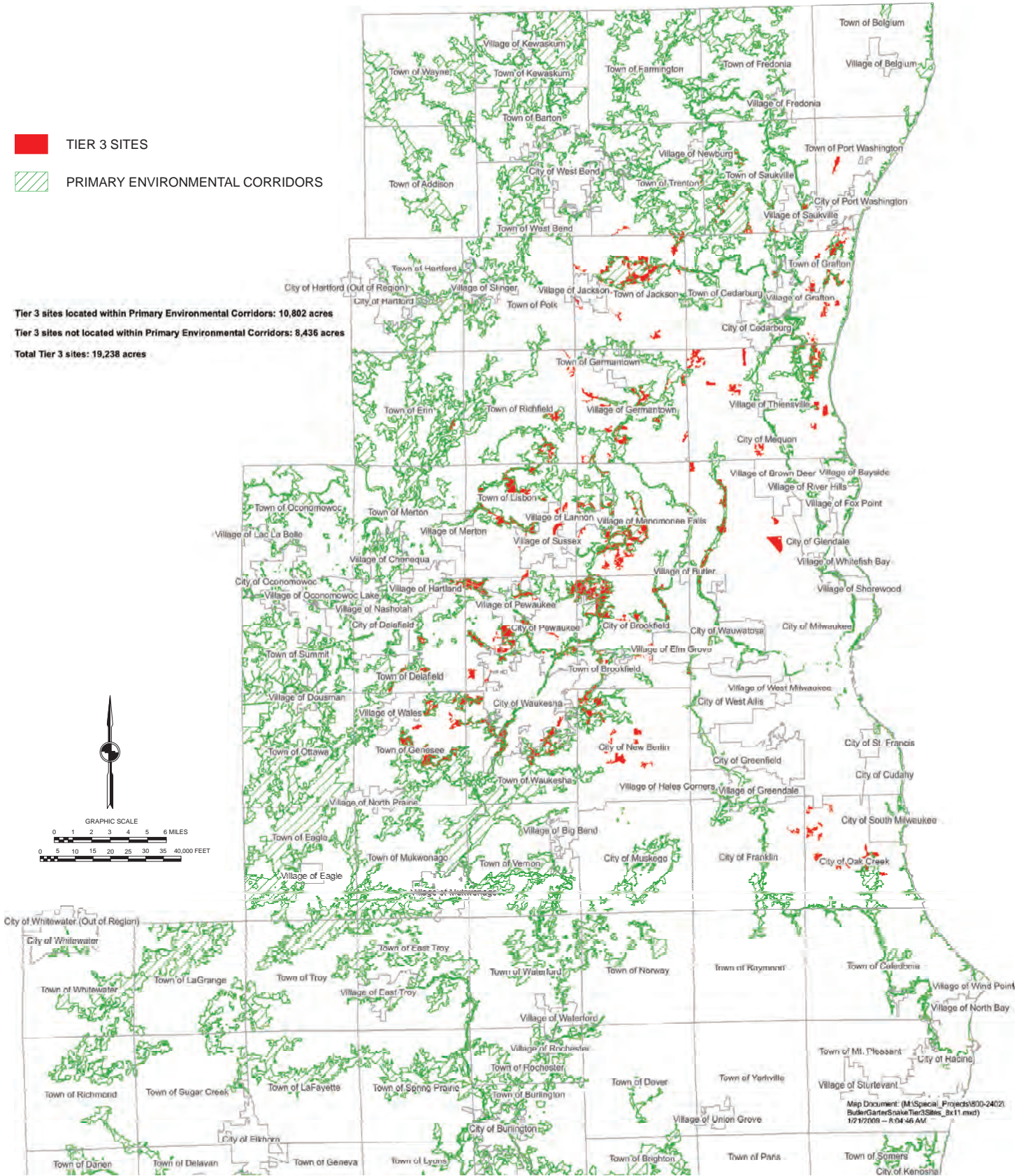
 TIER 3 SITES

 PRIMARY ENVIRONMENTAL CORRIDORS

Tier 3 sites located within Primary Environmental Corridors: 10,802 acres

Tier 3 sites not located within Primary Environmental Corridors: 8,436 acres

Total Tier 3 sites: 19,238 acres



Source: SEWRPC.

Figure 2

SITE CLASSIFICATION SYSTEM AND CONSERVATION MEASURES FOR BUTLER'S GARTERSNAKE CONSERVATION STRATEGY: MARCH 31, 2005

	Site Classification Criteria	Conservation Measures
Tier 1 Minimal Conservation Value	<ul style="list-style-type: none"> ➤ If the total suitable habitat patch is less than 10 acres, regardless of habitat quality, OR ➤ If the total suitable habitat patch is between 10 to 20 acres with poor habitat quality 	<ol style="list-style-type: none"> 1. All existing wetland/water regulation requirements remain in effect. 2. A letter from the Department is required for a project to be covered under the Tier 1 Broad Incidental Take Authorization. 3. Consider voluntary measures to protect snake at proposed site location.
Tier 2 Moderate Conservation Value	<ul style="list-style-type: none"> ➤ If the total suitable habitat patch is between 10 to 20 acres with moderate to good habitat quality, OR ➤ If the total suitable habitat patch is between 20 to 30 acres with poor to moderate habitat quality 	<ol style="list-style-type: none"> 1. The Department has concluded, based on the current science available, that Tier 2 sites do not contribute significantly to the long-term conservation of the Butler's gartersnake. As such, future conservation efforts will focus primarily on Tier 3 sites and the Department has proposed a broad incidental take authorization for Tier 2 sites with the same conservation measures as the Tier 1 authorization. However, until broad incidental take of Tier 2 sites is authorized, any project on a Tier 2 site that results in take will require an individual incidental take authorization with the following conservation measures: <ol style="list-style-type: none"> a. All existing wetland/water regulation requirements remain in effect. b. If project impacts suitable upland habitat of poor quality, protect 75' average width of upland habitat around wetland habitat = <u>Protected Habitat</u>. Snake exclusion fencing must be installed prior to 3/16. If not, moving snakes outside of construction zone likely required. c. If project impacts suitable upland habitat of moderate to good quality, protect 180' average width of upland habitat around wetland habitat = <u>Protected Habitat</u>. Snake exclusion fencing must be installed prior to 3/16, if not, moving snakes outside of construction zone likely required. d. If project impacts suitable wetland habitat, then snake exclusion fencing must be installed prior to construction. Moving snakes outside of construction zone likely required. e. Periodic maintenance of suitable upland habitat required per habitat management guidance. f. A site's Protected Habitat must be protected in perpetuity through deed restriction or other legal document. 2. The Department will encourage and pursue opportunities for restoration of Tier 2 sites to a Tier 3 condition.
Tier 3 Significant Conservation Value	<ul style="list-style-type: none"> ➤ If the total suitable habitat patch is between 20 to 30 acres with good habitat quality ➤ If the total suitable habitat patch is greater than 30 acres regardless of habitat quality 	<ol style="list-style-type: none"> 1. All existing wetland/water regulation requirements remain in effect. 2. For privately-owned sites <i>Measures to avoid incidental take include:</i> <ol style="list-style-type: none"> a. Presence/Absence surveys will be required at all Tier 3 sites where snakes have not already been confirmed. If presence confirmed, the Department reserves the right to conduct a population assessment. b. If project impacts suitable upland habitat of poor quality, protect 120' average width of upland habitat around wetland habitat = <u>Protected Habitat</u>. Snake exclusion fencing must be installed prior to March 16. c. If project impacts suitable upland habitat of moderate to good quality, protect 300' average width of upland habitat around wetland habitat = <u>Protected Habitat</u>. Snake exclusion fencing must be installed prior to March 16. d. Implement the Department's authority to protect a 75' protective area for areas of special natural resources interest (NR 151). e. Within-patch mitigation: the above 120'/300' upland habitat areas can be exchanged for the restoration of unsuitable habitat to appropriate habitat elsewhere within the same habitat patch (see definitions). The habitat exchange should result in "No Net Loss" of overall habitat when restoration is completed. A minimum upland setback of 120' from the wetland habitat and a minimum width of 120' is required to ensure that restored habitat is sufficient to support and protect snakes. The restored habitat that is exchanged must be protected in perpetuity per (g) below. f. Periodic maintenance of suitable upland habitat required per habitat management guidance. g. A site's Protected Habitat must be protected through conservation easement or other legal document. <p><i>If incidental take cannot be avoided, then incidental take authorization is required on a project by project basis with the measures to minimize take to be determined by the Department.</i></p> 3. For publicly-owned sites: Publicly owned Tier 3 sites are especially important due to their significant acreage of suitable upland habitat and because they typically have conservation objectives compatible with the Conservation Strategy. Public sites will be treated in the same manner as private sites described above. However, the Department will work with public landowners to develop site-specific habitat management plans and conservation agreements for activities that are in line with the Conservation Strategy.

Explanation

Proposed project sites that may impact suitable habitat for the Butler's gartersnake will be evaluated and classified according to the Site Classification Criteria. The criteria are used to evaluate the entire suitable habitat patch, including that portion of the patch that is not included within the project site. Conservation measures will be applied to projects based on site classification. Incidental take authorization is required for each individual project if take is likely to occur.

Broad incidental take authorization for projects that result only in the *Temporary Disturbance of Butler's Habitat* was finalized by the Department in August 2004. The authorization requires that disturbed Butler's gartersnake habitat be restored to its pre-activity condition or a condition that improves habitat for the snake following completion of the activity. See the final authorization at <http://dnr.wi.gov/org/land/er/take/TempHab.htm>.



The Mukwonago River has a rich aquatic biota, and is one of the highest quality streams remaining in southern Wisconsin. Much of its watershed remains natural or only lightly developed, water quality is good, and riparian and in-stream habitats are diverse and largely intact. The stretch of river immediately below Phantom Lake in the Village of Mukwonago has the highest fish species richness of any comparably sized stretch of stream in the State of Wisconsin and includes several State threatened and endangered fish and mussel species and numerous gamefish and panfish species.

Source: SEWRPC.



The Longear sunfish (*Lepomis megalotis*), shown in the above photograph, is a State of Wisconsin designated threatened species which inhabits certain reaches of the Mukwonago River.

Criteria for evaluating the critical habitats of Longear sunfish and other aquatic biota have changed substantially since the preparation of the original plan. Therefore, the preparation of an aquatic natural areas plan element should be conducted under the direction of a separate technical advisory committee consisting of aquatic habitat experts.

Source: John Lyons, Wisconsin Department of Natural Resources.

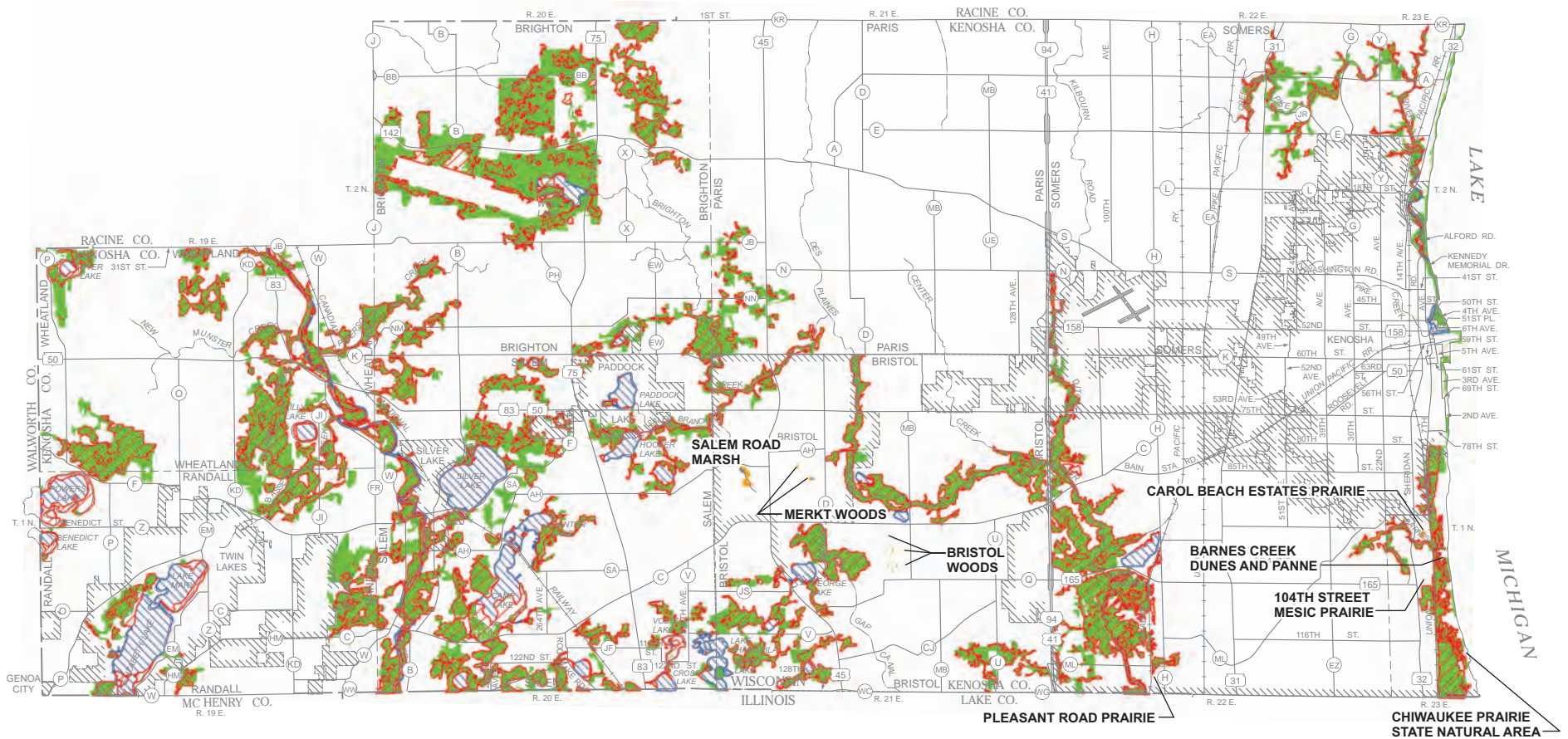
AQUATIC NATURAL AREAS

Criteria for evaluating aquatic natural areas since the preparation of the original plan have changed substantially. Accordingly, it is recommended that a separate, expanded study to amend the aquatic natural areas be undertaken. A proposed modification of the aquatic area assessment scheme for the Region's lakes and streams is presented in Appendix A. The refinement and application of the proposed assessment scheme would be conducted by the Commission under the direction of a separate technical advisory committee consisting of experts in aquatic habitats.

ADID WETLANDS

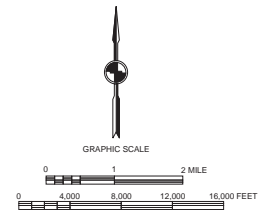
Finally, it is recommended that the Region's Advance Identification (ADID) wetlands be updated to include those wetlands located in the 2005 primary environmental corridor. Further, wetlands located in those natural areas identified in this plan that are located outside the primary environmental corridor are recommended to be designated as ADID wetlands. The proposed updated ADID wetlands are shown by county on Maps 23 through 29.

ADID WETLANDS AND WATERS OF THE STATE WITHIN KENOSHA COUNTY

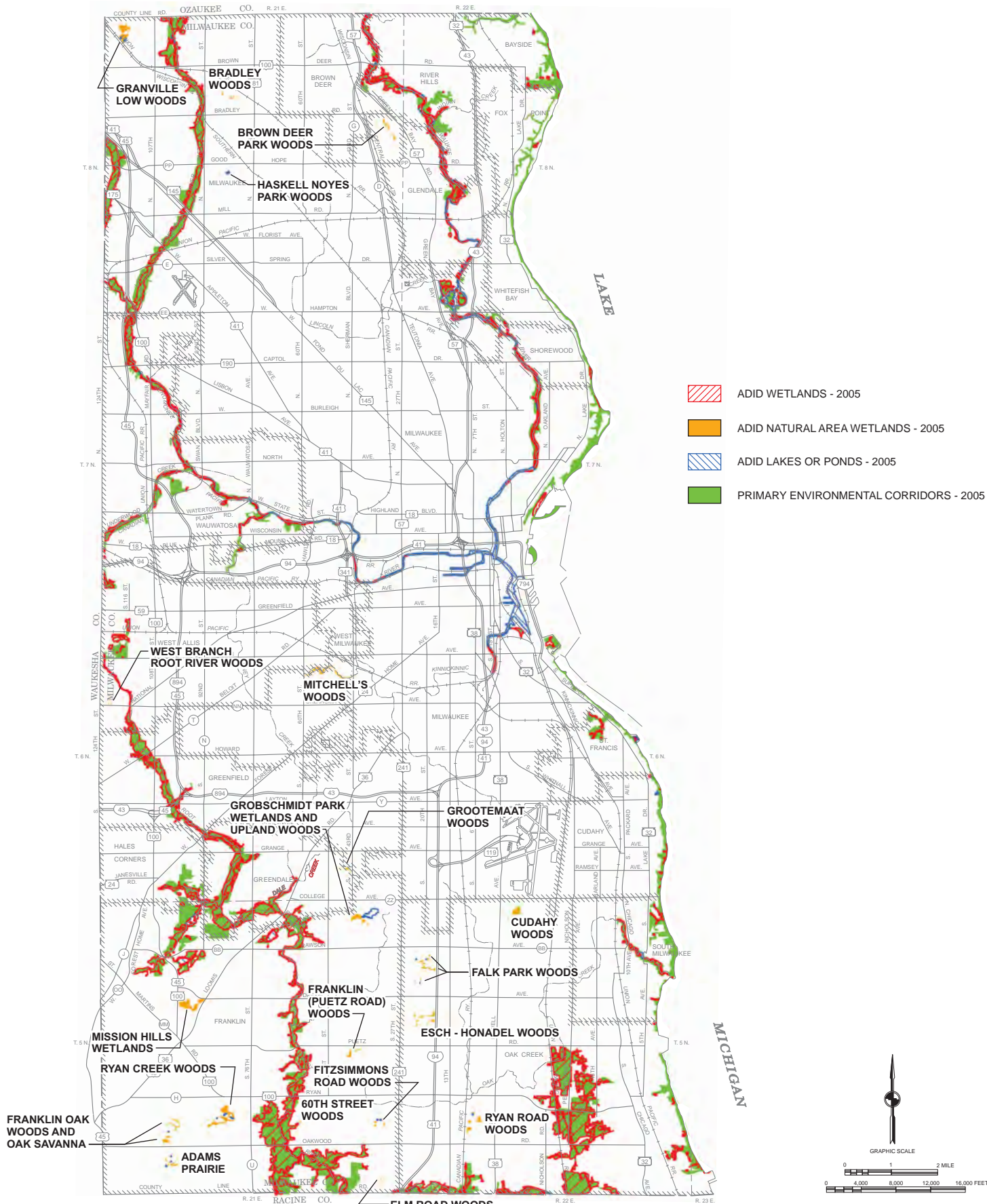


-  ADID WETLANDS - 2005
-  ADID NATURAL AREA WETLANDS - 2005
-  ADID LAKES OR PONDS - 2005
-  PRIMARY ENVIRONMENTAL CORRIDORS - 2005

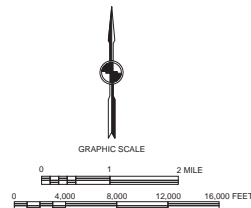
Source: SEWRPC.



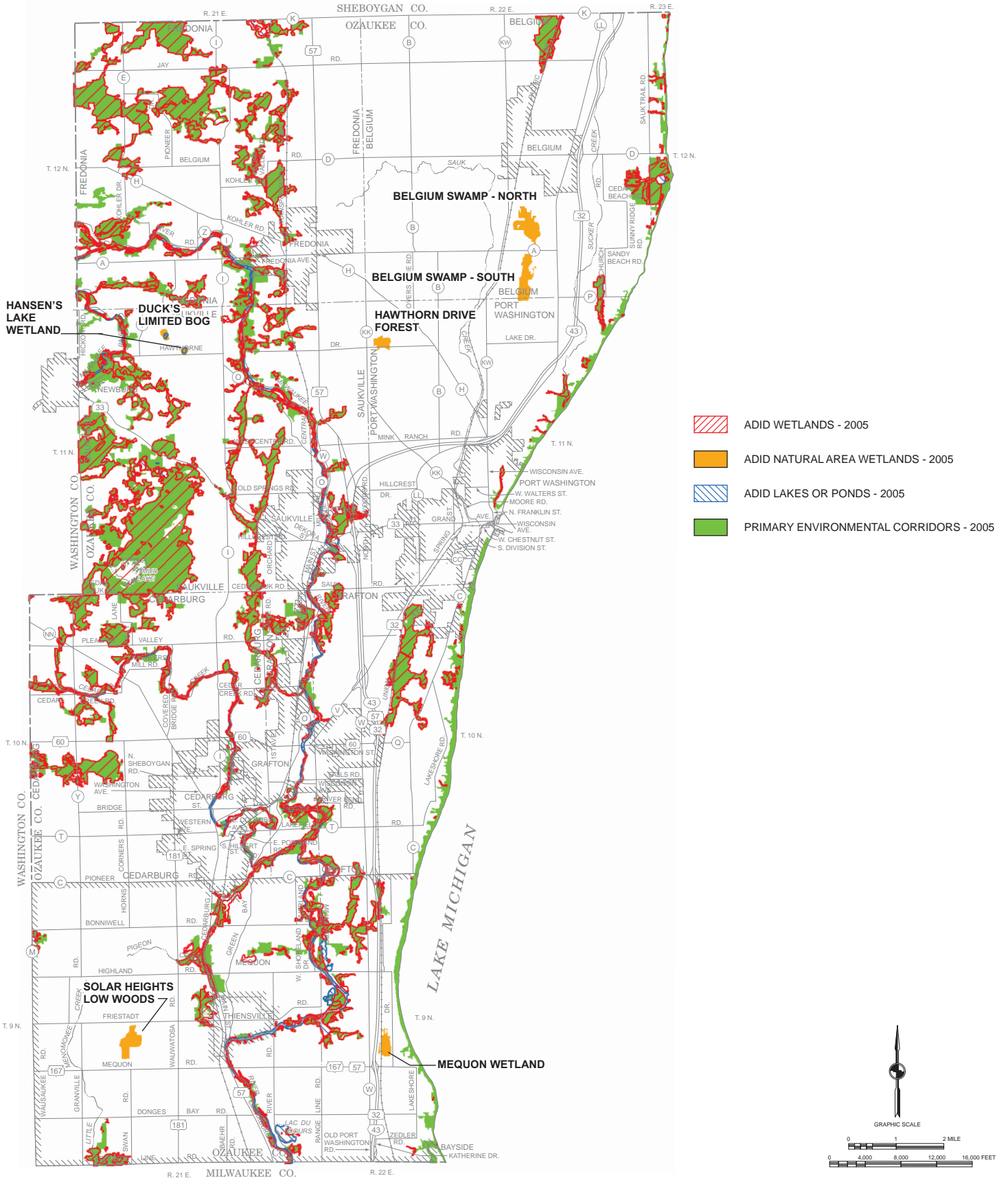
ADID WETLANDS AND WATERS OF THE STATE WITHIN MILWAUKEE COUNTY



Source: SEWRPC.



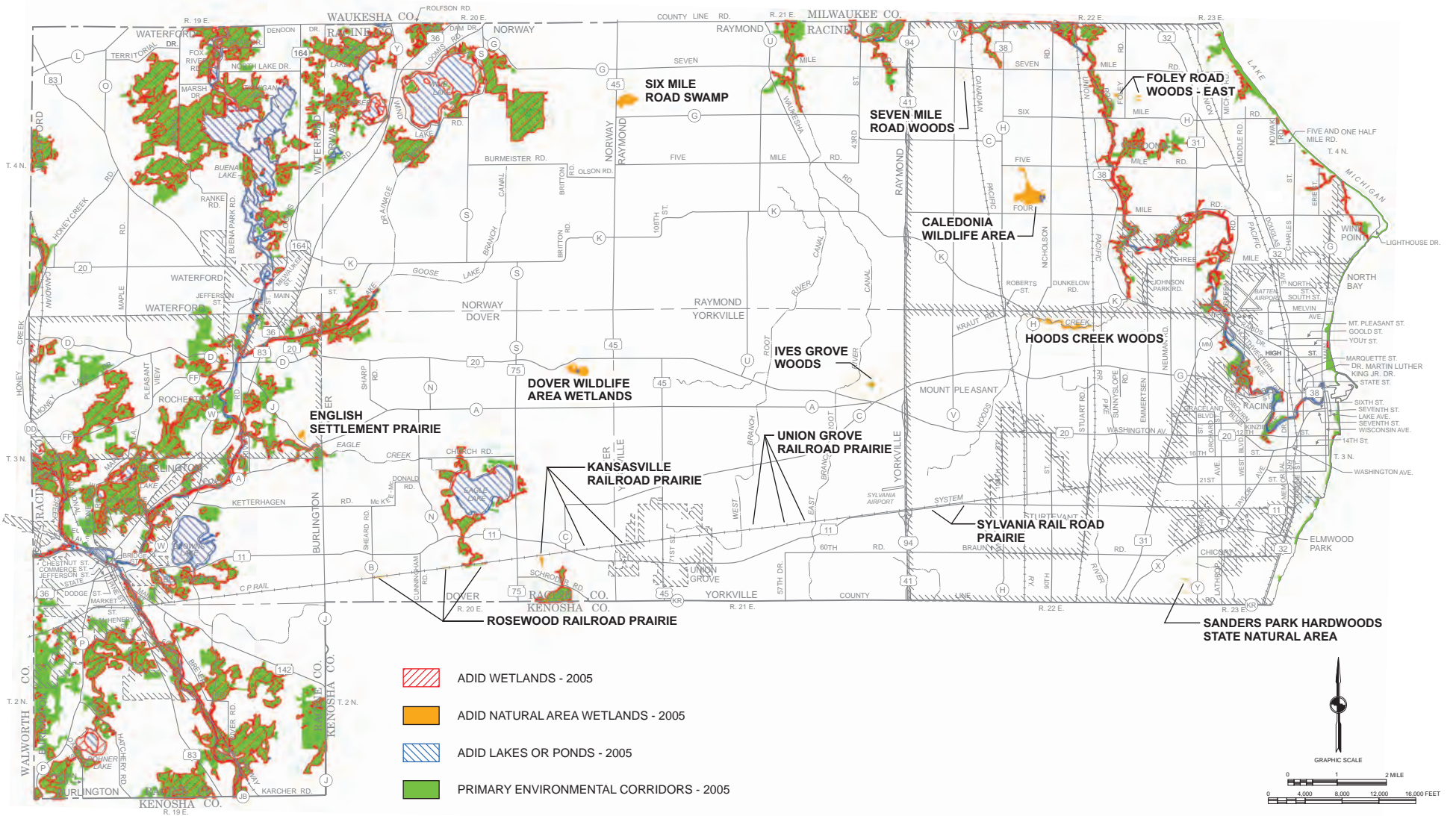
ADID WETLANDS AND WATERS OF THE STATE WITHIN OZAUKEE COUNTY



Source: SEWRPC.

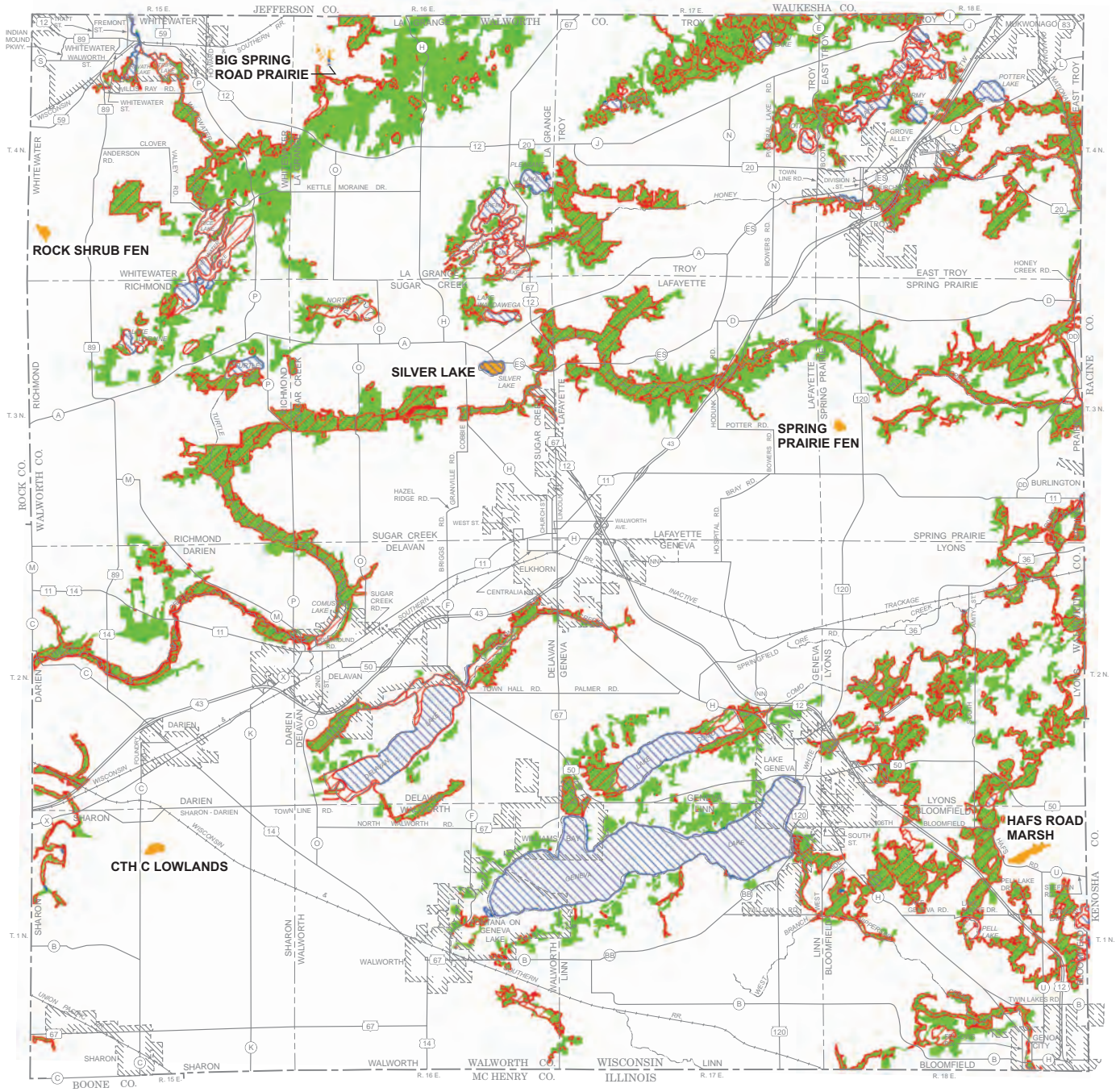
Map 26

ADID WETLANDS AND WATERS OF THE STATE WITHIN RACINE COUNTY

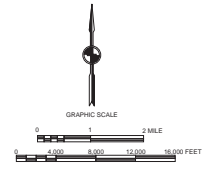


Source: SEWRPC.

ADID WETLANDS AND WATERS OF THE STATE WITHIN WALWORTH COUNTY

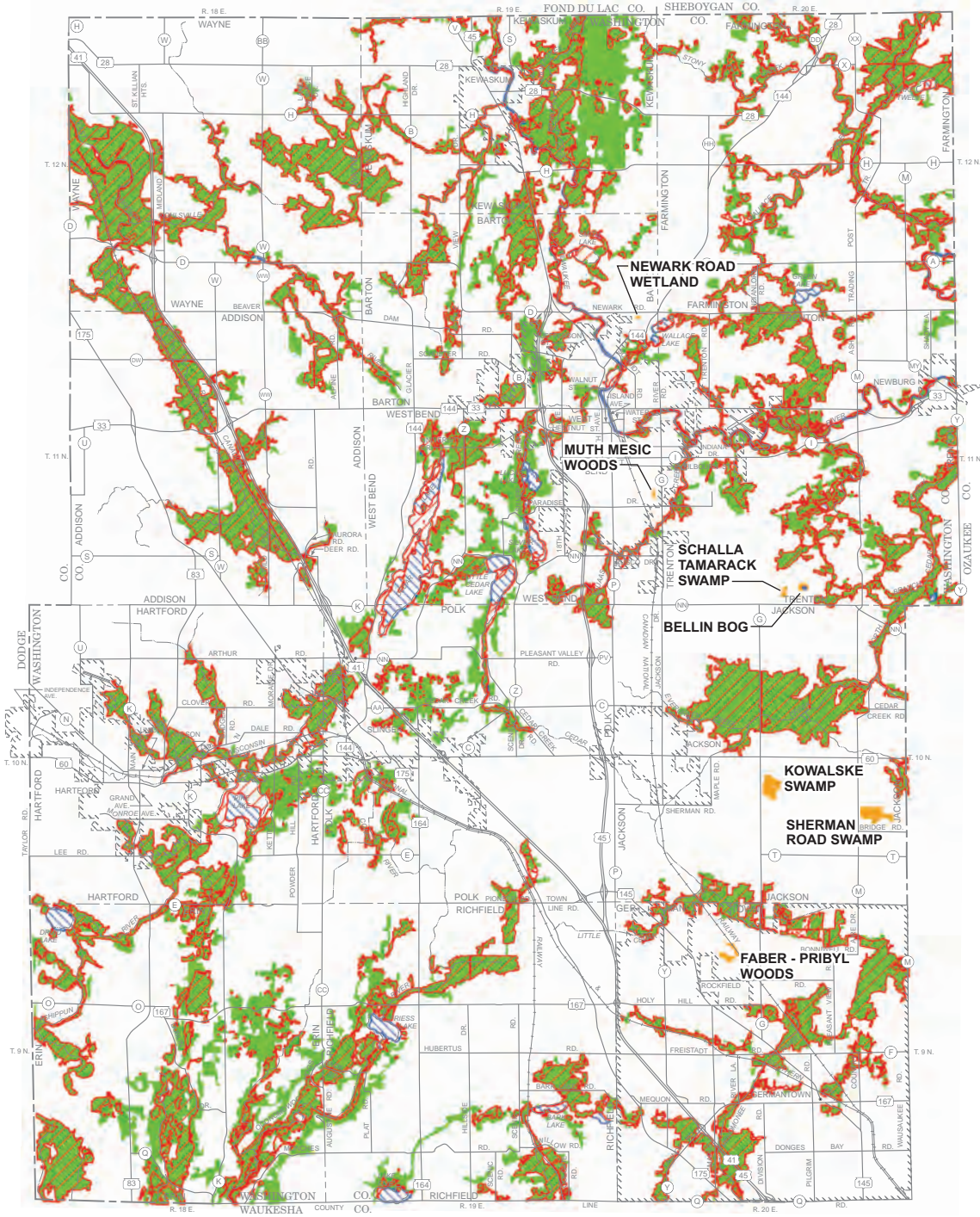


-  ADID WETLANDS - 2005
-  ADID NATURAL AREA WETLANDS - 2005
-  ADID LAKES OR PONDS - 2005
-  PRIMARY ENVIRONMENTAL CORRIDORS - 2005

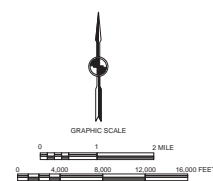


Source: SEWRPC.

ADID WETLANDS AND WATERS OF THE STATE WITHIN WASHINGTON COUNTY

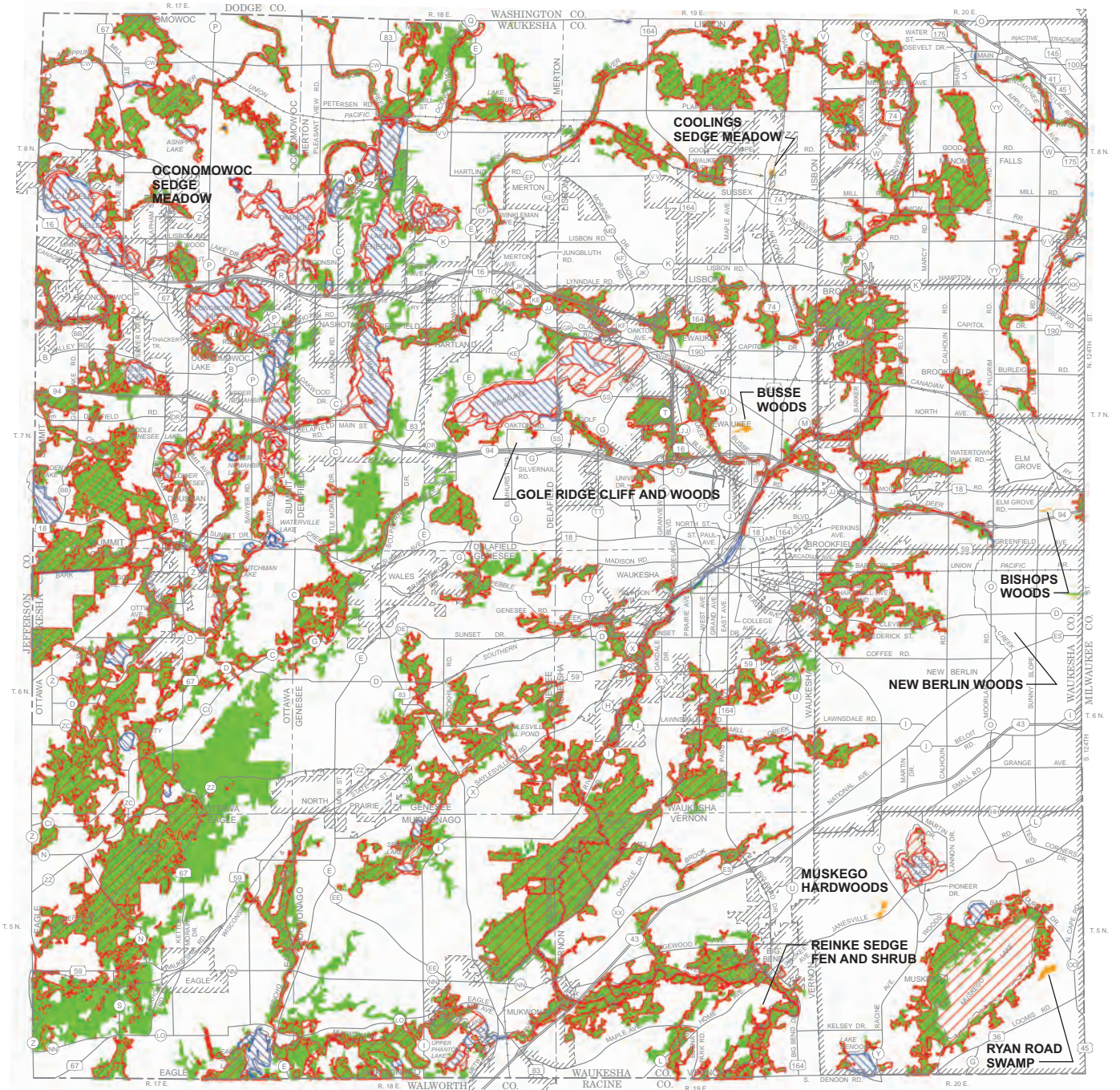


-  ADID WETLANDS - 2005
-  ADID NATURAL AREA WETLANDS - 2005
-  ADID LAKES OR PONDS - 2005
-  PRIMARY ENVIRONMENTAL CORRIDORS - 2005



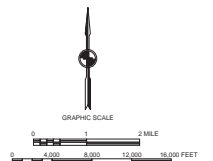
Source: SEWRPC.

ADID WETLANDS AND WATERS OF THE STATE WITHIN WAUKESHA COUNTY



-  ADID WETLANDS - 2005
-  ADID NATURAL AREA WETLANDS - 2005
-  ADID LAKES OR PONDS - 2005
-  PRIMARY ENVIRONMENTAL CORRIDORS - 2005

Source: SEWRPC.



Section 9

PRE-PUBLIC MEETING PLAN RECOMMENDATIONS AND SUMMARY

INTRODUCTION

SEWRPC Planning Report Number 42, *A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin*, published in 1997, presented an inventory of the best remaining, known remnants of the natural landscape of southeastern Wisconsin, together with a set of recommendations for the protection and management of such areas. This report documents 1) changes that have occurred in the natural landscape since that time, 2) progress that has been made in implementing plan recommendations, and 3) a new set of plan implementation recommendations.

SUMMARY OF UPDATES TO THE ORIGINAL PLAN

Through updates as discussed herein, the total number of natural areas and critical species habitat sites, and their areal extent, have been revised (Table 26). The total number of NA-1 quality sites has increased from 40 to 42, and the associated area increased from 8,700 acres to 11,220 acres. The total number of NA-2 quality sites has increased from 122 to 126; however, because the status of two relatively large NA-2 sites—Huiras Lake Woods and Jackson Swamp—were upgraded to NA-1, the actual associated area decreased from 21,191 acres to 20,722 acres. The total number of NA-3 quality sites has increased from 285 to 326, and the associated area has increased from 27,758 acres to 32,374 acres. Thus, the overall number of natural areas identified in the Region has increased from 447 to 494 sites, and the associated area from 57,649 acres to 64,316 acres. The number of critical species habitat sites has increased from 141 to 256 sites, and the associated area from 14,118 acres to 17,168 acres. In addition, one additional geological area of local significance (GA-3), encompassing 47 acres, has also been included in the updated inventory. Finally, while several sites have been diminished in areal extent, only three natural areas of local significance (NA-3)—Harley-Davidson Woods in Milwaukee County, Mueller Lake Woods in Washington County, and CTH D Railroad Prairie in Waukesha County—and three critical species habitat areas—Breakers Woods, Ives Grove Prairie Remnant, and Krieser Fen, all in Racine County—have been totally lost to development or other landscape changes.

Table 27 summarizes the changes that have occurred by county, including newly identified areas, various classification changes that are proposed, and the number of sites that, through mapping revisions, have had their areal extent revised.

Table 26

**SUMMARY OF KNOWN NATURAL AREAS AND CRITICAL SPECIES
HABITAT AREAS IN SOUTHEASTERN WISCONSIN: 2008**

Natural Area Category or Characteristic	County							Region
	Kenosha	Milwaukee	Ozaukee	Racine	Walworth	Washington	Waukesha	
NA-1 Areas								
Number of Sites	6	1 ^a	6 ^b	7	7 ^c	8	9 ^d	42
Combined Area (acres)	615	33	2,785	615	1,852	3,266	2,054	11,220
Percent of Area of County or Region.....	0.4	<0.1	1.8	0.3	0.5	1.2	0.6	0.7
Mean Size (acres)	102	33	464	88	264	408	228	267
NA-2 Areas								
Number of Sites	17 ^e	11 ^f	11	19 ^g	14 ^h	28	31 ⁱ	126
Combined Area (acres)	1,903	1,035	1,687	2,791	2,711	5,435	5,160	20,722
Percent of Area of County or Region.....	1.1	0.7	1.1	1.3	0.8	2.0	1.4	1.2
Mean Size (acres)	112	94	153	147	194	199	169	164
NA-3 Areas								
Number of Sites	19	45 ^j	34 ^k	35 ^l	63 ^m	58 ⁿ	79 ^o	326
Combined Area (acres)	1,272	2,120	3,175	2,222	5,471	7,792	10,122	32,374
Percent of Area of County or Region.....	0.7	1.4	2.1	1.0	1.5	3.0	2.8	1.9
Mean Size (acres)	67	47	93	69	87	134	128	99
Total Natural Areas								
Number of Sites	42	57	51	61	84	94	119	494
Combined Area (acres)	3,790	3,188	7,647	5,628	10,034	16,493	17,336	64,316
Percent of Area of County or Region.....	2.2	1.9	5.1	2.6	2.8	6.1	4.8	3.8
Mean Size (acres)	90	56	150	92	119	175	146	130
Critical Species Habitat Areas								
Number of Sites	33 ^p	53	15	36	36	21	64	256
Combined Area (acres)	5,402	788	692	1,436	1,468	616	6,770	17,172
Percent of Area of County or Region.....	3.1	0.5	0.4	0.7	0.4	0.2	1.9	1.0
Mean Size (acres)	164	15	46	40	41	29	106	67

Note: Because some natural areas are located within more than one county, regional totals may differ from the sums of county totals.

^a One NA-1 area shared with Ozaukee County.

^b One NA-1 area shared with Milwaukee County.

^c One NA-1 area shared with Waukesha County and one NA-1 area extends into Jefferson County.

^d One NA-1 area shared with Walworth County.

^e One NA-2 area shared with Racine County.

^f Two NA-2 areas shared with Racine County.

^g Two NA-2 areas shared with Milwaukee County and one NA-2 area shared with Walworth County.

^h One NA-2 area shared with Racine County.

ⁱ One NA-2 area shared with Racine County.

^j One NA-3 area shared with Racine County and two NA-3 areas shared with Waukesha County.

^k One NA-3 area shared with Washington County and one NA-3 area extends into Sheboygan County.

^l One NA-3 area shared with Milwaukee County, three NA-3 areas shared with Walworth County, and one NA-3 area shared with Waukesha County.

^m Two NA-3 areas shared with Waukesha County and three NA-3 areas shared with Racine County.

ⁿ One NA-3 area shared with Ozaukee County and one NA-3 area extends into Fond du Lac County.

^o Two NA-3 areas shared with Milwaukee County, two NA-3 areas shared with Walworth County, and one NA-3 area shared with Racine County.

^p One Critical Species Habitat area shared with Racine County.

Source: SEWRPC.

PRELIMINARY UPDATED RECOMMENDED PLAN

Within the framework of the objectives, principles and standards, an updated protection and management plan consisting of three plan elements—the first dealing with Natural Areas and Critical Species Habitat sites; the second dealing with significant geological sites; and the third dealing with significant archaeological sites—was developed. The major recommendations of the updated plan are summarized below:

Table 27

SUMMARY OF PROPOSED UPDATES TO SEWRPC PLANNING REPORT NUMBER 42

Site	County														Region	
	Kenosha		Milwaukee		Ozaukee		Racine		Walworth		Washington		Waukesha			
Newly Identified Areas																
--	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres
Natural Areas	3	185	13	441	1	31	2	166	7	275	5	393	13	542	44	2,033
Critical Species Habitat	17	196	40	503	10	240	8	80	15	2394	9	294	34	985	133	4,692
Total	20	381	53	944	11	271	10	246	22	2669	14	687	47	1527	174	6,725
Existing Areas Changing Classification ^a																
--	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres
NA to X	0	0	1	11	0	0	0	0	0	0	1	97	1	5	3	113
NA to CSH	0	0	2	57	0	0	1	72	0	0	0	0	0	0	3	129
NA to NA	0	0	0	0	1	435	0	0	0	0	4	2,071	0	0	5	2,506
CSH to X	0	0	0	0	0	0	3	22	0	0	0	0	0	0	3	22
CSH to NA	0	0	1	108	1	67	0	0	0	0	0	0	2	43	4	218
Total	0	0	4	176	2	502	4	94	0	0	5	2,168	3	48	18	2,988
Boundary Revisions ^b																
--	No	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres
Natural Areas	18	+77	27	+169	31	+188	25	-95	33	+325	46	+368	61	+3,510	242	+4,542
Critical Species Habitat	12	-229	9	+7	6	+193	27	+135	16	-35	7	+4	25	+702	103	+777
Total	30	-152	36	+176	37	+381	52	+40	49	+290	53	+372	86	+4,212	345	+5,319

^a X' refers to non-natural area or critical species habitat status under the updated plan.

^b Boundary Revision acres refers to net gain or loss through revised boundaries.

Source: SEWRPC.

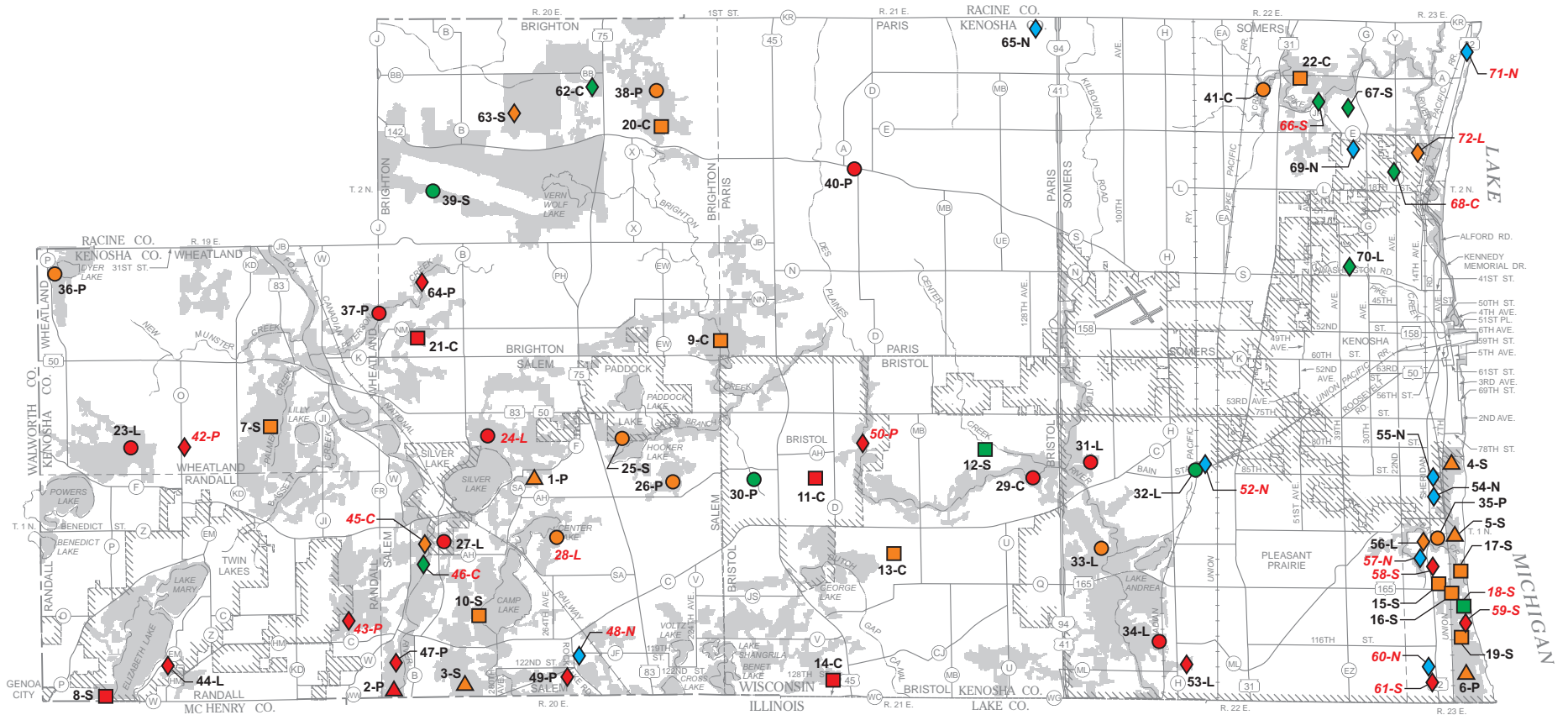
Natural Area and Critical Species Habitat Plan Element

The inventory phase of the study resulted in the identification of 494 Natural Area sites as well as 256 Critical Species Habitat sites located wholly or partially outside the boundaries of the identified Natural Areas. The plan recommends that each of these 750 sites be protected and preserved to the maximum extent practicable as urban and rural development in the Region proceeds. The plan further recommends that 662 sites, or 88 percent of the total, be placed in public or private protective ownership and that the other 88 sites be protected, insofar as it is possible, without protective ownership. Plan recommendations with respect to each of the identified Natural Area sites and Critical Species Habitat sites are presented by county on Maps 30 through 36. The plan recommends the following priorities for public-interest acquisition, given existing constraints on the financial resources of the public and private agencies proposed to be responsible for such acquisition:

1. That the highest acquisition priority be accorded to Natural Area sites of statewide or greater significance (NA-1 sites). All 42 of the identified NA-1 sites are recommended for protective ownership under the plan. The 42 NA-1 sites encompass 17.5 square miles, or about 0.6 percent of the total area of the Region. Of the 17.5-square-mile area concerned, about 11.3 square miles, or 64 percent, have already been placed under protective public or private ownership. This includes six sites where protective acquisition of the

Map 30

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN KENOSHA COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	(NONE)	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED. TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	(NONE)	◆

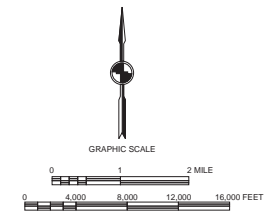
RECOMMENDED OWNERSHIP KEY:
 S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 37)

28-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 37)

■ PRIMARY ENVIRONMENTAL CORRIDORS

Source: SEWRPC.



Map 30 Reference Key

KENOSHA COUNTY

Map 30 Reference Number	Area Name
1	Silver Lake Bog State Natural Area
2	Stopa Fen
3	Peat Lake State Natural Area
4	Kenosha Sand Dunes and Low Prairie
5	Carol Beach Low Prairie and Panne State Natural Area
6	Chiwaukee Prairie State Natural Area
7	New Munster Shrub-Carr and Tamarack Relict
8	Elizabeth Lake Lowlands
9	Harris Marsh and Oak Woods
10	Camp Lake Marsh
11	Merk Woods
12	Benedict Prairie
13	Bristol Woods
14	Mud Lake Sedge Meadow
15	104 th Street Mesic Prairie
16	Carol Beach Prairie
17	Barnes Creek Dunes and Panne
18	First Avenue Prairie
19	Tobin Robin Prairie
20	Friendship Lake Marsh
21	CTH NN Sedge Meadow
22	Petrifying Springs Woods
23	Powers Lake Tamarack Relict
24	Silver Lake Wetlands
25	Hooker Lake Marsh
26	Montgomery Lake Marsh
27	CTH B-CTH AH Sedge Meadow
28	Center Lake Woods and Wetlands
29	Des Plaines River Wetlands
30	Salem Road Marsh
31	Lake Russo Prairie Remnant
32	Bain Station Railroad Prairie
33	Des Plaines River Lowlands
34	Pleasant Railroad Prairie
35	Carol Beach Estates

Map 30 Reference Number	Area Name
36	Dyer Lake Sedge Meadow
37	Peterson Creek Sedge Meadow
38	Section 11 Wetlands and Oak Woods
39	Bong Low Prairie
40	Paris (Ehlen) Prairie
41	Pike River Bottomland Woods
42	Kotrba Wetland
43	Wilmot Stream Woodland
44	Hamilton Woods
45	Fox River Park Low Woods and Sedge Meadow
46	Fox River Park Woods
47	Wilmot Ski Hill Prairie
48	Rock Lake Woods
49	Trevor Creek Wet Prairie
50	Louvain Old Field
52	Bain Station Low Prairie
53	Piela Property
54	Martin Band Parcel
55	Nedweski Parcel
56	Barnes Creek
57	Janice Prairie
58	Pleasant Prairie PCA No. 8
59	Carol Beach Parcel No. 2
60	Bourque Low Prairie
61	Carol Beach Oak Woods
62	Brighton-Dale Woods
63	Bong State Recreation Area
64	Peterson Creek
65	Poisl Woods
66	Parkside Ski Trail Prairie
67	Parkside Woods
68	Kenosha Bike Trail Prairie
69	Thompson Woods
70	Bradford School
71	Berryville Woods
72	Poerio Park Woods

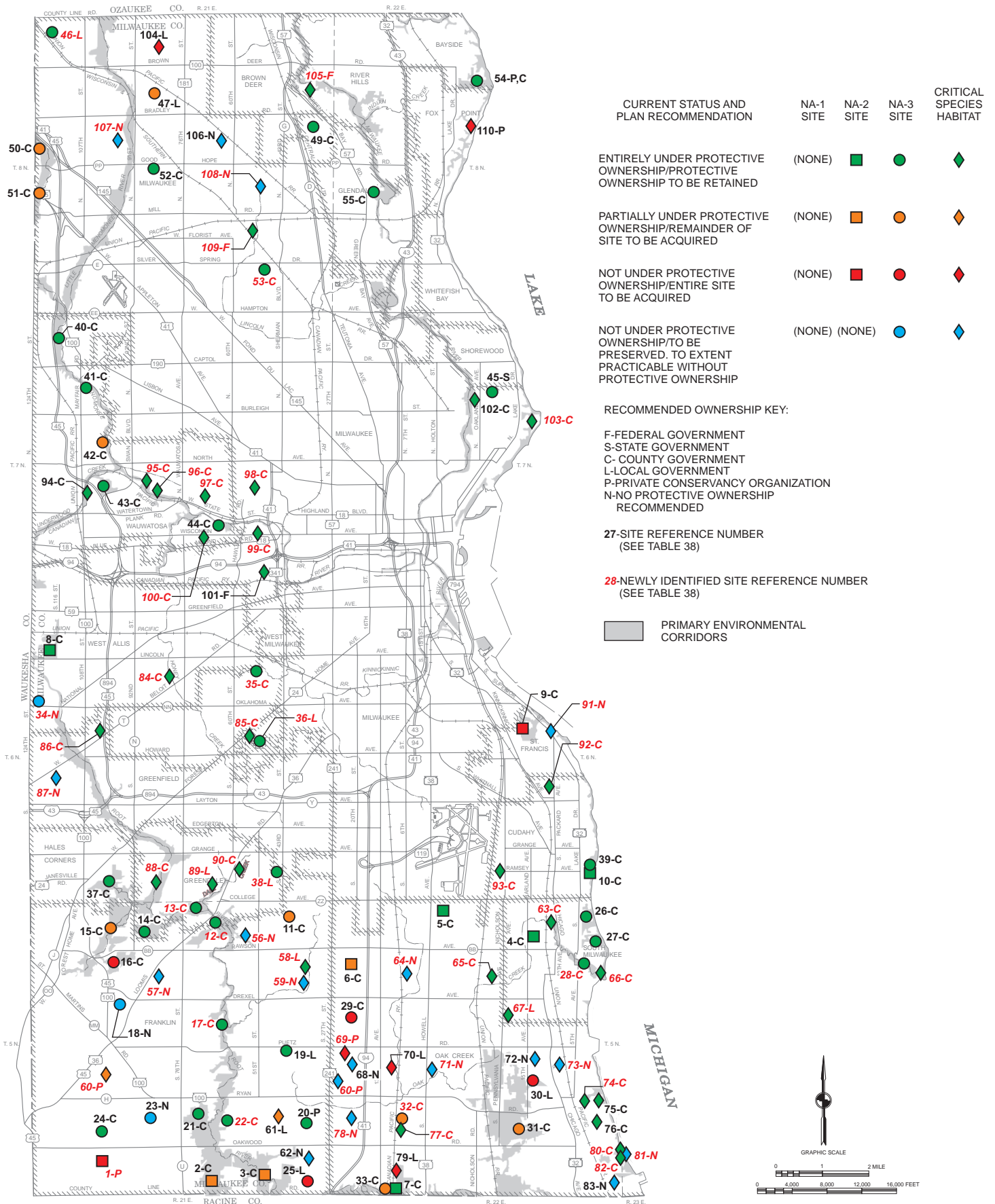
Note: Gaps in reference numbers are due to those numbers being used on post-public hearing Map 39 in Section 10.

Source: SEWRPC.

entire site has been completed. Under the plan, the remaining 6.2 square miles generally would similarly be placed under protective ownership to ensure permanent preservation. This includes the expansion of such ownership for 31 sites where protective acquisition of a part of the site has been completed, and the acquisition of five sites where protective acquisition has not yet been initiated.

2. That the second-highest acquisition priority be accorded to those Natural Areas of countywide or regional significance (NA-2 sites) and those Natural Areas of local significance (NA-3 sites) which lie within

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN MILWAUKEE COUNTY



Source: SEWRPC.

Map 31 Reference Key

MILWAUKEE COUNTY

Map 31 Reference Number	Area Name
1	Adams Prairie
2	Root River Canal Woods
3	Root River Wet-Mesic Woods—West
4	Rawson Park Woods
5	Cudahy Woods
6	Falk Park Woods
7	Root River Wet-Mesic Woods—East
8	Greenfield Park Woods
9	St. Francis Seminary Woods
10	Warnimont Park Fens
11	Grobschmidt Park Wetlands and Upland Woods
12	Bike Trail Marsh
13	Root River Low and Upland Woods
14	Root River Parkway Woods
15	Whitnall Park Woods—South
16	Monastery Lake Wetlands
17	Root River Bike Trail Woods
18	Mission Hills Wetlands
19	Franklin (Puetz Road) Woods
20	Fitzsimmons Road Woods
21	Root River Parkway Prairie
22	60 th Street Woods
23	Ryan Creek
24	Franklin Oak Woods and Oak Savanna
25	Elm Road Woods
26	Grant Park Woods—Old Growth
27	Grant Park Woods—South
28	Oak Creek Parkway Woods
29	Esch-Hanadel Woods
30	Wedge Woods
31	Oak Creek Low Woods
32	Ryan Road Woods
33	Root River Riverine Forest
34	West Branch Root River Woods
35	Mitchell's Woods
36	Glenwood School Woods
37	Whitnall Park Woods—North
38	Gootemaat Woods
39	Warnimont Park Woods
40	Menomonee River Swamp—South
41	Currie Park Low Woods
42	Blue Mound Country Club Woods
43	Wil-O-Way Woods
44	Jacobus Park Woods
45	Downer Woods
46	Granville Low Woods
47	Bradley Woods
49	Brown Deer Park Woods
50	Harbinger Woods
51	Menomonee River Swamp—North
52	Haskell Noyes Park Woods
53	McGovern Park Woods
54	Schlitz Audubon Center/Doctors Park Woods and Beach
55	Kletzsch Park Woods

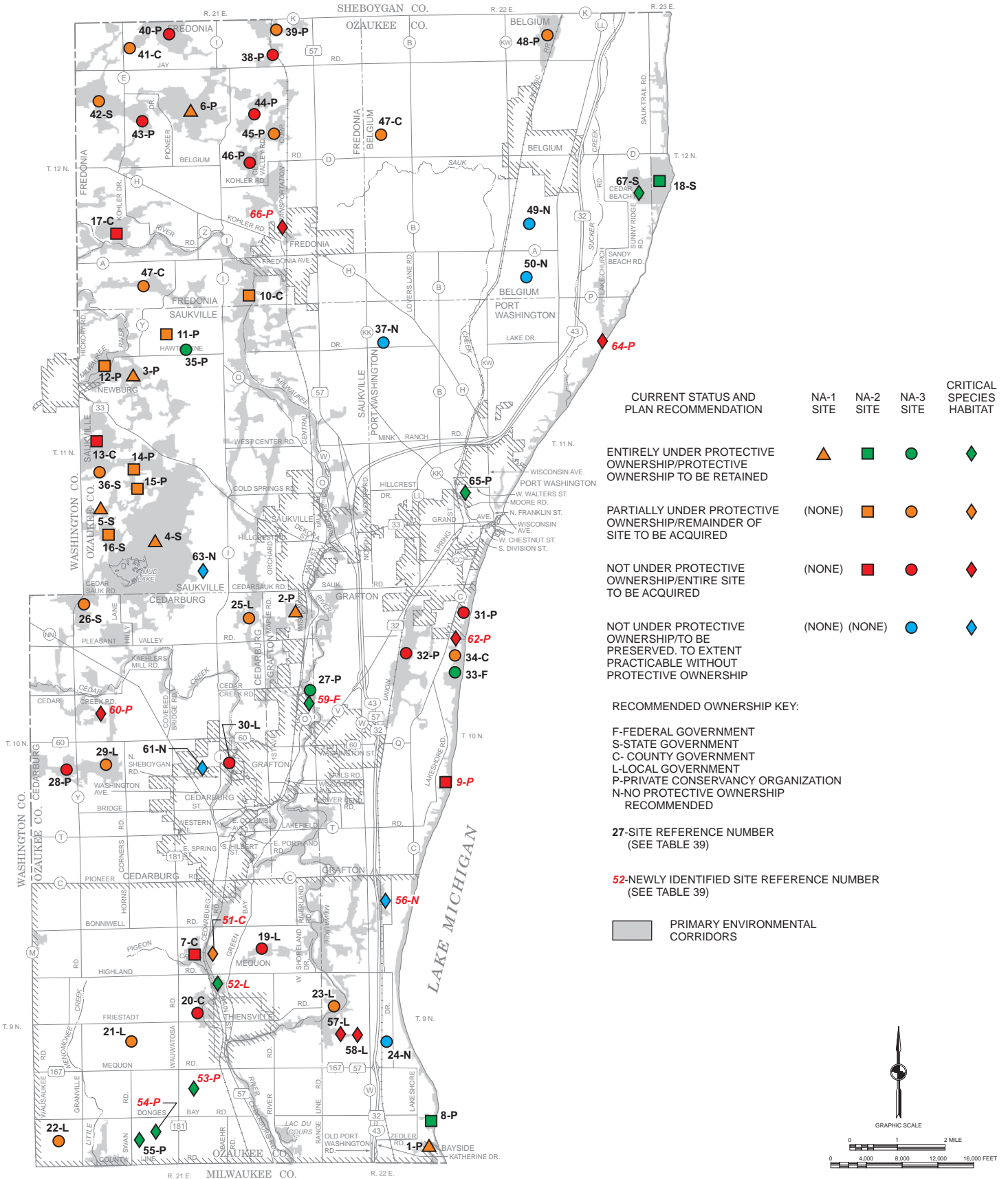
Map 31 Reference Number	Area Name
56	Russell Avenue Woods
57	Loomis Road Woods
58	Countryside Woods
59	35 th Street Woods
60	Shooting Star Prairie and Shrubland (Carity Prairie)
61	Oakwood Park Oak Woods
62	Elm Road Woods-North
63	Oak Creek Parkway Bike Trail Woods
64	Industrial Park Mesic Woods
65	Camelot Park Woods
66	Oak Creek Bluffs and Beach—North
67	Blakewood School Woods
68	Meyers Woods
69	Puetz Road Woods
70	Wood Creek Woods
71	Howell Avenue Woods
72	Fittshur Wetland
73	Schmidt/Johnson Woods
74	Bender Park Stream and Meadow
75	Bender Park Woods—North
76	Bender Park Woods—South
77	Ryan Road Upland Woods—East
78	Truck Stop Woods
79	PPG Woods
80	Bender Clay Banks and Ravine—South
81	Clay Ravine Woods
82	Oak Creek Bluffs and Beach—South
83	Oak Creek Power Plant Woods
84	Honey Creek Parkway Woods
85	Lyons Park Woods
86	Holt Park Woods
87	Cold Spring Road Thicket
88	Grange Avenue Woods
89	Westway Woods
90	Scout Lake Park Woods
91	Trestle Ravine Woods
92	Greene Park Woods
93	Cudahy Park Woods
94	Underwood Parkway Woods
95	County Grounds Woods
96	Harwood Avenue Woods
97	Hart Park/Psychiatric Hospital Woods
98	Hawthorn Glen
99	Doyne Park Woodland
100	Menomonee River PCA No. 10
101	Stadium Bluff Woods
102	Cambridge Avenue Woods
103	Lake Park Woods
104	Research Center Woods
105	Silver Maple Island
106	Brynwood Country Club Woods
107	West Granville Mesic Woods
108	Greentree Road Woods
109	Army Reserve Woods
110	Fox Point Bluffs and Ravines

Note: Gaps in reference numbers are due to those numbers being used on post-public hearing Map 40 in Section 10.

Source: SEWRPC.

Map 32

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN OZAUKEE COUNTY



Source: SEWRPC.

Map 32 Reference Key

OZAUKEE COUNTY

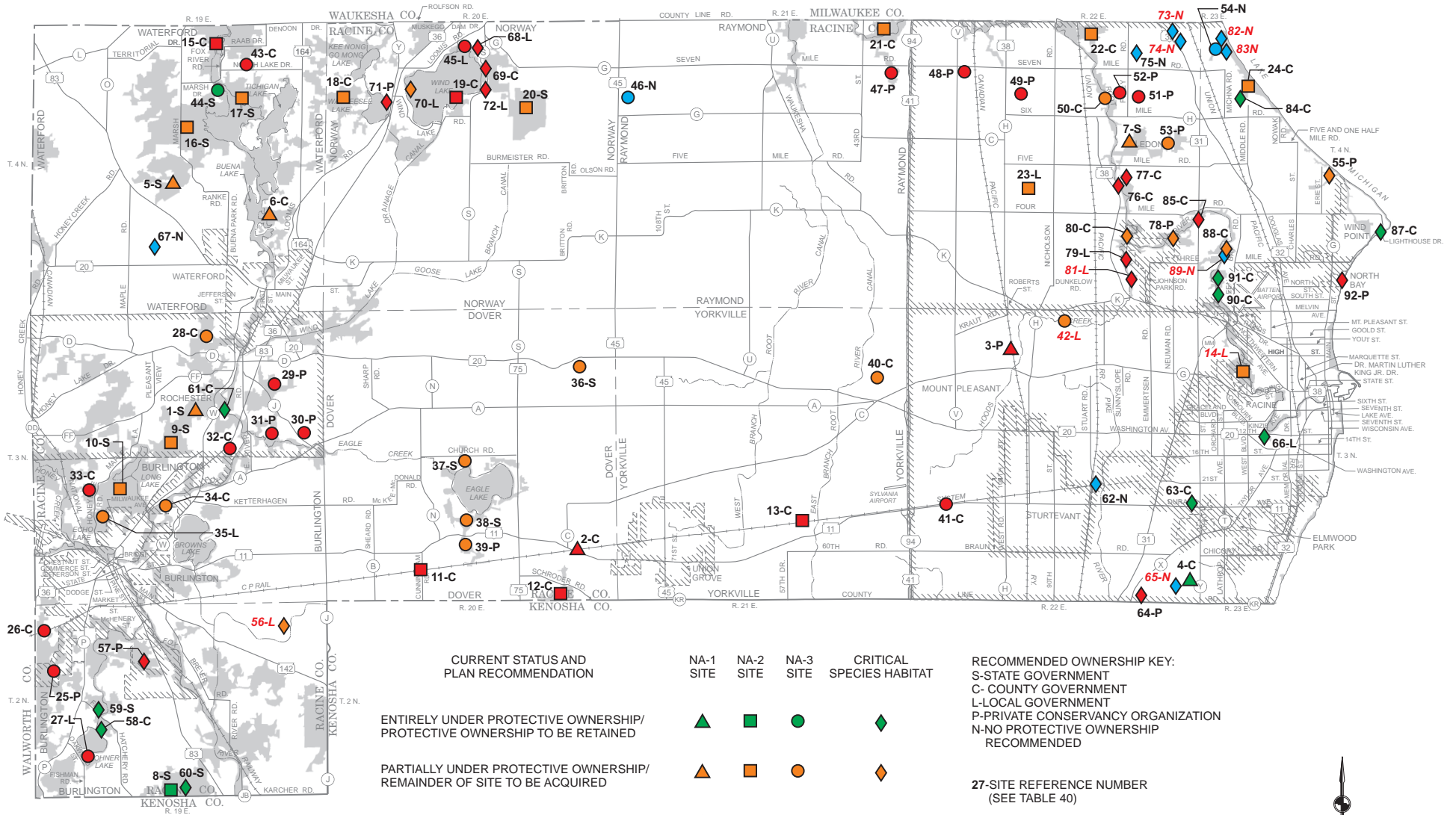
Map 32 Reference Number	Area Name
1	Fairy Chasm State Natural Area
2	Kurtz Woods State Natural Area
3	Riveredge Creek and Ephemeral Pond State Natural Area
4	Cedarburg Bog State Natural Area
5	Sapa Spruce Bog State Natural Area and Black Spruce Bog
6	Huiras Lake Woods and Bog
7	Pigeon Creek Low and Mesic Woods
8	Donges Bay Gorge
9	Abbott Woods and Ravine
10	Milwaukee River Mesic Woods
11	Ducks Limited Bog
12	Riveredge Mesic Woods
13	Kinnamon Conifer Swamp
14	Max's Bog
15	South Conifer Swamp
16	Cedarburg Beech Wood State Natural Area
17	Janik's Woods
18	Harrington Beach Lacustrine Forest
19	High Road Woods
20	Pigeon Creek Maple Woods
21	Solar Heights Low Woods
22	Triple Woods
23	Ville du Parc Riverine Forest
24	Mequon Wetland
25	Mole Creek Swamp/Pleasant Valley Park Woods
26	Cedar-Sauk Low Woods
27	Grafton Woods
28	Sherman Road Woods
29	Five Corners Swamp
30	Cedar Creek Forest
31	Cedar Heights Gorge
32	Ulao Lowland Forest
33	U.S. Fish and Wildlife Service Area

Map 32 Reference Number	Area Name
34	Lions Den Gorge
35	Hansen's Lake Wetland
36	Knollwood Road Bog
37	Hawthorne Drive Forest
38	Spring Lake Beech Forest
39	Spring Lake Marsh
40	County Line Low Woods
41	Beekeeper Bog
42	Department of Natural Resources Lowlands
43	Pioneer Road Lowlands
44	Cedar Valley Swamp
45	Evergreen Road Bog
46	Kohler Road Woods
47	Waubeka Low Woods
48	Cedar Grove Swamp
49	Belgium Swamp—North
50	Belgium Swamp—South
51	Mee-kwon Park Woods
52	Highland Woods
53	Garvey Woods
54	Gengler's Woods
55	Stauss Woods
56	Union Pacific Right-of-Way
57	Eastbrook Road Woods
58	Pecard Sedge Meadow
59	Bike Path Island
60	Woodland Meadows Woods
61	Cedar-Sauk Upland Woods
62	Port Washington Clay Banks
63	Cedar-Sauk Upland Woods
64	Port Washington Beach and Dunes
65	Sauk Creek Natural Preserve
66	Heinen Woods
67	Harrington Beach Old Fields

Source: SEWRPC.

Commission-delineated primary environmental corridors; which support endangered, threatened, or special concern plant or animal species; or which have already been at least partially placed in public or private protective ownership. Included in this priority group are all 126 of the NA-2 sites, plus 304 of the identified 326 NA-3 sites. The acreage within the 430 sites recommended for acquisition encompasses about 80.8 square miles, or about 3 percent of the total area of the Region. Of that total, about 31 square miles, or 38 percent, have already been placed under protective public or private ownership. This includes 73 sites where protective acquisition of the entire site has been completed. Under the plan, the remaining 49.8 square miles would similarly be placed under protective ownership to ensure permanent preservation. This includes the expansion of such ownership for 181 sites already partially in protective ownership, plus the acquisition of 172 sites where protective acquisition has not yet been initiated.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN RACINE COUNTY



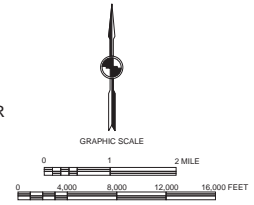
CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	▲	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED. TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	●	◆

RECOMMENDED OWNERSHIP KEY:
 S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 40)

28-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 40)

PRIMARY ENVIRONMENTAL CORRIDORS



Source: SEWRPC.

Map 33 Reference Key

RACINE COUNTY

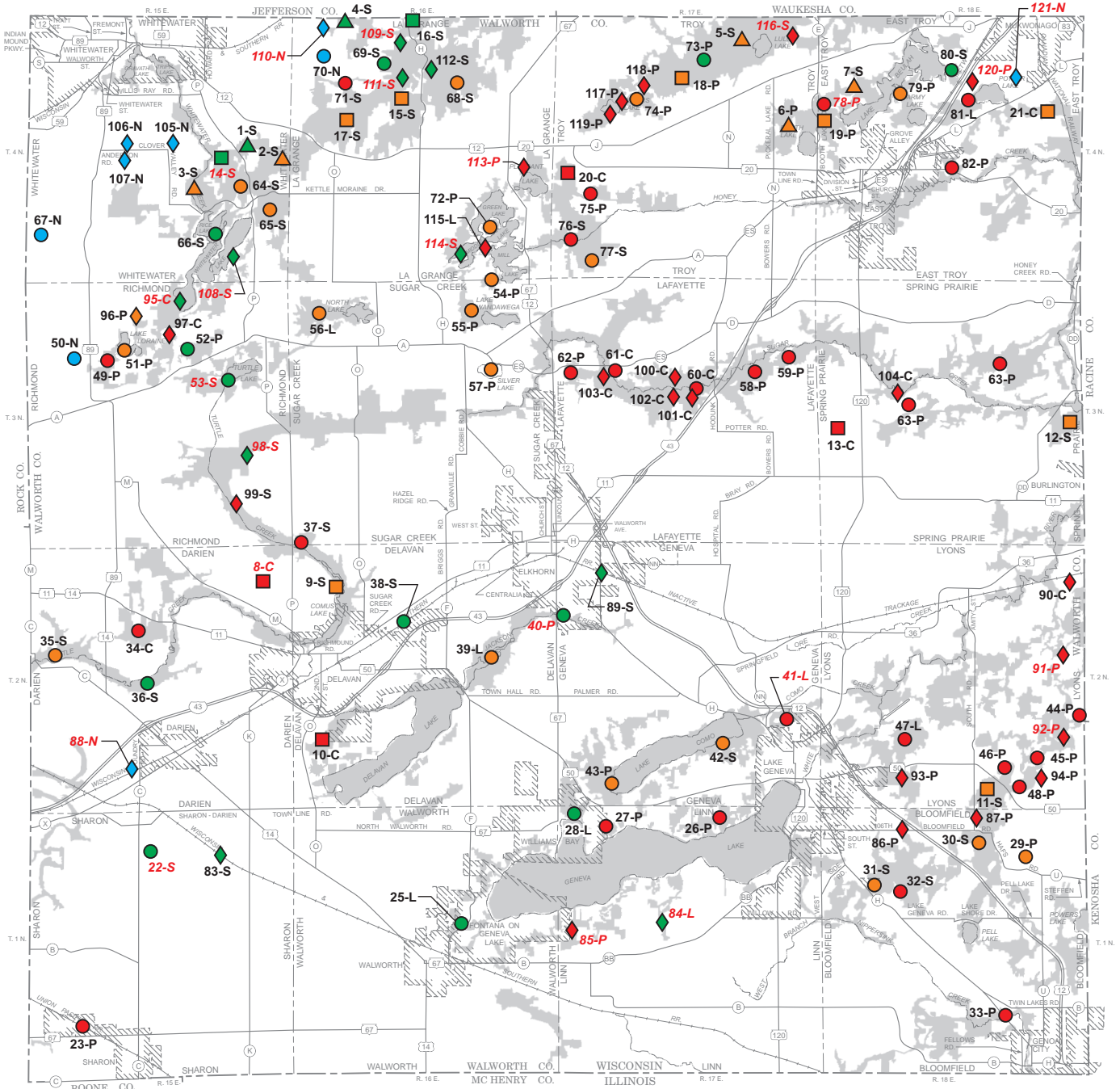
Map 33 Reference Number	Area Name
1	Cherry Lake Sedge Meadow State Natural Area
2	Kansasville Railroad Prairie
3	Franksville Railroad Prairie
4	Sander Parks Hardwoods State Natural Area
5	Tichigan Fen, Springs, and Woods
6	Elm Island Bog—Island Oak Woods
7	Renak-Polak Maple Beech Woods State Natural Area
8	Karcher Springs State Natural Area
9	Brock Lake Fen
10	Leda Lake Fen-Meadow
11	Rosewood Railroad Prairie
12	Schroeder Road Marsh
13	Union Grove Railroad Prairie
14	Colonial Park Woods
15	Norris Marsh and Slough
16	Tichigan Marsh
17	Tichigan Wetlands and Low Woods
18	Waubessee Oak Woods and Tamarack Relict
19	Wind Lake Shrub-Fen
20	Wind Lake Tamarack Swamp
21	County Line Riverine Woods
22	Hunts Woods
23	Caledonia Wildlife Area
24	Cliffside Park Woods and Clay Banks
25	Burlington Hills Woods
26	Burlington Railroad Prairie
27	Bohner Lake Lowlands
28	Wadewitz Woods
29	Rowntree Road Woods
30	English Settlement Prairie
31	Eagle Creek Woods
32	Fox River Prairie
33	Honey Lake Leatherleaf Bog
34	Fox River Riverine Forest
35	Wehmhoff Park Upland Woods and Wetlands
36	Dover Wildlife Area Wetlands
37	Church Road Lowlands
38	Eagle Lake Wetlands
39	Vandenboom Road Marsh
40	Ives Grove Woods
41	Sylvania Railroad Prairie
42	Hoods Creek Woods
43	Van Valin Woods
44	Tichigan Wet Prairie
45	Wind Lake West Meadow

Map 33 Reference Number	Area Name
46	Six Mile Road Swamp
47	Kimmel Woods
48	Seven Mile Road Woods
49	Zirbes Woods
50	Caledonia Low Woods
51	Foley Road Woods—East
52	Foley Road Woods—West
53	Tabor Woods
54	Power Plant Ravine Woods
55	Dominican Ravine
56	Mt. Tom Woods
57	Burlington Crevasse Filling
58	Margis Wildlife Area
59	Ranger Mac Fen
60	Karcher Sedge-Carr
61	Case-Eagle Park
62	Waxdale Railroad Prairie
63	Pritchard Park Woods
64	Campbell Woods
65	Willow Woods
66	Washington Park Woods
67	Maple Road Gravel Pit
68	Erwin Wetlands
69	Patzke Fen
70	Wind Lake
71	Waubessee Lake
72	Landon Wetland
73	WEPCO Oak Woods
74	WEPCO Woods
75	Sherwood Property
76	Forked Aster Site
77	River Meadow Woods
78	Caledonia Sanitary Sewer Right-of-Way
79	Hood Creek Swamp
80	Root River Bluff
81	STH 38/CTH K
82	Lakeside Woods
83	Wood Duck Woods
84	Cliffside Park Old Field
85	Four Mile Road Woods
87	Wind Point
88	Caledonia Low Woods—South
89	Root River Ravine Woods
90	Root River Strip Woods
91	River Bend Upland Woods
92	North Bay Ravine and Beach

Note: Gaps in reference numbers are due to those numbers being used on post-public hearing Map 42 in Section 10.

Source: SEWRPC.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WALWORTH COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION

- ENTIRELY UNDER PROTECTIVE OWNERSHIP/
PROTECTIVE OWNERSHIP TO BE RETAINED
- PARTIALLY UNDER PROTECTIVE OWNERSHIP/
REMAINDER OF SITE TO BE ACQUIRED
- NOT UNDER PROTECTIVE OWNERSHIP/
ENTIRE SITE TO BE ACQUIRED
- NOT UNDER PROTECTIVE OWNERSHIP/
TO BE PRESERVED, TO EXTENT PRACTICABLE
WITHOUT PROTECTIVE OWNERSHIP

NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
▲	■	●	◆
▲	■	●	◆
(NONE)	■	●	◆
(NONE)	(NONE)	●	◆

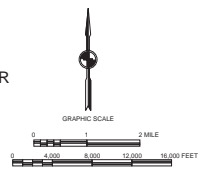
RECOMMENDED OWNERSHIP KEY:

- S-STATE GOVERNMENT
- C-COUNTY GOVERNMENT
- L-LOCAL GOVERNMENT
- P-PRIVATE CONSERVANCY ORGANIZATION
- N-NO PROTECTIVE OWNERSHIP RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 41)

22-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 41)

PRIMARY ENVIRONMENTAL CORRIDORS



Source: SEWRPC.

Map 34 Reference Key

WALWORTH COUNTY

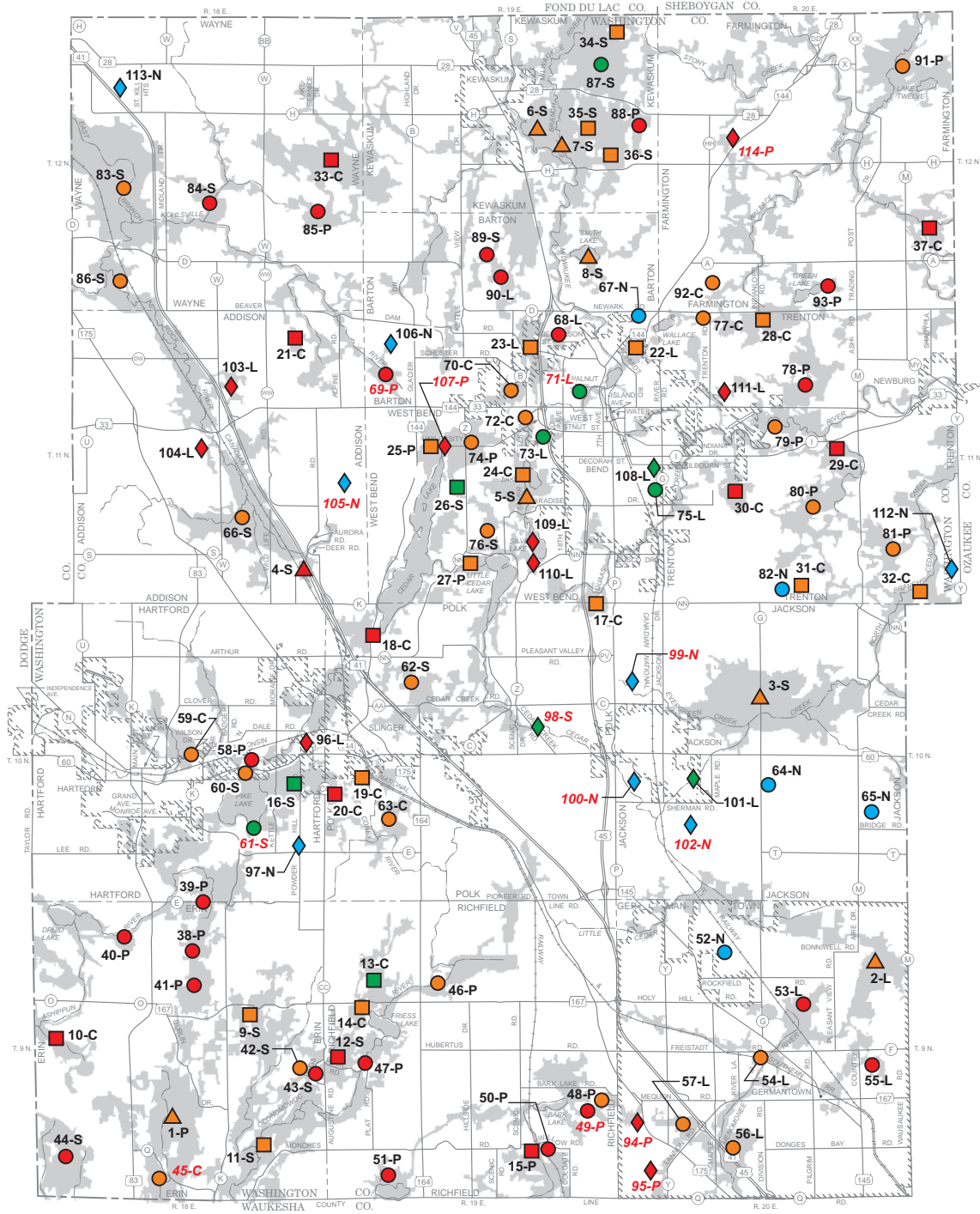
Map 34 Reference Number	Area Name
1	Bluff Creek Fens
2	Bluff Creek Woods
3	Clover Valley Fen State Natural Area
4	Young Prairie State Natural Area
5	Lulu Lake and Eagle Spring Lake Wetland Complex and Adjacent Uplands
6	Pickereel Lake Fen State Natural Area
7	Beulah Bog State Natural Area
8	Voskuil Dry Prairie
9	Comus Lake Wetland Complex
10	Delavan Prairie Fen
11	Lake Ivanhoe Fen and Sedge Meadow
12	Honey Lake Marsh and Sedge Meadow
13	Spring Prairie Fen
14	Bluff Creek Prairie
15	Muir Oak Woods and Duffin Road Fen
16	Kestol Dry Prairie
17	LaGrange Oak Woods
18	Upper Mukwonago River Wetland Complex
19	Swan Lake Wetland Complex
20	Adams Lake Fen and Marsh
21	Thiede Road Tamarack Swamp
22	CTH C Lowland
23	Salt Box Road Railroad Prairie
25	Fontana Prairie and Fen
26	Wychwood
27	Peninsula Woods
28	Williams Bay Lowlands
29	Hafs Road Marsh
30	Lake Ivanhoe Sedge Meadow
31	Bloomfield Sedge Meadow and Tamarack Relict
32	Pell Lake Railroad Prairie
33	Bloomfield Prairie
34	Darien Oak Woods
35	Turtle Creek Sedge Meadow and Fen
36	Creek Road Fen
37	CTH P Sedge Meadow
38	Marsh Road Railroad Prairie
39	Lake Lawn Wetland Complex
40	Jackson Creek Wetlands
41	Oak Hill Cemetery
42	Warbler Trail Wetlands
43	Lake Como Wetlands
44	Tri-County Tamarack Swamp
45	Peterson Fen
46	Cranberry Road Bog
49	Lake Geneva Tamarack Relict
48	Ivanhoe Creek Fen
49	Lake Loraine Woods—East
50	Lake Loraine Woods—West
51	Lake Loraine Marsh
52	Lake No. 10
53	Turtle Lake Fen
54	Baywood Road Sedge Meadow
55	Lake Wandawega Marsh
56	North Lake Marsh
57	Silver Lake
58	Pallottine Maple Woods
59	Granzeau Woods
60	Sugar Creek Fens, Springs, and Sedge Meadow

Map 34 Reference Number	Area Name
61	Sugar Creek Wetlands
62	Abells Corners Sedge Meadow and Tamarack Relict
63	Spring Prairie Lowlands
64	Lone Tree Trail Oak Woods
65	Whitewater Oak Woods
66	Rice Lake Dry Prairie
67	Rock Shrub-Fen
68	Nordic Trail Oak Woods
69	Skoponong (Duffin Road) Prairie
70	Big Spring Road Prairie
71	Connelly Fen
72	Island Woods
73	Crooked Creek Sedge Meadow
74	Doyles Lake Wetlands
75	Lein's Road Fen
76	Honey Creek Fen
77	Troy Fen
78	East Troy Bog
79	Army Lake Lowlands
80	East Troy Tamaracks
81	Potter Lake Tamaracks
82	Hilburn Sedge Meadow
83	Railroad Lowland
84	Town of Linn Park
85	Lyons Woods
86	Section 5 Marsh and Pond
87	Townline Pond
88	Darien Railroad Prairie Remnant
89	Elkhorn Railroad Prairie Remnant
90	White River Railroad Prairie
91	Roden Oak Woods
92	Seno Oak Opening
93	Radio Station Wetland
94	Peterson Property
95	Whitewater Lake Island
96	Unnamed Wetland
97	Lake Number 10 Open Woods
98	Turtle Valley Wildlife Area
99	Island Road Shrub-Carr
100	Sugar Creek Woods—North
101	Sugar Creek Woods—South
102	Sugar Creek Wet Woods
103	Abells Corners Fen
104	Hargraves Road Sedge Meadow
105	Mills Road Prairie
106	Anderson Road
107	Island Road Prairie
108	Whitewater Lake Island Woods
109	Emerson Esker Prairie
110	Bennett Dry Prairie
111	Duffin Road Dry Prairie
112	LaGrange Campground
113	Juniper Knoll Camp Woods
114	Middle Lake Sedge Mat
115	Lauderdale Lakes Woods
116	Horn Dry Prairie
117	Harmony Hills Savanna
118	Doyles Lake Prairie
119	Camp Timberlee
120	Anderson Bog
121	Eastwood Estates Woods

Note: Gaps in reference numbers are due to those numbers being used on post-public hearing Map 43 in Section 10.

Source: SEWRPC.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WASHINGTON COUNTY



CURRENT STATUS AND
PLAN RECOMMENDATION

ENTIRELY UNDER PROTECTIVE OWNERSHIP/
PROTECTIVE OWNERSHIP TO BE RETAINED

PARTIALLY UNDER PROTECTIVE OWNERSHIP/
REMAINDER OF SITE TO BE ACQUIRED

NOT UNDER PROTECTIVE OWNERSHIP/
ENTIRE SITE TO BE ACQUIRED

NOT UNDER PROTECTIVE OWNERSHIP/
TO BE PRESERVED, TO EXTENT PRACTICABLE
WITHOUT PROTECTIVE OWNERSHIP

NA-1
SITE

(NONE)

▲

▲

(NONE)

NA-2
SITE

■

■

■

(NONE)

NA-3
SITE

●

●

●

●

CRITICAL
SPECIES HABITAT

◆

(NONE)

◆

◆

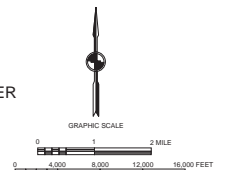
RECOMMENDED OWNERSHIP KEY:

S-STATE GOVERNMENT
C-COUNTY GOVERNMENT
L-LOCAL GOVERNMENT
P-PRIVATE CONSERVANCY ORGANIZATION
N-NO PROTECTIVE OWNERSHIP
RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 42)

49-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 42)

PRIMARY ENVIRONMENTAL
CORRIDORS



Source: SEWRPC.

Map 35 Reference Key

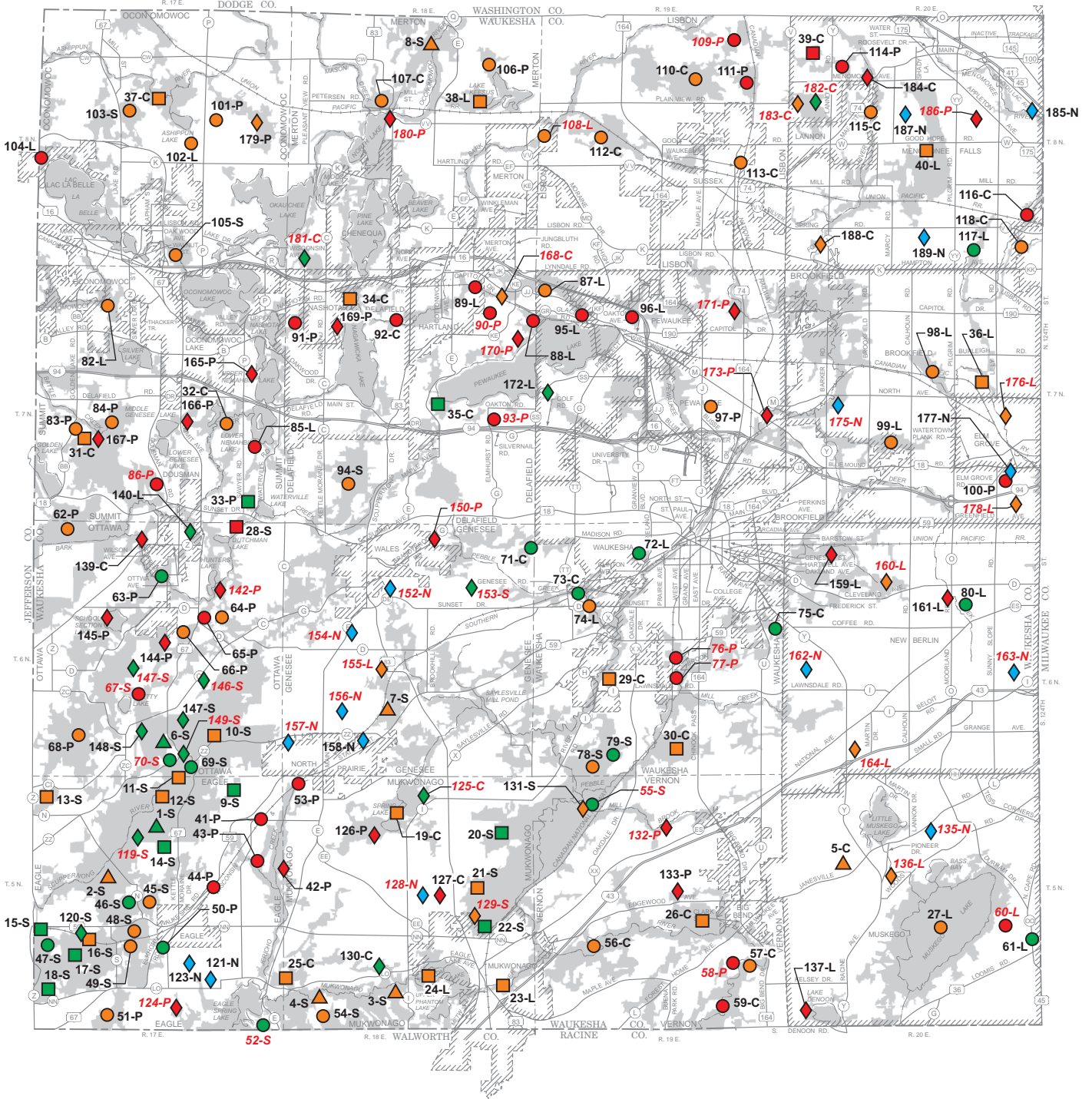
WASHINGTON COUNTY

Map 35 Reference Number	Area Name
1	Murphy Lake—McConville Lake Wetland Complex
2	Germantown Swamp
3	Jackson Swamp
4	Aurora Road Fen
5	Paradise Lake Fen
6	Kewaskum Maple-Oak Woods State Natural Area
7	Milwaukee River Floodplain Forest State Natural Area
8	Smith Lake Fen and Swamp
9	Holy Hill Woods
10	Toland Swamp
11	Loew's Lake Wetland Complex
12	Friess Lake Tamarack Swamp
13	Daniel Boone Bogs and Upland Woods
14	Glacier Hills Park Bogs and Upland Woods
15	Colgate Fen-Meadow
16	Pike Lake Woods
17	Mud Lake Swamp
18	Big Cedar Lake Bog
19	Mud Lake Meadow
20	Mud Lake Upland Woods
21	St. Anthony Beech Woods
22	Lac Lawrann Conservancy Upland Woods and Wetlands
23	Blue Hills Woods
24	Silverbrook Lake Woods
25	Gilbert Lake Wetlands and Uplands
26	Hacker Road Bog
27	Little Cedar Lake Wetlands
28	Sandy Knoll Swamp
29	Myra Wetlands
30	Schoenbeck Woods
31	Bellin Bog
32	Reinartz Cedar Swamp
33	Wayne Swamp
34	Kettle Moraine Drive Bog
35	Glacial Trail Forest
36	St. Michael's Woods
37	North Branch Woods
38	Hults Bog and Marsh
39	CTH E Wetlands
40	Erin Sedge Meadow
41	Thompson Swamp
42	Donegal Road Woods
43	St. Augustine Road Sedge Meadow
44	Mason Creek Swamp
45	Little Oconomowoc River Woods and Wetlands
46	CTH J Swamp
47	Hubertus Road Sedge Meadow
48	Amy Bell Lake and Lowlands
49	Amy Bell Lake Bog
50	Colgate Shrub-Carr
51	Lake Five Woods
52	Faber-Pribyl Woods
53	Hoelz Swamp
54	Lake Park Swamp
55	Schoessow Woods
56	USH 41 Swamp
57	Kleinman Swamp

Map 35 Reference Number	Area Name
58	STH 60 Swamp
59	Rubicon Lowlands
60	Pike Lake Sedge Meadow
61	Pike Lake Wetland—South
62	Slinger Upland Woods
63	Heritage Trails Bog
64	Kowalske Swamp
65	Sherman Road Swamp
66	Allenton Swamp
67	Newark Road Wetlands
68	Sunset Park Wetlands
69	Kohlsville River Upland Woods and Wetlands
70	Albecker Park Wetlands
71	Regner Park Woods
72	Silver Creek Marsh
73	University Fen
74	CTH Z Upland Woods and Wetlands
75	Muth Woods
76	Ziegler Woods
77	Sandy Knoll Wetlands
78	Poplar Road Lacustrine Forest
79	Fellenz Hardwood Swamp
80	Camp Wowitan Wetlands
81	Paradise Drive Tamarack Swamp
82	Schalla Tamarack Swamp
83	Theresa Swamp
84	Wayne Creek Swamp
85	Stockcar Swamp
86	Rock River Marsh
87	Kettle Moraine Drive Woods
88	STH 28 Woods
89	Lange Hardwoods
90	Wildwood Hardwoods Swamp
91	Milwaukee River Swamp
92	Lazard Mound Woods
93	Green Lake Bog
94	Wheaton Woods
95	Willow Creek Swamp
96	Unnamed Wetland No. 2
97	Unnamed Wetland No. 1
98	Cedar Creek Fen
99	Friedens Creek Woods
100	Lamm Woods
101	Jackson Woods
102	Chinkapin Oak Woods
103	St. Anthony Maple Woods
104	Doll Woods
105	Nabob Upland Woods
106	Riesch Woods
107	Gilbert Lake Woodland
108	High School Woods
109	Silver Lake Woods
110	Silver Lake Swamp
111	Cameron Property
112	Fechters Woods
113	Unnamed Wetland No. 3
114	STH 28 Woodland

Source: SEWRPC.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WAUKESHA COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	▲	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO BE ACQUIRED	(NONE)	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED. TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	(NONE)	◆

RECOMMENDED OWNERSHIP KEY:
 S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP RECOMMENDED

27-SITE REFERENCE NUMBER
 (SEE TABLE 43)

55-NEWLY IDENTIFIED SITE REFERENCE NUMBER
 (SEE TABLE 43)

PRIMARY ENVIRONMENTAL CORRIDORS

Map 36 Reference Key

WAUKESHA COUNTY

Map 36 Reference Number	Area Name
1	Kettle Moraine Fen and Low Prairie State Natural Area
2	Scuppernong Prairie State Natural Area
3	Mukwonago Fen, Sedge Meadow, and Tamarack Relict
4	Upper Mukwonago River
5	Muskego Park Hardwoods State Natural Area
6	Ottawa Lake Fen State Natural Area
7	Genesee Oak Opening and Yatzedk's Fen State Natural Area
8	Monches Woods
9	Ulrickson Road Cedar Glade
10	Ottawa Oak Woods and Dry Prairies
11	Eagle Shrub-Fen
12	Eagle Fen and Spring
13	Beaver Dam Lake
14	Kettle Moraine Limestone Outcrop
15	Eagle Railroad Prairie
16	Eagle Dry Prairie and Grotjan's Fen
17	Eagle Woods and Dry Prairies
18	Fur Farm Pond
19	Spring Lake Sedge Meadow and Fens
20	Vernon Tamarack-Fen
21	Vernon Prairie-Fen
22	Vernon Fen
23	Lower Mukwonago River
24	Phantom Lake Wetlands
25	Brown Lake Wetlands, Woods, and Prairies
26	Big Bend Wet-Mesic Woods
27	Muskego Lake Marsh
28	Henrietta Lake Bog
29	Fosters Woods
30	Falk Fen and Woods
31	Genesee Lake Road Bog
32	Bark River Marsh
33	Sawyer Road Sedge Meadow
34	Nagawicka Lake Bog and Oak Woods
35	Pewaukee Lake Access Fen
36	Zion Woods
37	Ashippun River Lowlands
38	Lake Keesus Fen-Meadow
39	Held Maple Woods
40	Menomonee Falls "Tamarack" Swamp
41	Road X Railroad Prairie
42	Holtz Oak Opening
43	Jericho Creek Fen
44	Mailman Road Railroad Prairie
45	Paradise Springs Woods
46	Paradise Creek Prairie
47	Slute Springs
48	STH 59 Oak Woods and Prairies
49	Old World Wisconsin Marsh
50	Eagle Centre (Haffner) Oak Opening
51	Malek Wetland
52	Eagle Spring Lake Bog, Woods, and Prairie
53	North Prairie Railroad Prairie
54	Rainbow Springs Woods, Wetlands, and Prairie
55	Vernon Marsh Low Woods
56	Porter Low Woods
57	River Oaks Woods and Wetlands
58	Reinke Sedge Fen

Map 36 Reference Number	Area Name
59	Norris Oak Woods and Wetlands
60	Ryan Road Swamp
61	Luther Parker Cemetery Prairie
62	Perkins Property
63	Nelson Oak Woods and Wetlands
64	Ottawa Limestone Outcrop
65	Casper Creek Sedge Meadow
66	Larkin Lake
67	Pretty Lake Tamarack Relict
68	CTH ZC Lowlands
69	Scuppernong Springs Dry Prairie and Xeric Woods
70	Ottawa Lake Prairie
71	Brown's Fen
72	Fruits Pond Fen
73	Pebble Creek Railroad Prairie
74	Pebble Creek Wetlands
75	Minooka Park Woods
76	Pebble Creek Woods—North
77	Pebble Creek Woods—South
78	Fox River Woods
79	Vernon Wet-Mesic Prairie
80	New Berlin Woods
82	Oconomowoc Swamp
83	Crossroads Bog
84	Laura Lake Swamp
85	Breens Bay Sedge Meadow
86	Dousman Road Fen-Meadow
87	Capitol Drive Sedge Meadow and Wet Prairie
88	Pewaukee Lake Wetland
89	Hartland Railroad Prairie
90	Prairie Wind Farms Woods
91	Nashotah House Woods
92	Bark River School Sedge Meadow
93	Golf Cliff Ridge and Woods
94	Lapham Peak Woods
95	Pewaukee Sedge Meadow
96	Pewaukee Park Sedge Meadow
97	Busse Woods
98	Wirth Swamp
99	Brookfield Swamp
100	Bishops Woods
101	Oconomowoc Sedge Meadow
102	Meadow View School Bog
103	Raasch Tamarack Swamp
104	Lac La Belle Lowlands
105	Oconomowoc River Marsh
106	Camp Whitcomb Lowland
107	Chenequa Wetland Complex
108	Merton Millpond and Woods
109	Colgate Road Swamp and Woods
110	Lisbon Low Woods
111	Sussex Swamp
112	Thousand Oaks Tamarack Relict
113	Coolings Sedge Meadow
114	Peters Woods
115	Zuba Woods
116	Menomonee River Swamp
117	Theater Swamp

Map 36 Reference Key (continued)

Map 36 Reference Number	Area Name
118	Clarks Woods
119	Kettle Moraine Recovering Prairie
120	Headquarters Grassland
121	Eagle Dump Oak Opening
123	Domon Prairie Remnant
124	Nature Road Woodland and Dry Prairie
125	Dunlop Dry-Mesic Prairie
126	Spring Lake Woods
127	Romanowski Fen
128	Stonegate Dry Prairie
129	Greenwald Woods
130	Mukwonago Park Oak Opening
131	Vernon Marsh
132	Mill Brook Fen
133	Pheasant Hill Woods
135	Janesville Road Woods
136	Old Muskego Settlement Woods
137	Denoon Lake Wetlands
139	Utica Lake Tamaracks
140	Dousman Mill Pond
142	Stephenson Shrubby Fen
144	Lurvey Tamaracks
145	School Section Lake
146	PEL 1134 Oak Opening
147	Dog Trial Area
148	Unnamed Shrub-Grassland
149	Ottawa Lake Dry Woods
150	Dragon Fen
152	Roberts Oak Opening
153	Borrow Pit Prairie
154	Schanke Property
155	Lunt-Fontanne Park Prairie
156	Grush Road Dry Prairie

Map 36 Reference Number	Area Name
157	North Prairie Dry Prairie
158	North Prairie Kettle Deep Marsh
159	Delopst Meadow
160	Stigler Woods
161	Kostello Property
162	Swartz Woods
163	Schkeryantz Woods
164	Spring Valley Woods
165	Massaro Woods
166	Duck Lake
167	Genesee Lake Road Tamaracks
168	Jungbluth Road Railroad Prairie
169	Nagawicka Lake
170	Taylor Road Woods
171	Swan Farms Woods
172	Meadowbrook Prairie
173	CTH M Shrubland
175	Brookfield Oak Woods
176	Underwood Creek Woods
177	Elm Grove Road Pond
178	Kinsey Park Woods
179	Stonebank Tamarack Relict
180	North Lake Low Woods
181	Nashotah Park Woods
182	Menomonee River Parkway Woods
183	Campground Woods
184	Ranch Woodland
185	Heritage Woods
186	Thorndell Avenue Woods
187	Rademan's Woods
188	Fox River Woodland
189	Glass-Glick Woods

Note: Gaps in reference numbers are due to those numbers being used on post-public hearing Map 45 in Section 10.

Source: SEWRPC.

- That the third-highest acquisition priority be accorded to those Critical Species Habitat sites which are not wholly contained within a designated Natural Area, but which either are located within a Commission-delineated primary environmental corridor or are already at least partially in public or private protective ownership. A total of 190 of the identified 256 Critical Species Habitat sites are included in this priority group. These 190 sites encompass about 19.2 square miles, or less than 1 percent of the total area of the Region. Of that total, about 16.8 square miles, or 88 percent, have already been placed under protective public or private ownership. This includes 77 sites where protective acquisition of the entire site has been completed. Under the plan, the remaining 2.4 square miles would similarly be placed under protective ownership to ensure permanent preservation. This includes the expansion of such ownership for 22 sites already partially in protective ownership, plus the acquisition of 91 sites where protective acquisition has not yet begun.

4. That the fourth-highest acquisition priority be accorded to those activities intended to reestablish relatively large tracts of grasslands and forest interiors within the Region for the purpose of enhancing bird populations.

Upon implementation of these site acquisition recommendations, 472 Natural Area sites, or 96 percent of the 494 Natural Area sites found within the Region, would be in protective public or private ownership. In addition, of the 256 Critical Species Habitat sites not wholly located within a Natural Area, 190 sites, or 74 percent, would be in protective ownership.

The updated plan also reiterates the following recommendations made in the original plan: 1) the adjustment of Commission-delineated primary environmental corridor boundaries to fully encompass inventoried Natural Areas and Critical Species habitat sites; 2) the reflection of the Natural Area and Critical Species Habitat inventory findings in the administration of Federal, State, and local wetland regulatory programs; 3) the potential modification of State law and administrative rules to ensure that State agency actions attendant to the approval of sanitary sewer extensions or private sewage disposal systems do not result in the destruction of Natural Areas or Critical Species habitat sites recommended for preservation and protection; and 4) the proper consideration of Natural Areas and Critical Species Habitat sites in the preparation of land use and other development plans by and in the related regulatory activities of county and local units of government.

The plan recognizes a need to properly manage Natural Areas and Critical Species Habitat sites to ensure that the critical species and natural communities concerned can flourish. Without proper management, such areas may be significantly altered over time and their natural values diminished or lost. The plan further recognizes that management techniques appropriate for one type of natural area or critical species habitat area may not be appropriate for others and that management measures must be developed and applied on a site-by-site basis. Accordingly, the plan recommends that the public agencies and private conservancy organizations proposed to be responsible for site preservation and protection respectively prepare and implement detailed management plans specific to each site.

It should be further noted that two significant natural area and critical species habitat sites, discovered subsequent to publication of Planning Report No. 42, have been lost to the Region even before they could be included in the Plan Amendment (Table 28)

Geological Site Plan Element

Under the plan, all 87 of the designated Geological Areas identified during the inventory phase of the study are recommended to be protected and preserved (Map 37). More specifically, the plan, as developed by the Advisory Committee, recommends the following:

1. That the highest priority be accorded to the acquisition of Geological Areas whose acquisition has been recommended under prior State, regional, or county plans and Geological Areas which have been recommended for protective ownership as Natural Areas or Critical Species Habitat sites. A total of 48 Geological Areas fall into this priority group. About 32.0 square miles within these 48 sites are located



The Town of Linn Park Nature Preserve was donated to the Town of Linn, Walworth County, in 2000. It is a 160 acre Town Park of which 154 acres is dedicated for prairie, oak opening, and wetland restorations to benefit grassland nesting birds. The Geneva Lake Conservancy holds a conservation easement on the property. The above photograph, taken at the Town of Linn Nature Park, shows open grown Bur oaks (*Quercus macrocarpa*) which are characteristic of southeastern Wisconsin's oak openings.

Source: SEWRPC.

Table 28

**NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IDENTIFIED
SINCE PLANNING REPORT NUMBER 42 THAT HAVE SUBSEQUENTLY BEEN
SERIOUSLY DEGRADED SO AS NOT TO BE ELIGIBLE FOR LISTING IN THE PLAN AMENDMENT**

Site Name	Location	Proposed Classification Code	Critical Plant Species Formerly Present
CTH C Low Prairie (3 acres) ^a	Kenosha County T1N R21E Section 13 Village of Pleasant Prairie	NA-3	<i>Cacalia tuberosa</i> (T) <i>Parthenium integrifolium</i> (T) <i>Ranunculus cymbalaria</i> (T)
CTH KD Dry Prairie (1 acre)	Kenosha County T1N R19E Sections 10, 15 Town of Randall	CSH	<i>Asclepias lanuginose</i> (T) <i>Asclepias sullivantii</i> (T)

^aField investigations in 2009 revealed that, despite severe degradation of the prairie habitat, both *Cacalia tuberosa* and *Parthenium integrifolium* were still present on the site in small numbers; the site will be added to the Regional inventory as a Critical Species Habitat Area.

Source: SEWRPC.

within Natural Areas or Critical Species Habitat sites recommended to be preserved, or within another Geological Area. An additional 35.1 square miles within these 48 sites have been recommended to be acquired for protective ownership under existing plans. Of the 35.1 square miles so proposed to be acquired, about 24.0 square miles, or 68 percent, were in 2007 already under protective ownership.

2. That the second-highest priority be accorded to the acquisition of 24 Geological Areas which have not been recommended for protective acquisition under prior plans but which are classified as GA-1 sites or are located within a primary environmental corridor. A total of 338 acres, or just over 0.5 square mile, is generally recommended for protective ownership at these 24 sites.
3. That the remaining 15 Geological Areas be protected and preserved to the maximum extent practicable, without public-interest acquisition. The preservation of these sites should be taken into account in the preparation of land use plans and other development plans by county and local units of government.

Archaeological Site Plan Element

The plan recommends the protection and preservation of the 14 archaeological sites in the Region which have been listed on the National Register of Historic Places (Map 15). Four of these sites are currently held by public or private agencies in protective ownership, and a fifth site is partially held in protective ownership. Under the plan, the remaining nine sites would be protected and preserved to the maximum extent practicable, without public-interest acquisition, relying largely on protection afforded to National register sites under Federal and State law and on county and local planning and zoning. None of these sites lies within a Natural Area, a Critical Species Habitat site, or a designated Geological Area.

PLAN IMPLEMENTATION

This report presents recommendations directed toward the concerned Federal, State, county, and local units and agencies of government, as well as private conservancy organizations, to implement the recommended natural areas and critical species habitat protection and management plan. Recommended actions include formal adoption or endorsement of the plan; integration of the plan findings and recommendations into the work program of each agency—including, at the county and local levels, integration into land use and other development plans; acquisition of Natural Areas, Critical Species Habitat sites, and Geological Areas as recommended in the plan; and proper management of all sites which are placed under protective ownership.

Under the plan, the permanent protection of Natural Areas, Critical Species Habitat sites, and Geological Areas depends in large measure on site acquisition and management by numerous public and private agencies. Site-specific recommendations directed toward State agencies, counties, local units of government, and private conservation organizations are set forth in the plan. The plan recommends that the Wisconsin Department of Natural Resources assume responsibility for ownership and management of 175 individual Natural Areas, Critical Species Habitat sites, Geological Areas, grassland, and forest interior sites in the Region. The plan recommends that the seven counties comprising the Region assume responsibility for ownership and management of 222 sites; cities, villages, towns, school districts, and other local units of government assume responsibility for 135 sites; and private conservancy organizations assume responsibility for 211 sites. The Wisconsin Department of Transportation and the University of Wisconsin would be responsible for ownership and management of 17 sites.

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.

PUBLIC REACTION TO THE PRELIMINARY RECOMMENDED PLAN UPDATE

A series of four public informational meetings regarding the update to the regional natural areas and critical species habitat protection and management plan was conducted in April 2009. Upon entering the open houses, and at several junctures during each meeting, attendees were encouraged by staff to record their comments, so that their thoughts could be considered by the Regional Natural Areas Plan Advisory Committee and the Commission.

Comments during the public informational meetings were recorded in two basic ways: 1) attendees completing a written comment form—or submitting comments in writing by any other means found convenient; and 2) via dictation to a court reporter in which case the comments from persons registering were transcribed from oral to written form.

Attendees were also advised that their comments could be submitted at any time following the meetings via the Commission's website, email, fax, or the U.S. Postal Service. Similarly, these comment opportunities were noted in the *Newsletter* and newspaper advertisements discussed above, with a comment form also available on the SEWRPC website.

Citizens were apprised via the announcements, via speaker registration and plan comment forms, and via presentations at each meeting that the public record would be held open for a period of 15 days following the last of the public meetings, held on April 30, 2009, in the Village of Eagle, concluding with materials postmarked May 15, 2009.

A copy of the preliminary recommended plan, in its entirety, was noted as being available at the Commission offices during normal business hours of 8:00 a.m. to 4:30 p.m., Monday through Friday.

Each of the meetings included an informal one-hour "open house" session at which Commission staff were present. During this time, participants were free to review maps and other plan materials, to ask specific and individualized questions, and to offer comments.

Following the open house at each of the public meetings, a presentation of the plan was made to help summarize and highlight important matters for the attendees. A copy of the staff presentation and all comments received were published in the Commission's *Record of Public Informational Meetings and Public Comments: Update to the Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin*, dated October 2009.

Map 37

**PLAN RECOMMENDATIONS
FOR GEOLOGICAL SITES IN THE
SOUTHEASTERN WISCONSIN REGION**

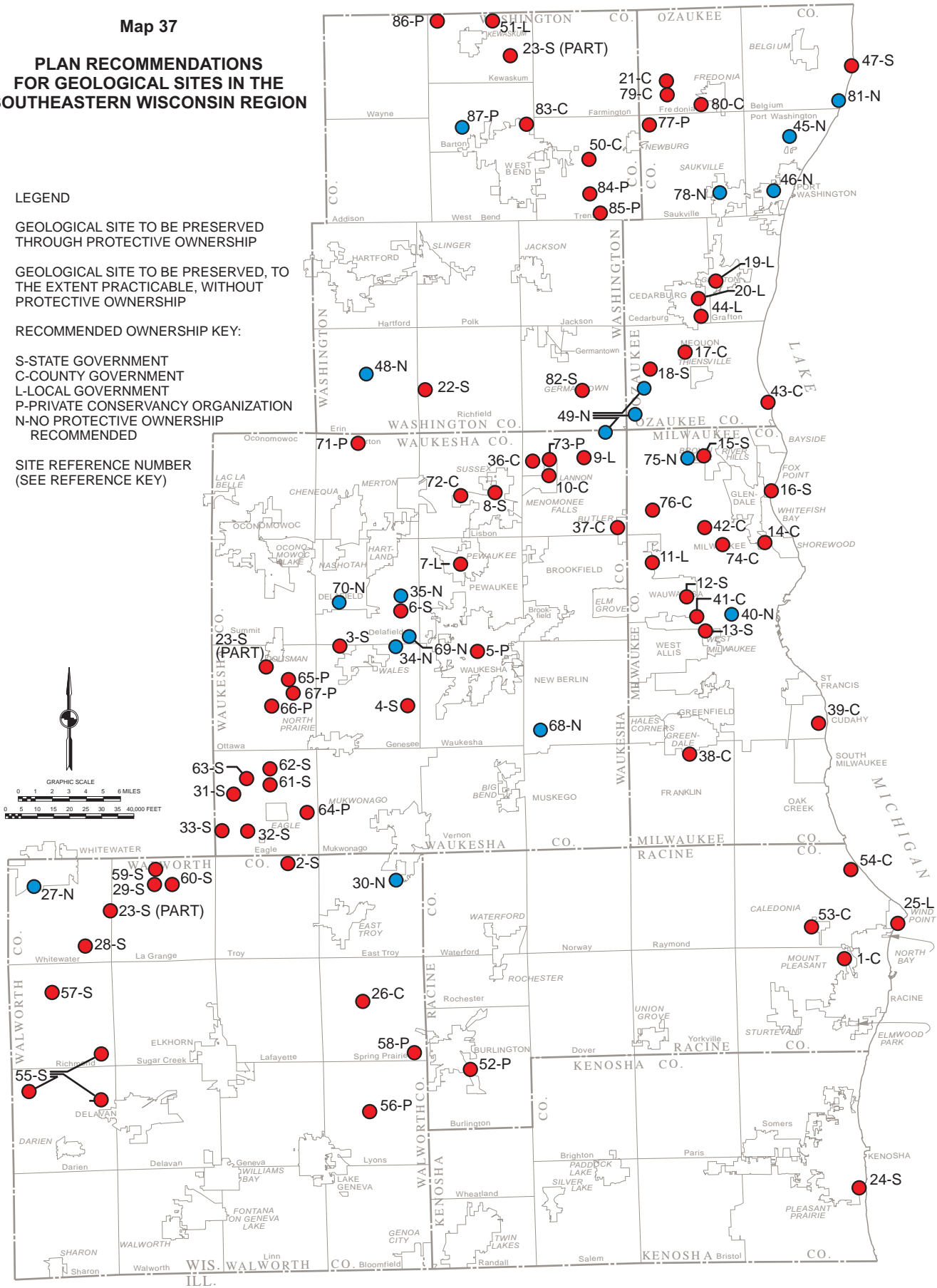
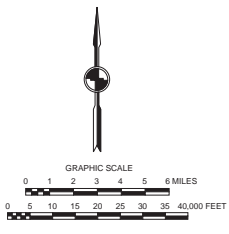
LEGEND

- GEOLOGICAL SITE TO BE PRESERVED THROUGH PROTECTIVE OWNERSHIP
- GEOLOGICAL SITE TO BE PRESERVED, TO THE EXTENT PRACTICABLE, WITHOUT PROTECTIVE OWNERSHIP

RECOMMENDED OWNERSHIP KEY:

- S-STATE GOVERNMENT
- C-COUNTY GOVERNMENT
- L-LOCAL GOVERNMENT
- P-PRIVATE CONSERVANCY ORGANIZATION
- N-NO PROTECTIVE OWNERSHIP RECOMMENDED

87 SITE REFERENCE NUMBER (SEE REFERENCE KEY)



Source: SEWRPC.

Map 37 Reference Key

Map 37 Reference Number	Area Name
1	Horlickville Bluffs and Quarries
2	Lulu Lake Glacial Lake and Crevasse Filling
3	Scuppernong Creek Spillway
4	Johnston Quarry and Kilns
5	Carroll College Quarry
6	Jones Quarry
7	Pewaukee Stone Pits, Quarries, and Outcrops
8	Sussex Lime Kiln
9	Menomonee Falls Reef
10	Raasch's Dome
11	Hartung Quarry
12	Schoonmaker Reef
13	Soldiers' Home Reef
14	Estabrook Park-Lincoln Park Area
15	Brown Deer Railroad Cut
16	Whitefish Bay Shore Exposure
17	Thiensville Roadcut and Quarry
18	Ozaukee Buried Forest
19	Milwaukee River-Grafton Outcrops and Lime Kiln Park
20	Cedar Creek-Anschuetz Quarries
21	Phyllocarid Quarry
22	Friess Lake (Hogsback) Crevasse Filling
23	Kettle Moraine Interlobate Moraine
24	Kenosha Dunes and Buried Forest
25	Wind Point
26	Sugar Creek Quarry
27	Whitewater Quarry
28	Whitewater Lake-Rice Lake Eskers
29	John Muir Trail Kettle Holes
30	Casselman's Quarry
31	Scuppernong Pitted Outwash
32	Eagle Esker
33	Eagle Kettle Hole
34	Delafield Drumlin Fields
35	Delafield Interurban Cut
36	Menomonee Park Quarry and Domes
37	Menomonee River Outcrop
38	Root River Outcrops
39	Warnimont Park Clay Banks
40	Lime Ridge
41	Menomonee River Outcrops
42	McGovern Park
43	Virmond Park Clay Banks

Map 37 Reference Number	Area Name
44	Groth Quarry
45	Druecker's Lime Kiln
46	Sauk Creek Outcrop
47	Harrington Beach State Park
48	Erin Esker
49	Little Menomonee River Reef District
50	Myra Esker
51	Kewaskum Conical Kame
52	Burlington Crevasse Filling
53	Root River Outcrops
54	Cliffside Park Clay Banks
55	Turtle Creek Glacial Spillway
56	Lyons Glacial Deposits
57	Morainic Triple Point
58	Voree Quarry
59	Spirits Wash Bowl
60	Nordic Trail Kettle Holes
61	Stark Road Quarry
62	Brady's Rock
63	Scuppernong Glacial Lake
64	Jericho Creek Outcrop
65	Hunter's Bluff
66	Unnamed bluff
67	Unnamed quarry
68	Prospect Hill Drumlin
69	Tessmann Drumlin
70	Audley's Quarry
71	Merton Esker
72	Sussex Railroad Cut
73	Derrick Quarry
74	Lincoln Creek
75	Brazelton's Creek Outcrop
76	Mill Road Reef
77	Riveredge Bluff
78	Saukville Reef
79	Waubeka Quarry
80	Fredonia Quarries
81	Belgium Abandoned Shoreline
82	Germantown Roadcut
83	Lac Lawrann Kame and Esker
84	Camp Wowitan Esker
85	Trenton Quarry and Lime Kiln
86	Kewaskum Quarry and Lime Kiln

Source: Wisconsin Department of Natural Resources, Wisconsin Geological and Natural History Survey, and SEWRPC.

SUMMARY OF COMMENTS

Attendance at the four public informational meetings totaled 68 persons. Comments received by the Commission pertaining to the Regional Natural Areas and Critical Species Habitat Protection and Management Plan Amendment were received from 18 persons, agencies, municipalities, and organizations, including written comments received at the meetings, comments dictated to the court reporter at the meetings, and comments received via U.S. mail, e-mail, and the comments page of the Commission website. Some submissions had multiple signatories. Some agencies, municipalities, or organizations made multiple submissions or comments.

The Commission's response to these comments are grouped according to support of, opposition to, and specific aspects of the proposed plan amendment as follows.

Comments in Support of the Preliminary Amendment to the Regional Natural Areas and Critical Species Habitat Protection and Management Plan

Seven comments were received that expressed general support for the preliminary Plan Amendment. In addition, 10 comments were received that, in essence, expressed support for the plan, but also specifically referred to suggested additions or corrections to the plan, including new information that had not been previously received by the Commission staff. Furthermore, one comment was received from the Wisconsin Wetlands Association indicating their support for the joint proposal by the U.S. Department of the Army, Corps of Engineers, U.S. Environmental Protection Agency, and Wisconsin Department of Natural Resources to update and re-verify the Advanced Identification (ADID) program in Southeastern Wisconsin. Comments received from one signatory were not relevant to the Natural Areas Plan or the Plan Amendment, but rather related to open space issues at the Milwaukee County Grounds.

Comments in Opposition to the Plan Amendment

The Commission received no comments expressing opposition to the plan.

Comments Regarding Specific Aspects of the Plan Amendment

- **Comment:** The Geneva Lake Conservancy recommended that the area locally referred to as the North Shore Woods, located along North Shore Drive in the Village of Fontana-on-Geneva Lake, be considered for inclusion in the Plan Amendment.

Response: The Commission staff investigated the site in 2009 and concluded that the quality and species diversity were sufficiently high to warrant inclusion in the Plan Amendment as a natural area of NA-3 status.

- **Comment:** The suggestion was made that a site in “Ozaukee County,” featuring an esker and dry-mesic upland deciduous ‘old growth’ woodland adjacent to an undeveloped glacial lake, be included in the Plan Amendment.

Response: This site, actually located in Washington County, was included in Table 64, page 228, of Planning Report Number 42 as “Myra Wetlands,” a natural area of NA-2 quality, and in Table 104, page 350, as “Myra Esker,” a geological area of GA-2 quality.

- **Comment:** It was suggested that one of the last Silurian limestone rock outcroppings along the Menomonee River in Milwaukee County, located on the east river bank, and south of and nearly adjacent to Mill Road, be included in the Plan Amendment.

Response: This site was included in Table 104, page 351, of Planning Report Number 42 as “Mill Road Reef,” a geological area of GA-3 quality.

- **Comment:** It was suggested that the final approach area north of Layton Avenue, aligned with runway 19 at General Mitchell International Airport and consisting of degraded mowed grassland, be included in the Plan Amendment as it supports populations of grassland nesting birds.

Response: While it is indeed apparent that grassland birds are using this artificial grassland for nesting, because of the potential conflict with low-flying aircraft, the Commission in consultation with the Wisconsin Department of Transportation, does not believe it would be prudent to encourage increased bird activity near or within airports by designating this area as a critical bird species habitat site.

- **Comment:** It was suggested that the Commission consider purchasing portions of the Hartland Marsh in Waukesha County so that pro-active land management practices such as controlled burning could be implemented.

Response: The Commission, while not an agency that purchases and manages conservation lands directly, does encourage properly managing open space areas such as the Hartland Marsh, even though the site is not of Regional natural area quality according to the criteria set forth in Planning Report Number 42.

- **Comment:** Grootemaat Woods is actually owned by the Village of Greendale, not the City of Greenfield, as listed in the Plan Amendment.

Response: The Commission will correct this error.

- **Comment:** The name of the site called “Carity Prairie” should be changed to better describe ecological conditions.

Response: The Commission is following the name assigned the site by the Milwaukee Area Land Conservancy, i.e., “Carity Prairie.”

- **Comment:** The beech woodland in Bender Park, located along the north side of Fitzsimmons Road, should be included in the Plan Amendment. It includes critical plant species and a vernal pond. The woodland south of the road should also be included.

Response: This site was included in Table 69, page 260, of Planning Report Number 42 as “Bender Park Woods—South,” a Critical Species Habitat area so classified because of the presence of the State-designated endangered bluestem goldenrod (*Solidago caesia*). However, the woodland south of the road was not included since it did not contain any critical species nor was it continuous with the delineated woods, separated from it by a road.

- **Comment:** Considering the fact that sites in the north half of Milwaukee County are extremely rare, suitable areas should be given close scrutiny. Specifically, a small but diverse woodland owned by a Catholic order of nuns near N. 76th Street that was described by Dr. James Levenson in his dissertation should be considered.

Response: The Commission staff, after reviewing the available data, agrees that this site (to be designated as “Convent Woods”), though small, is of sufficient quality to warrant inclusion in the Plan Amendment, and thus will be added as a natural area of NA-3 quality.

- **Comment:** Designation of the “Trestle Creek Woods” in St. Francis as a Critical Species Habitat area is encouraging. More areas near Seminary Woods Natural Area in St. Francis should be protected, including more open space owned by WE Energies, particularly areas planted to prairie (two comments).

Response: “Trestle Creek Woods” provides habitat for the State-designated endangered bluestem goldenrod (*Solidago caesia*), which automatically classifies it as a Critical Species Habitat area. However, the other open spaces mentioned do not meet the criteria for inclusion in the Natural Areas Plan, i.e., they do not support State-designated critical species, nor do they contain natural plant communities.

- **Comment:** There was a request that the Commission publish larger scale maps of the locations of natural areas and critical species habitat areas.

Response: Publication of larger scale maps indicating more specifically the locations of the more than 700 sites would be prohibitively expensive. In addition, publication of such maps may contribute to unwanted attention to these critical resources, resulting in unwanted trespass on private lands and over-collecting and other uses on public lands. Finally, the specific locations of critical species habitat sites related to State and Federal endangered and threatened species is protected by law.

- **Comment:** Interest was expressed in creating some process by which updates to the Natural Areas Plan could be accomplished in a shorter period of time, rather than a 10-year cycle.

Response: There is a general land use process through which the Commission updates plans, based on available funds. There is a possibility of an annual vetting process, with Committee and Bureau of Endangered Resources review. Changes in sites, and addition of new sites, could then be added to the Natural Areas Plan as part of that 10-year cycle. In addition, more frequent “interim” type updates to the plan could be addressed through amendments to the individual county park, recreation, and open space plans.

- **Comment:** There was a question as to whether there are minimum size criteria for ADID wetlands.

Response: There are no minimum size criteria for ADID wetlands in Southeastern Wisconsin.

Comments Received From Washington County Planning and Parks Department

- **Comment:** Maps and tables should have a date (at least the year) showing data currency.

Response: The year “2009” will be included in the title of all tables and maps in the Plan Amendment.

- **Comment:** Map 7 and map 35 in the draft Plan Amendment appear to be the same. It says Map 35 is ‘to be updated.’ When will the updated version be available?

Response: It is estimated that the final versions will be made available in the Fall of 2009.

- **Comment:** Supposedly, the natural area known as “Cedar-Sauk Low Woods” lies within both Washington and Ozaukee counties, yet in both Planning Report Number 42 and the Plan Amendment it is listed as being in Ozaukee County only. Which is correct?

Response: The protocol for the Commission for sites occurring across county boundaries is to identify them by the primary county only. This will prevent such multi-county sites from being tallied multiple times when total number of sites is calculated. However, the actual tables listing the sites also indicate the secondary county, plus the amount of acreage within that county.

- **Comment:** Table 18 in the draft Plan Amendment doesn’t list the Jackson Swamp State Natural Area as being in Section 17, or the Pike Lake Woods as being in Section 23. Are these errors?

Response: The final version of Table 18 will include these U.S. Public Land Survey Sections.

- **Comment:** It would be helpful if Tables 19 through 22 listed the original (1994) and new net acreages for natural areas and critical species habitat areas. Are all changes in these tables based on the original data in Planning Report Number 42?

Response: All changes in these tables reflect the original acreages as presented in Planning Report Number 42. Tables 19 through 22 of the Plan Amendment will be revised to include the original acreages.

- **Comment:** Table 21 of the draft Plan Amendment says that the boundaries of Kettle Moraine Drive Woods have been adjusted to include six additional acres. This site overlaps both Washington and Fond du Lac counties. Were the six acres added to Washington County, Fond du Lac County, or both?

Response: The additional acreage was located only in Washington County. Fond du Lac County is not located within the Region and is accordingly not addressed in this report update.

- **Comment:** Table 21 of the draft Plan Amendment states that the USH 41 Swamp has been changed to include 25 additional acres, but the notes explain there was a loss on the east boundary. Should it say “-25 acres” or should the notes say “Adjust boundary?”

Response: The Commission will revise the notes to read “Boundary adjusted.”

- **Comment:** Table 22 of the draft Plan Amendment lists a Critical Species Habitat (CSH) site called “Silver Lake Wetlands” in Section 27. The original Planning Report Number 42 also lists a CSH site called “Silver Lake” in Section 34. Are these the same sites?

Response: “Silver Lake” and “Silver Lake Wetlands” refer to two separate Critical Species Habitat areas. In the interest of clarification, the site in Section 27 will be changed to “Silver Lake Woods,” and the site in Section 34 will be changed to “Silver Lake Swamp.”

- **Comment:** Table 23 of the draft Plan Amendment listed the Wisconsin Department of Natural Resources as both the original and revised recommended owner of the Milwaukee River Floodplain Forest State Natural Area. Planning Report Number 42 (Table 109; page 386) lists the WDNR as the proposed acquisition agency. Should the revised ownership be corrected, or should the site not be listed in Table 23 at all?

Response: The Wisconsin Department of Natural Resources will continue as owner of the site. Table 23 will be revised accordingly.

Comments Received From The City of Muskego

- **Comment:** Big Muskego Lake was listed in Planning Report No. 42 as being of NA-3 quality. Because of the marsh’s extensive use by wildlife, including breeding populations of several critical bird species, it was suggested that the status of the site be re-evaluated.

Response: Following discussions with ecological and wildlife experts from the Wisconsin Department of Natural Resources, the Commission staff determined that the Big Muskego Lake should be re-classified as NA-2.

- **Comment:** It was suggested that Peters Woods in the City of Muskego be included in the report.

Response: Since there is present an active great blue heron rookery, and the heron is a State-designated special concern species, the site will be included as a Critical Species Habitat area.

- **Comment:** Reference was made to an extensive vegetation survey in the City of Muskego completed by Applied Ecological Services, and the recommendation was made that the Commission review the listed sites to determine whether any should be included in the Plan Amendment.

Response: The Commission staff reviewed the vegetation survey. Several sites were already included as new sites in the Plan Amendment. One new area, to be identified as Schroeder Woods, supports red trillium (*Trillium recurvatum*), a State-designated special concern species, and thus will be included as a Critical Species Habitat area. However, the majority of the sites listed, while perhaps of local interest, did not meet the standards for inclusion in the regional plan.

Verbal Comments Received During Open House Meetings Pertaining to Aspects of the Plan Amendment

- **Comment:** Landowner requested that the status of the Critical Species Habitat area located in the Town of Eagle listed in Planning Report Number 42 as “Holtz Oak Opening” be reconsidered as a natural area.

Response: Communication with knowledgeable staff of the Wisconsin Department of Natural Resources agreed that the status should be raised to NA-3, with the recommendation that it be raised to NA-2 after appropriate management to restore more of an oak savanna community. The site will be listed as NA-3 in the Plan Amendment.

- **Comment:** A previously undocumented population of the State-designated threatened kittentails (*Besseyia bullii*) on private lands near Hunters Lake in the Town of Ottawa was brought to the attention of the Commission staff.

Response: At the invitation of the landowner, the Commission staff investigated the site. A good-sized population of kittentails was found, and the site will be included in the Plan Amendment as the Pogodzinski Kittentails Site, a Critical Species Habitat area.

- **Comment:** Mr. Glenn A. Christiansen of the Pleasant Prairie Parks Commission verbally indicated to the Commission staff that he had identified two State-designated threatened plant species—wild quinine (*Parthenium integrifolium*) and tuberous Indian plantain (*Cacalia tuberosa*)—within the prairie remnant at the southwest corner of IH 94 and CTH C in the Village of Pleasant Prairie.

Response: This site had initially been considered by the Commission staff for inclusion as a natural area of NA-3 status, but subsequent disturbance by the WisDOT during upgrading of the intersection had apparently diminished the quality of the site. These two sightings will enable the site to be included as a Critical Species Habitat area in the Plan Amendment as the “CTH C Low Prairie Remnant.”

Additional Verbal Comments Made at the Informational Meetings, But Requiring No Specific Response

Riveredge Nature Center, Ozaukee County (April 21, 2009)

1. One couple remarked that they learned much from the hearing; specifically, they are interested in preserving a Critical Species Habitat area they own in Washington County (“St. Anthony Maple Woods”)
2. An individual stated “preserve as much land as you can”

Boerner Botanical Gardens, Milwaukee County (April 22, 2009)

3. An individual is opposed to selling any more of the Milwaukee County Grounds for development, and for demonstration logging
4. An individual stated thanks for including Seminary Woods and some adjacent lands for protection
5. A couple stated thanks for including the Trestle Creek Woods (near Seminary Woods) as a Critical Species Habitat area and that more open WE Energies land should be preserved in the vicinity
6. An individual stated thanks for the updated Plan, especially for including the Trestle Creek CSH area and also stated that more WE Energies land should be preserved
7. An individual stated “buy all of the land”

Kenosha County Center (April 28, 2009)

No comments received

Kettle Moraine State Forest—Southern Unit, Forest Headquarters, Waukesha County (April 30, 2009)

1. The Friends of the Mukwonago River gave full support for the revised Natural Areas Plan
2. The Waukesha County Land Conservancy gave full support for the Plan and its update, which is used extensively in their land protection efforts

PUBLIC INFORMATIONAL MEETING DISCUSSIONS

Questions of clarification were entertained during and following the meeting presentations. The substantial subjects of group discussion at the public informational meetings were often not offered as nor accompanied by formal comments. However, both the tenor and content of these discussions were given careful consideration toward the preparation of a final recommended plan.

Topics addressed in the group setting associated with the respective public informational meeting presentations follow:

Riveredge Nature Center, Newburg, April 21, 2009

- Distinction between levels of natural area significance, and how are they determined.
- The Advanced Identification of Disposal Areas (ADID) in wetlands program.
- SEWRPC website location where map products shown in the evening's PowerPoint presentation can be found.
- Procedures by which Section 404 guidelines of the Clean Water Act may be applied.
- What groups oppose and/or reasons which may exist for resisting the ADID wetland designation.
- The possibility of amending the Natural Areas Plan on an ongoing basis so that gaps of 10 or more years may be avoided in applying new information and/or priorities.
- Whether there was a written process to streamline efforts aimed at identifying or refining significant natural areas.
- Whether there was a copy of the 1997 natural areas plan available, and how it could be accessed for review.
- Whether there was a relationship between the Regional Natural Areas Plan and SEWRPC involvement with Lake Michigan waters.
- Given that Ozaukee County was first in the process for this series of public informational meetings, the means by which any additional natural area sites of significance may be included in the plan if local representatives wish to propose such sites.
- The field identification process for wetland boundaries; the importance of securing the landowner's invitation to proceed with the wetland delineation.

Boerner Botanical Gardens, Hales Corners, April 22, 2009

- Regarding the estimated cost distribution for land acquisition under the plan, whether there were instances of higher and lower actual dollar contributions than the 6 percent indicated for local government.

- The legal status of the Regional Natural Areas Plan, whether local governments ratify it, and any flexibility of recommendations for public or private status of preserved lands.
- Status of the plan in making local governments eligible for Wisconsin's Stewardship Fund and/or other funding sources regarding the acquisition of key areas.
- The relationship of field verification to determine how close map lines are to actual boundaries regarding the determination of ADID wetlands.
- Progression of the Regional Natural Areas Plan to a published document; and means of verification that maps actually reflect what is on the ground.
- Provisions of Chapter NR117 of the State *Administrative Code* with respect to shoreland wetlands, and protection of wetlands less than five acres in size.
- The shoreland zone extending inland 300 feet from navigable streams and 1,000 feet from lakes with respect to shoreland wetland zoning, and possible other protections for a 300 foot streamside buffer zone.
- Milwaukee County parkland work with respect to wetland protection in communities, like Franklin, which may regulate more stringently than required by the State *Administrative Code*.

Kenosha County Center, Bristol, April 28, 2009

- Whether the Lake Michigan shoreline fits the definition of a natural area regardless of development status.
- The possible inclusion for acquisition of an environmental corridor in the Village of Pleasant Prairie that had been identified in a 1995 Master Plan for preservation, but which encountered opposition at the time.
- The areal extent necessary for a grassland to be included in the plan for protection.
- Reasons why 298 species were listed as uncommon in the Region in the 1997 Regional Natural Areas Plan, whereas 401 species are listed as uncommon now.
- Regarding ADID wetlands, whether there is a size limit on field-delineated wetlands to be regulated.
- The prospects of regulating widespread or smaller wetlands, given the present regulation of shoreland wetlands five acres or greater in size in Walworth County.
- Potential conflicts between active and passive uses of natural areas.
- The issue of bike trails through designated natural areas.

Kettle Moraine State Forest Headquarters, Eagle, April 30, 2009

- When a wetland is not identified within an environmental corridor and perhaps should have been, whether that would constitute an ADID wetland.
- Clarification regarding 82 percent of estimated plan implementation costs being associated with recommendations that have been made in prior State, regional, county, and local plans.

- Whether ADID protects wetland natural areas, and whether there are other programs to protect non-wetland woodlands.
- When a field delineation of an environmental corridor shows the wetland boundary farther out (more extensive) than on a map, whether the prospect of such a finding can be part of policy comments taken now regarding ADID review (since the distance between 50 feet and 75 feet, for example, under stormwater guidelines is significant).
- The timing of plan completion and adoption so that it is available for use.
- Possibilities for land trusts to use the plan to leverage or make a case for land preservation grants.
- How to access detailed maps regarding ADID wetlands.
- The extent to which a county or local municipality may have jurisdiction over management of an ADID wetland, such as for burning.
- Possible timing for the next version of the Regional Natural Areas Plan, given that the new plan under review came about because of a request.
- Ways in which the Commission may work with the Paradise Valley project.
- Since critical species habitat areas did not seem to have received much protection since the previous version of the plan, the ways by which better protection can be achieved.
- Opportunities for entities to find out that they own and/or manage a natural area of special concern, reflecting on a report that a nature center was listed without representatives being aware.
- The relationships between 2010 comprehensive planning and getting information out so that preliminary natural areas recommendations can be factored-in, and whether any conflicts exist between a local plan and the Regional Natural Areas Plan.



The Purple pitcher plant (*Sarracenia purpurea*) is Wisconsin's largest carnivorous plant. Its modified leaves or pitchers are used as a "pitfall" trap to capture its prey. While not an endangered or threatened plant in Wisconsin, the pitcher plant is restricted to bogs and a few fens in southeastern Wisconsin. Native plants, such as the pitcher plant, contribute to the Region's biodiversity. The above photograph was taken at the Beulah Bog State Natural Area located in the Town of East Troy, Walworth County.

Source: Steve D. Eggers.

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Section 10

RECOMMENDED PLAN

INTRODUCTION

The recommended Natural Areas Plan Amendment as detailed in Sections 1 through 9 represented the information as presented at the public informational hearings and submitted to the public and public agencies for comment. Recommendations and suggestions resulting from those hearings and from the staff of the Wisconsin Department of Natural Resources were given due consideration by the Commission staff and the advisory committee, and appropriate changes were made to the Plan Amendment.

This section presents the post-hearing updated Plan Amendment, reflecting changes made subsequent to the public hearings. Included are revised tables and maps that reflect the final natural areas and critical species habitat inventory.

SUMMARY OF UPDATES TO THE ORIGINAL PLAN

Recommendations received during the public informational hearings comment period, and additional field surveys by the Commission staff subsequent to the hearings, have resulted in the addition of three new sites of NA-3 quality, totaling 73 acres (Table 29), and nine new Critical Species Habitat sites, totaling 371 acres (Table 30), to the regional inventory (Map 38) as presented at the hearings. The three natural areas are all privately owned; six of the critical species habitat areas are private, two are under public ownership, and one is partially under public ownership.

In addition, new and more detailed information resulted in the re-classification of four sites listed in the original Natural Areas Plan and as presented at the public hearings (Table 31). Two sites originally of NA-3 quality were elevated to NA-2, and two critical species habitat sites were re-classified to NA-3.

Because of these additional sites and re-classification of other sites, the number of sites identified since preparation of Planning Report Number 42, and their acreage, as originally presented in Table 9 of the draft Plan Amendment, has also been revised (Table 32).

Through updates as set forth in this amendment document, the total number of natural areas and critical species habitat sites, and their areal extent, have been revised accordingly (Table 33). The total number of NA-1 quality sites has increased from 40 to 42, and the associated area increased from 8,700 acres to 11,220 acres. The total number of NA-2 quality sites has increased from 122 to 130, and the associated area has increased from 21,191 acres to 24,154 acres. The total number of NA-3 quality sites has increased from 285 to 322, and the associated

Table 29

NATURAL AREAS ADDED TO REGIONAL NATURAL AREAS INVENTORY SINCE PUBLIC INFORMATIONAL HEARINGS

Site Name	Location	Classification	Size (acres)	Current Ownership	Proposed Protective Ownership
Convent Woods	Milwaukee County T8N R21E Section 10 City of Milwaukee	NA-3	9	Private	Private conservancy organization
North Shore Woods	Walworth County T1N R16E Section 11 Village of Fontana-on-Geneva Lake	NA-3	38	Private	Local unit of government
Moorland Road Woods and Ponds	Waukesha County T6N R20E Section 23 City of New Berlin	NA-3	26	Private	Local unit of government

Source: SEWRPC.

Table 30

CRITICAL SPECIES HABITAT AREAS ADDED TO REGIONAL NATURAL AREAS INVENTORY SINCE PUBLIC INFORMATIONAL HEARINGS

Site Name	Location	Size (acres)	Current Ownership	Proposed Protective Ownership	Critical Plant or Animal Species
CTH C Low Prairie Remnant	Kenosha County T1N R21E Section 13 Village of Pleasant Prairie	5	Village of Pleasant Prairie	Village of Pleasant Prairie	<i>Cacalia tuberosa</i> (T) (prairie Indian plantain) <i>Parthenium integrifolium</i> (T) (wild quinine)
Wind Point Ravine Woods	Racine County T4N R23E Sections 21, 22, 27 Village of Caledonia and Village of Wind Point	14	Private	Private conservancy organization	<i>Trillium recurvatum</i> (SC) (red trillium)
Davies Marlow Grassland	Waukesha County T6N R18E Section 2 Town of Genesee	62	Private	Waukesha County	<i>Ammodramus henslowii</i> (T) (Henslow's sparrow)
Jericho Creek Oak Woods	Waukesha County T5N R17E Section 24 Town of Eagle	69	Private	Private conservancy organization	<i>Besseyia bullii</i> (T) (kittentails)
Koller Farms Kittentails Site	Waukesha County T6N R17E Section 13 Town of Ottawa	1	Private	--	<i>Besseyia bullii</i> (T) (kittentails)
Pogodzinski Kittentails Site	Waukesha County T6N R17E Section 11 Town of Ottawa	1	Private	--	<i>Besseyia bullii</i> (T) (kittentails)
Peters Oak Woods	Waukesha County T5N R20E Section 33 City of Muskego	23	Wisconsin Department of Transportation	State of Wisconsin	<i>Ardea herodias</i> (SC) (great blue heron)
Schroeder Woods	Waukesha County T5N R20E Sections 5, 6 City of Muskego	35	Private	Private conservancy organization	<i>Trillium recurvatum</i> (SC) (red trillium)
Steinacker Woods	Waukesha County T7N R20E Section 5 City of Brookfield	161	City of Brookfield, Waukesha County, and private	City of Brookfield and Waukesha County	<i>Ardea herodias</i> (SC) (great blue heron)

Source: SEWRPC.

Table 31

**NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS
CHANGING CLASSIFICATION SINCE PUBLIC INFORMATIONAL HEARINGS**

Site Name	Location	Former Classification	Revised Classification	Reasons for Upgrading
Dominican Ravine	Racine County T4N, R23E Section 21 Village of Caledonia	Critical Species Habitat	NA-3	Additional surveys revealed greater species diversity and higher ecological quality
Bark River Marsh	Waukesha County T7N, R17E Section 23 Town of Summit	NA-3	NA-2	Additional surveys revealed greater species diversity and higher ecological quality
Holtz Oak Opening	Waukesha County T5N, R17E Sections 12, 13 Town of Eagle	Critical Species Habitat	NA-3	Re-evaluation of importance of site as a rare plant community type, combined with site management by Land Trust
Muskego Lake Marsh	Waukesha County T5N, R20E Sections 13, 14, 15, 21, 22, 23, 27, 28, 33, 34 City of Muskego	NA-3	NA-2	Improved wildlife habitat through water level management

Source: SEWRPC.

Table 32

**SUMMARY OF NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS
IDENTIFIED SINCE PREPARATION OF SEWRPC PLANNING REPORT NUMBER 42**

Classification Code ^a	County							
	Kenosha		Milwaukee		Ozaukee		Racine	
	Number of Sites	Area (acres)	Number of Sites	Area (acres)	Number of Sites	Area (acres)	Number of Sites	Area (acres)
NA-1	--	--	--	--	--	--	--	--
NA-2	1	12	1	37	1	31	1	94
NA-3	2	173	13	413	--	--	1	72
CSH	18	180	40	503	10	240	10	115
Total	21	365	54	953	11	271	12	281

Classification Code	County						Regional Totals	
	Walworth		Washington		Waukesha			
	Number of Sites	Area (acres)	Number of Sites	Area (acres)	Number of Sites	Area (acres)	Number of Sites	Area (acres)
NA-1	--	--	--	--	--	--	--	--
NA-2	2	28	--	--	--	--	6	202
NA-3	6	285	5	393	14	568	41	1,904
CSH	16	2,395	9	294	41	1,317	143	5,044
Total	24	2,708	14	687	55	1,885	190	7,150

^aNA-1 indicates natural area of statewide or greater significance.
 NA-2 indicates natural area of regional or countywide significance.
 NA-3 indicates natural area of local significance.
 CSH indicates critical species habitat area.

Source: SEWRPC.

Table 33

**SUMMARY OF KNOWN NATURAL AREAS AND CRITICAL SPECIES
HABITAT AREAS IN SOUTHEASTERN WISCONSIN: 2009**

Natural Area Category or Characteristic	County							Region
	Kenosha	Milwaukee	Ozaukee	Racine	Walworth	Washington	Waukesha	
NA-1 Areas								
Number of Sites	6	1 ^a	6 ^b	7	7 ^c	8	9 ^d	42
Combined Area (acres)	617	33	2,783	614	1,852	3,267	2,054	11,220
Percent of Area of County or Region	0.4	<0.1	1.8	0.3	0.5	1.2	0.6	0.7
Mean Size (acres)	103	33	464	88	264	408	228	267
NA-2 Areas								
Number of Sites	17 ^e	10 ^f	12	20 ^g	14 ^h	29	33 ⁱ	130
Combined Area (acres)	1,903	766	1,718	2,886	2,779	5,715	8,387	24,154
Percent of Area of County or Region	1.1	0.5	1.1	1.3	0.8	2.1	2.3	1.4
Mean Size (acres)	112	77	143	144	198	197	254	186
NA-3 Areas								
Number of Sites	19	45 ^j	32 ^k	33 ^l	65 ^m	57 ⁿ	80 ^o	322
Combined Area (acres)	1,272	2,125	3,156	2,172	5,510	7,870	6,925	29,030
Percent of Area of County or Region	0.7	1.4	2.1	1.0	1.5	2.8	1.9	1.7
Mean Size (acres)	67	47	99	66	85	138	87	90
Total Natural Areas								
Number of Sites	42	56	50	60	86	94	122	494
Combined Area (acres)	3,792	2,924	7,657	5,672	10,141	16,852	17,366	64,404
Percent of Area of County or Region	2.2	1.9	5.1	2.6	2.8	6.1	4.8	3.8
Mean Size (acres)	90	52	153	94	115	179	142	130
Critical Species Habitat Areas								
Number of Sites	33 ^p	55	17	37	39	21	71	271
Combined Area (acres)	5,309	796	729	1,426	3,707	615	7,074	19,656
Percent of Area of County or Region	3.0	0.5	0.5	0.7	1.0	0.2	2.0	1.2
Mean Size (acres)	166	14	43	38	95	29	100	72

Note: Because some natural areas are located within more than one county, regional totals may differ from the sums of county totals.

^a One NA-1 area shared with Ozaukee County.

^b One NA-1 area shared with Milwaukee County.

^c One NA-1 area shared with Waukesha County and one NA-1 area extends into Jefferson County.

^d One NA-1 area shared with Walworth County.

^e One NA-2 area shared with Racine County.

^f Two NA-2 areas shared with Racine County.

^g Two NA-2 areas shared with Milwaukee County and one NA-2 area shared with Walworth County.

^h One NA-2 area shared with Racine County.

ⁱ One NA-2 area shared with Racine County.

^j One NA-3 area shared with Racine County and two NA-3 areas shared with Waukesha County.

^k One NA-3 area shared with Washington County and one NA-3 area extends into Sheboygan County.

^l One NA-3 area shared with Milwaukee County, three NA-3 areas shared with Walworth County, and one NA-3 area shared with Waukesha County.

^m Two NA-3 areas shared with Waukesha County and three NA-3 areas shared with Racine County.

ⁿ One NA-3 area shared with Ozaukee County and one NA-3 area extends into Fond du Lac County.

^o Two NA-3 areas shared with Milwaukee County, two NA-3 areas shared with Walworth County, and one NA-3 area shared with Racine County.

^p One Critical Species Habitat area shared with Racine County.

Source: SEWRPC.



Populations of the White lady slipper orchid (*Cypripedium candidum*), a State of Wisconsin-designated threatened plant, have significantly increased in several of southeastern Wisconsin's natural area and critical species area sites as a result of targeted shrub control and burn management activities. This spring blooming orchid is generally restricted to calcareous fens and low prairies in Wisconsin. The above photograph was taken in the Scuppernon River Habitat Area near Eagle, Waukesha County, Wisconsin.

Source: Ronald C. Kurowski.

area from 27,758 acres to 29,030 acres. Thus, the total number of natural areas identified in the Region has increased from 447 to 494 sites, and the associated area from 57,649 acres to 64,404 acres. The number of critical species habitat sites has increased from 141 to 271 sites, and the associated area from 14,118 acres to 19,656 acres. In addition, one additional geological area of local significance (GA-3), encompassing 47 acres, has also been included in the updated inventory. Finally, while several sites have been diminished in areal extent, only three natural areas of local significance (NA-3)—Harley-Davidson Woods in Milwaukee County, Mueller Lake Woods in Washington County, and CTH D Railroad Prairie in Waukesha County—and three critical species habitat areas—Breakers Woods, Ives Grove Prairie Remnant, and Krieser Fen, all in Racine County—have been entirely lost to development or other landscape changes.

Table 34 summarizes the changes that have occurred by county, including newly identified areas, various classification changes that are proposed, and the number of sites that, through mapping revisions, have had their areal extent revised.

Since the public informational meetings, 21 additional Natural Area and Critical Species Habitat sites have been placed in protective ownership. Tables 35 and 36 represent a revision of Tables 3 and 4, respectively, of the draft Plan Amendment, incorporating the latest available information pertaining to protective ownership of sites.

UPDATED RECOMMENDED PLAN

Within the framework of the objectives, principles, and standards, an updated protection and management plan consisting of three plan elements—the first dealing with natural areas and critical species habitat sites; the second dealing with significant geological sites; and the third dealing with significant archaeological sites—was developed. The major recommendations of the updated plan are summarized below:

Natural Area and Critical Species Habitat Plan Element

The inventory phase of the study resulted in the identification of 494 Natural Area sites as well as 271 Critical Species Habitat sites located wholly or partially outside the boundaries of all identified Natural Areas. The plan update recommends that each of these 765 sites be protected and preserved to the maximum extent practicable as urban and rural development in the Region proceeds. The plan update further recommends that 677 sites, or 88 percent of the total, be placed in public or private protective ownership and that the remaining 88 sites be protected, insofar as it is possible, without protective ownership. Plan recommendations with respect to each of the identified Natural Area sites and Critical Species Habitat sites are presented by county on Maps 39 through 45, and are listed and described in detail by county in Tables 37 through 43. The plan recommends the following priorities for public-interest acquisition, given existing constraints on the financial resources of the public and private agencies proposed to be responsible for such acquisition:

1. The highest acquisition priority be accorded to Natural Area sites of statewide or greater significance (NA-1 sites). All 42 of the identified NA-1 sites are recommended for protective ownership under the plan. The 42 NA-1 sites encompass 17.5 square miles, or about 0.7 percent of the total area of the Region. Of the 17.5-square-mile area concerned, about 12.3 square miles, or 70 percent, have already been placed under protective public or private conservation ownership. This includes five sites where protective

Table 34

SUMMARY OF PROPOSED UPDATES TO SEWRPC PLANNING REPORT NUMBER 42

Site	County														Region	
	Kenosha		Milwaukee		Ozaukee		Racine		Walworth		Washington		Waukesha			
Newly Identified Areas																
--	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres
Natural Areas	3	185	14	450	1	31	2	166	8	313	5	393	14	568	47	2,106
Critical Species Habitat	18	180	40	503	10	240	10	115	16	2,395	9	294	41	1,317	143	5,044
Total	21	365	54	953	11	271	12	281	24	2,708	14	687	55	1,885	190	7,150
Existing Areas Changing Classification^a																
--	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres
NA to X	0	0	1	11	0	0	0	0	0	0	1	97	1	2	3	110
NA to CSH	0	0	2	103	0	0	1	72	0	0	0	0	0	0	3	175
NA to NA	0	0	0	0	1	440	0	0	0	0	4	2,071	3	3,248	8	5,759
CSH to X	0	0	0	0	0	0	3	8	0	0	0	0	0	0	3	8
CSH to NA	0	0	1	108	1	67	1	18	0	0	0	0	3	145	6	338
Total	0	0	4	222	2	507	5	98	0	0	5	2,168	7	3,395	23	6,390
Boundary Revisions^b																
--	No	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres
Natural Areas	18	+79	27	+168	31	+214	25	-95	33	+402	46	+527	61	+3,043	242	+4,338
Critical Species Habitat	13	-243	9	+8	6	+193	27	+135	16	-35	7	+4	27	+786	103	+848
Total	31	-164	36	+176	37	+407	52	+40	49	+367	53	+531	88	+3,829	345	+5,186

^a X' refers to non-natural area or non-critical species habitat status under the updated plan.

^b Boundary Revision acres refers to net gain or loss through revised boundaries.

Source: SEWRPC.

Table 35

PROGRESS IN ACQUISITION OF NATURAL AREA ACREAGE AS RECOMMENDED IN SEWRPC PLANNING REPORT NUMBER 42

Classification	Total Acreage Proposed to be Placed Under Protective Ownership	Acreage Proposed to be Acquired for Protection	Acreage Acquired for Protection Subsequent to Preparation of PR-42	Percent Acquired
NA-1	8,691	2,862	186	6.5
NA-2	21,191	10,672	1,132	10.6
NA-3	26,464	16,947	920	5.4
Subtotal	56,346	30,481	2,238	7.3
Critical Species Habitat	13,470	3,771	30	0.8
Total	69,816	34,252	2,268	6.6

Source: SEWRPC.

acquisition of the entire site has been completed. Under the plan, the remaining 5.2 square miles would also be placed under protective ownership to ensure permanent preservation. This includes the expansion of such ownership for 33 sites where protective acquisition of a part of the site has been completed, and the acquisition of four sites where protective acquisition has not yet been initiated.

- The second-highest acquisition priority be accorded to those Natural Areas of countywide or regional significance (NA-2 sites) and those Natural Areas of local significance (NA-3 sites) which lie within Commission-delineated primary environmental corridors; which support endangered, threatened, or special concern plant or animal species; or which have already been at least partially placed in public or private protective ownership. Included in this priority group are all 130 of the NA-2 sites, plus 305 of the identified 322 NA-3 sites. The acreage within the 435 sites recommended for acquisition encompasses about 81.5 square miles, or about 3 percent of the total area of the Region. Of that total, about 39 square miles, or 47 percent, have already been placed under protective public or private conservation ownership.

Table 36

NATURAL AREA (NA) AND CRITICAL SPECIES HABITAT AREA (CSH) SITES PLACED WHOLLY OR PARTIALLY UNDER PROTECTIVE OWNERSHIP SINCE PREPARATION OF SEWRPC PLANNING REPORT NUMBER 42

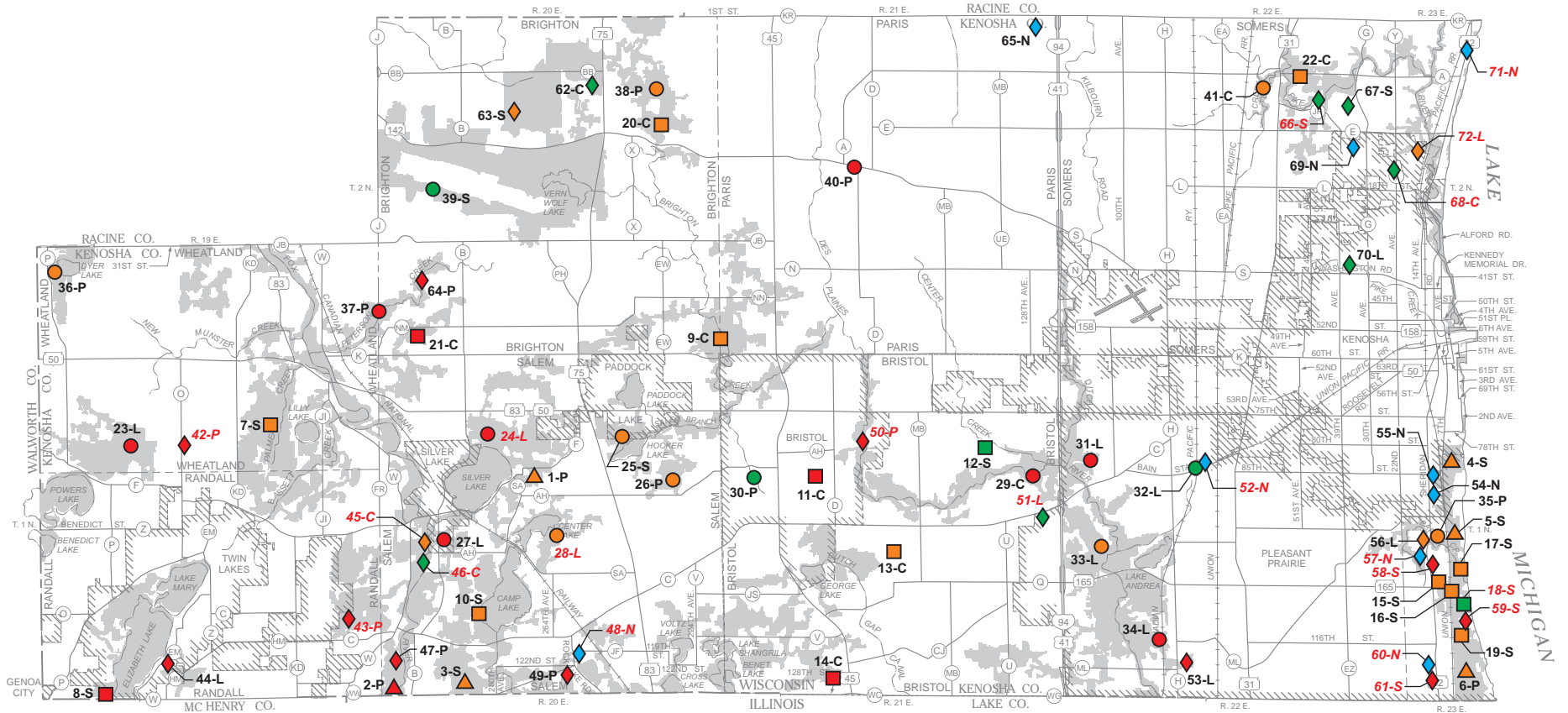
Site Name	County	Rank	Additional Area Under Protective Ownership (acres)	Agency of Acquisition
Chiwaukee Prairie State Natural Area.....	Kenosha	NA-1	9	The Nature Conservancy
Elm Island Bog.....	Racine	NA-1	54	Racine County
Germantown Swamp.....	Washington	NA-1	71	Milwaukee Metropolitan Sewerage District
Kurtz Woods State Natural Area.....	Ozaukee	NA-1	14	Ozaukee Washington Land Trust
Lulu Lake State Natural Area.....	Walworth	NA-1	16	Wisconsin Department of Natural Resources
Mukwonago Fen, Sedge Meadow, and Tamarack Relict.....	Waukesha	NA-1	38	Wisconsin Department of Natural Resources
Big Bend Wet-Mesic Woods (including Martins Woods).....	Waukesha	NA-2	116	Waukesha Land Conservancy, Waukesha County, Town of Vernon, and Village of Big Bend
Blue Hills Woods.....	Washington	NA-2	20	Ozaukee Washington Land Trust
Falk Fen.....	Waukesha	NA-2	96	Waukesha Land Conservancy
Gilbert Lake Wetlands.....	Washington	NA-2	73	Cedar Lakes Conservation Foundation and Wisconsin Department of Natural Resources
Holy Hill Woods.....	Washington	NA-2	60	Wisconsin Department of Natural Resources
Huiras Lake Swamp.....	Ozaukee	NA-2	103	Ozaukee Washington Land Trust
Little Cedar Lake Wetlands.....	Washington	NA-2	126	Cedar Lakes Conservation Foundation
Menomonee Falls "Tamarack" Swamp.....	Waukesha	NA-2	141	Waukesha Land Conservancy
Milwaukee River Mesic Woods.....	Ozaukee	NA-2	55	Ozaukee County
Muth Woods.....	Washington	NA-2	21	Ozaukee Washington Land Trust
Tichigan Marsh.....	Racine	NA-2	42	Wisconsin Department of Natural Resources
Wind Lake Tamarack Swamp.....	Racine	NA-2	108	Wisconsin Department of Natural Resources
Cedar Grove Swamp.....	Ozaukee	NA-3	2	U.S. Fish and Wildlife Service
Cedar-Sauk Low Woods.....	Ozaukee	NA-3	36	Wisconsin Department of Natural Resources
CTH ZC Lowlands.....	Waukesha	NA-3	188	Waukesha Land Conservancy
Eagle Centre Oak Opening.....	Waukesha	NA-3	20	Waukesha Land Conservancy
Fellenz Hardwood Swamp.....	Washington	NA-3	58	Ozaukee Washington Land Trust
Fitzsimmons Road Woods.....	Milwaukee	NA-3	24	Milwaukee Area Land Conservancy
Five Corners Swamp.....	Ozaukee	NA-3	18	Wisconsin Department of Natural Resources
Grafton Woods.....	Ozaukee	NA-3	18	Ozaukee Washington Land Trust
Hansen's Lake.....	Ozaukee	NA-3	8	Ozaukee Washington Land Trust
Island Woods.....	Walworth	NA-3	34	Kettle Moraine Land Trust
Lion's Den Gorge.....	Ozaukee	NA-3	11	Ozaukee County
Malek Wetland.....	Waukesha	NA-3	48	The Nature Conservancy
Nelson Woods.....	Waukesha	NA-3	14	Waukesha Land Conservancy
New Berlin Woods.....	Waukesha	NA-3	35	City of New Berlin
Oconomowoc Swamp.....	Waukesha	NA-3	70	Waukesha Land Conservancy and City of Oconomowoc
Porter Low Woods.....	Waukesha	NA-3	48	Waukesha County
Sawyer Road Sedge Meadow.....	Waukesha	NA-3	35	Waukesha Land Conservancy
Slinger Upland Woods.....	Washington	NA-3	140	Wisconsin Department of Natural Resources and Cedar Lakes Conservation Foundation
Solar Heights Swamp.....	Ozaukee	NA-3	16	City of Mequon
Tabor Woods.....	Racine	NA-3	20	Caledonia Conservancy
Triple Woods.....	Ozaukee	NA-3	22	City of Mequon
USH 41 Swamp.....	Washington	NA-3	55	Milwaukee Metropolitan Sewerage District and Village of Germantown
Carol Beach Prairies ^a	Kenosha	NA-2 NA-3 CSH	74	Wisconsin Department of Natural Resources
Caledonia Sanitary Sewer Right-of-Way.....	Racine	CSH	5	Caledonia Conservancy
Jackson Woods.....	Washington	CSH	25	Village of Jackson

^aThis general category includes acreage acquired by the Wisconsin Department of Natural Resources encompassing several natural areas, critical species habitat areas, and other sites in the area.

Source: SEWRPC.

Map 39

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN KENOSHA COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	(NONE)	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	(NONE)	◆

RECOMMENDED OWNERSHIP KEY:
 S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP
 RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 37)

28-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 37)

■ PRIMARY ENVIRONMENTAL CORRIDORS

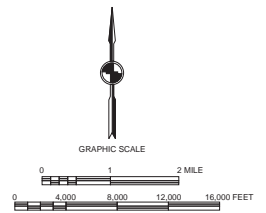


Table 37

KNOWN NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IN KENOSHA COUNTY: 2009

Map 39 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
1	Silver Lake Bog State Natural Area	NA-1 (SNA)	T1N, R20E Section 16 Town of Salem	Silver Lake Sportsmen's Club and other private	18	Lacking many of the typical northern bog species, this area nevertheless remains one of the better acid bogs in the Region. Few bogs of this quality occur this far south. Typical species include tamarack, pitcher plant, round-leaved sundew, cranberry, winterberry, and bog buckbean
2	Stopa Fen	NA-1	T1N, R20E Section 31 Town of Salem	Private	9	High-quality fen with both seeping and bubbling springs, located adjacent to the Fox River. A large number of unusual species are present, such as beaked spike-rush (<i>Eleocharis rostellata</i>), tussock bulrush (<i>Scirpus cespitosus</i>), Ohio goldenrod (<i>Solidago ohioensis</i>), false asphodel (<i>Tofieldia glutinosa</i>), and common bog arrow-grass (<i>Triglochin maritima</i>). Threatened by ski-hill operations
3	Peat Lake State Natural Area	NA-1 (SNA)	T1N, R20E Section 32 Town of Salem	Department of Natural Resources and private	140	One of the few undeveloped lakes in Kenosha County, isolated from roads and houses. Shallow and somewhat alkaline, it is bordered by a wide belt of shallow marsh and sedge meadow. Important nesting and feeding refuge for waterfowl
4	Kenosha Sand Dunes and Low Prairie	NA-1 (SNA)	T1N, R23E Sections 7, 8 City of Kenosha	The Nature Conservancy, City of Kenosha, and other private	99	One-half mile of Lake Michigan frontage containing well-developed dunes and dune succession patterns (fore dunes to swale to wet prairie). The dunes are disturbed by off-road vehicle use, and the shore has been riprapped. An ancient hardwood forest lies beneath the dunes. This is one of the few dune systems in Southeastern Wisconsin. Several uncommon species are present, including sea rocket (<i>Cakile edentula</i>), sand reed (<i>Calamovilfa longifolia</i>), seaside spurge (<i>Euphorbia poly-gonifolia</i>), common bugseed (<i>Corispermum hyssopifolium</i>), smooth phlox (<i>Phlox glaberrima</i>), marsh blazing-star (<i>Liatris spicata</i>), and grass-leaved rush (<i>Juncus marginatus</i>)
5	Carol Beach Low Prairie and Panne State Natural Area	NA-1 (SNA)	T1N, R23E Sections 18, 19 Village of Pleasant Prairie	Department of Natural Resources, Village of Pleasant Prairie, and private	43	A rich low prairie and calcareous fen on dune-and-swale topography. A number of rare plant species, including the State-designated endangered smooth phlox (<i>Phlox glaberrima</i>), are present

Table 37 (continued)

Map 39 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
6	Chiwaukee Prairie State Natural Area	NA-1 (SNA)	T1N, R23E Sections 31, 32 Village of Pleasant Prairie	Department of Natural Resources, The Nature Conservancy, University of Wisconsin-Parkside, and private protection includes conservation easement	308	Extremely rich prairie and marsh on gentle swell-and-swale topography created when the level of glacial Lake Michigan was lowered in stages. The resulting different micro-environments help support great species diversity. Over 400 plant species have been documented in the prairie, some of which are very rare in the State. Scattered oaks in portions of the site give it a savanna-like aspect locally. An incomparable site, it is a National Natural Landmark
7	New Munster Shrub-Carr and Tamarack Relict	NA-2 (SNA)	T1N, R19E Sections 2, 3, 10, 11 Town of Wheatland	Department of Natural Resources and private	384	Wetland complex of shrub-carr, sedge meadow, relict tamaracks, and stream, with an upland dry-mesic wooded island. Site is recovering from past disturbance. Some northern relicts, such as winterberry, yellow birch, and starflower are present. Many species of nesting birds use the area
8	Elizabeth Lake Lowlands	NA-2	T1N, R19E Section 31 Town of Randall Section 32 Village of Twin Lakes	Private	48	Good-quality wetland complex at the southwest end of Elizabeth Lake, consisting of sedge meadow, shallow marsh, and shrub-carr. The wetland continues south into Illinois
9	Harris Marsh and Oak Woods	NA-2	T1N, R20E Section 1 Town of Salem T2N, R20E Section 36 Town of Brighton T2N, R21E Section 31 Town of Paris	University of Wisconsin-Parkside and private	237	A large, good-quality marsh adjacent to Brighton Creek. A grazed former oak opening forms the eastern upland border
10	Camp Lake Marsh	NA-2	T1N, R20E Sections 20, 21, 28, 29, 32, 33 Town of Salem	Department of Natural Resources and private	292	Deep and shallow marsh dominated by cattails and softstem bulrush. The lake itself is especially rich in aquatic plant species, including a large population of ditch-grass (<i>Ruppia maritima</i>), a coastal plain plant of brackish waters. The marsh has been extensively ditched
11	Merkt Woods	NA-2	T1N, R21E Sections 8, 17 Village of Bristol	Private	83	A relatively large, good-quality dry-mesic woods, dominated by oaks but with numerous smaller ashes, basswoods, and yellow-bud hickories. The ground flora is diverse. One of the larger intact woods in this part of the Region
12	Benedict Prairie	NA-2	T1N, R21E Section 11 Town of Bristol	University of Wisconsin-Milwaukee	6	A small, but rich, wet-mesic to mesic prairie remnant located along an abandoned railway right-of-way. The site is burned periodically to reduce weedy invaders
13	Bristol Woods	NA-2	T1N, R21E Sections 21, 22 Town of Bristol	Kenosha County and private	181	The largest block of woods remaining in this part of the Region. This is a rich and diverse xeric to dry-mesic woods that is recovering from past grazing and selective cutting. Important as nesting habitat for forest-interior breeding birds

Table 37 (continued)

Map 39 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
14	Mud Lake Sedge Meadow	NA-2	T1N, R21E Sections 32, 33 Town of Bristol	Private	55	Good-quality wetland complex consisting of shallow marsh, sedge meadow, low prairie, fresh (wet) meadow, and shrub-carr. Species diversity is good, including a number of uncommon ones
15	104 th Street Mesic Prairie	NA-2	T1N, R23E Section 19 Village of Pleasant Prairie	Department of Natural Resources and private	10	Good-quality patch of mostly Mesic prairie, with good species diversity. Critical plant species are present
16	Carol Beach Prairie	NA-2	T1N, R23E Sections 19, 20, 29, 30 Village of Pleasant Prairie	Department of Natural Resources, Village of Pleasant Prairie, and private	71	A rich complex of low to dry prairie, with fresh (wet) meadow, sedge meadow, shrub-carr, and shallow marsh communities on dune-and-swale topography. Critical plant species are present
17	Barnes Creek Dunes and Panne	NA-2	T1N, R23E Section 20 Village of Pleasant Prairie	Village of Pleasant Prairie, Department of Natural Resources, and private	13	An unusual mixture of dry prairie and calcareous fen plant species on dune-and-swale topography, adjacent to Barnes Creek. Several critical species are present
18	First Avenue Prairie	NA-2	T1N, R23E Sections 29, 30 Village of Pleasant Prairie	Department of Natural Resources	12	High quality Lake Michigan wet-mesic prairie complex
19	Tobin Road Prairie	NA-2	T1N, R23E Sections 29, 30 Village of Pleasant Prairie	Department of Natural Resources and private	24	A portion of the northern Chiwaukee Prairie area containing rich low and dry prairies on dune- and-swale topography
20	Friendship Lake Marsh	NA-2	T2N, R20E Sections 11, 12, 13, 14 Town of Brighton	Private and State of Wisconsin Public Trust Lands	119	Large cattail marsh and sedge meadow surrounding a small, but good-quality, kettle lake. Valuable feeding and nesting habitat for a variety of marshland birds. Recent shoreline construction activities have lowered the ecological value
21	CTH NN Sedge Meadow	NA-2	T2N, R20E Section 31 Town of Brighton	Private	60	Good-quality sedge meadow, with little evidence of past disturbance and few exotic species. A good example of this community type
22	Petrifying Springs Woods	NA-2	T2N, R22E Sections 2, 11 Town of Somers	Kenosha County, University of Wisconsin-Parkside, and private	197	A rich southern mesic to dry-mesic hardwood forest dominated by white and red oaks, white ash, sugar maple, and basswood. The undulating topography is covered by a very diverse spring flora, including a large population of twinleaf (<i>Jeffersonia diphylla</i>), a State-designated species of special concern. One of the better woodland areas remaining in Southeastern Wisconsin
23	Powers Lake Tamarack Relict	NA-3	T1N, R19E Sections 8, 9 Town of Wheatland	Private	152	A large but disturbed wetland complex of marsh, sedge meadow, shrub-carr, and relict tamaracks. Agricultural use on the periphery has adversely affected the area
24	Silver Lake Wetlands	NA-3	T1N, R20E Section 8 Town of Salem	Private	101	Good quality wetlands at north end of Silver Lake
25	Hooker Lake Marsh	NA-3	T1N, R20E Section 11 Town of Salem	Private and State of Wisconsin Public Trust Lands	47	Deep and shallow cattail marsh on the northwest side of Hooker Lake
26	Montgomery Lake Marsh	NA-3	T1N, R20E Section 11 Town of Salem	Private and State of Wisconsin Public Trust Lands	52	Cattail-dominated deep and shallow marsh bordering Montgomery lake

Table 37 (continued)

Map 39 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
27	CTH B-CTH AH Sedge Meadow	NA-3	T1N, R20E Section 20 Town of Salem	Private	12	Located near the intersection of CTH B and CTH AH, this small but good-quality sedge meadow contains a large number of native species. Disturbance is limited to the wetland borders
28	Center Lake Woods and Wetlands	NA-3	T1N, R20E Sections 21, 22 Town of Salem	Town of Salem and private	72	Species-rich ravine woods associated with good quality wetland
29	Des Plaines River Wetlands	NA-3	T1N, R21E Sections 12, 13, 14 Town of Bristol	Private	66	A one-mile stretch of the Des Plaines River west of IH 94. Wetlands include sedge meadow, shallow marsh, and lowland hardwoods
30	Salem Road Marsh	NA-3	T1N, R21E Section 18 Village of Bristol	Conservation Club of Kenosha	27	Shallow, cattail-dominated marsh
31	Lake Russo Prairie Remnant	NA-3	T1N, R22E Section 7 Village of Pleasant Prairie	Private	6	A small, moderate- to good-quality wet-mesic prairie remnant that is suffering disturbance by local residents
32	Bain Station Railroad Prairie	NA-3	T1N, R22E Section 9 Village of Pleasant Prairie	WE Energies	4	A small, moderate- to good-quality mesic to wet-mesic prairie remnant along an abandoned railway right-of-way. Dominated by big bluestem, Indian grass, prairie dock, and goldenrods. Restoration and management efforts by WE Energies
33	Des Plaines River Lowlands	NA-3	T1N, R22E Sections 17, 18, 19, 20 Village of Pleasant Prairie	The Nature Conservancy, Village of Pleasant Prairie, and other private	413	Extensive wetland and upland complex along the Des Plaines River, significant because of its open space and wildlife habitat. Contains xeric oak woods, mesic and wet-mesic prairie, fresh (wet) meadow, and riverine forest. The State-designated endangered prairie white-fringed orchid (<i>Platanthera leucophaea</i>) has been found here
34	Pleasant Railroad Prairie	NA-3	T1N, R22E Sections 29, 32 Village of Pleasant Prairie	Private	6	Discontinuous remnants of the once-extensive wet-mesic prairie of southern Kenosha County, bordering double tracks. Small patches are of good quality, containing some regionally uncommon species
35	Carol Beach Estates Prairie	NA-3	T1N, R23E Section 19 Village of Pleasant Prairie	The Nature Conservancy and other private	7	A rich wet to wet-mesic prairie on sandy soils that is threatened by shrub invasion. Critical plant species are present
36	Dyer Lake Sedge Meadow	NA-3	T2N, R19E Section 30 Town of Wheatland	Kenosha Boy Scouts and other private	40	Good quality wetland complex on west side of Dyer Lake. Consists of sedge meadow, shrub-carr, and deep and shallow marsh. The site is somewhat alkaline. Good native species diversity
37	Peterson Creek Sedge Meadow	NA-3	T2N, R19E Section 36 Town of Wheatland T2N, R20E Section 31 Town of Brighton	Private	69	This moderate- to good-quality wetland complex bordering Peterson Creek consists of sedge meadow and cattail marsh. The highest-quality area lies southeast of the creek, where calci-philic species are present
38	Section 11 Wetlands and Oak Woods	NA-3	T2N, R20E Sections 11, 12 Town of Brighton	Private	130	A moderate-quality wetland complex, consisting of sedge meadow and cattail marsh, bordered by a disturbed oak woods

Table 37 (continued)

Map 39 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
39	Bong Low Prairie	NA-3	T2N, R20E Sections 19, 20 Town of Brighton	Department of Natural Resources	2	A series of small patches of remnant low prairie within the Bong State Recreation Area. Disturbance history varies, but the two areas adjacent to north-south road are of good quality. Good display of the marsh blazing-star (<i>Liatris spicata</i>)
40	Paris (Ehlen) Prairie Remnant	NA-3	T2N, R21E Section 16 Town of Paris	Private	1	A small but generally good-quality remnant of the once-extensive mesic prairie that formerly occupied central Kenosha County. Critical plant species are present
41	Pike River Bottomland Woods	NA-3	T2N, R22E Sections 3, 10 Town of Somers	Hawthorn Hollow Nature Sanctuary and private	65	Good-quality wet-mesic forest in lowlands and dry-mesic forest on uplands bordering the Pike River. Contains a rich and diverse ground flora. A small prairie remnant is present within the Hawthorn Hollow Nature Sanctuary. This is probably the most natural remaining stretch of the Pike River
42	Kotrba Wetland	CSH	T1N, R19E Section 9 Town of Wheatland	Private	15	Lowland shrub-carr contains a small population of small yellow lady's-slipper orchid (<i>Cypripedium parviflorum</i>)
43	Wilmot Stream Woodland	CSH	T1N, R19E Section 25 Town of Randall	Private	8	Narrow wooded streamway containing critical plant species
44	Hamilton Woods	CSH	T1N, R19E Section 33 Town of Randall	Private	18	Moderate quality dry-mesic woods
45	Fox River Park Low Woods and Sedge Meadow	CSH	T1N, R20E Section 19 Town of Salem	Private and Kenosha County	44	Lowland hardwoods and open wetlands adjacent to Fox River
46	Fox River Park Woods	CSH	T1N, R20E Section 19 Town of Salem	Kenosha County	10	Moderate quality dry-mesic woods
47	Wilmot Ski Hill Prairie	CSH	T1N, R20E Section 31 Town of Salem	Private	1	Small remnant of wet-mesic prairie
48	Rock Lake Woods	CSH	T1N, R20E Section 34 Town of Salem	Private	8	Small dry-mesic woodland within a residential area
49	Trevor Creek Wet Prairie	CSH	T1N, R20E Section 34 Town of Salem	Private	42	Small remnants of wet-mesic prairie
50	Louvain Old Field	CSH	T1N, R21E Section 9 Village of Bristol	Private	1	Recovering old field in agricultural matrix contains round-fruited St. John's-wort (<i>Hypericum sphaerocarpum</i>)
51	CTH C Low Prairie Remnant	CSH	T1N, R21E Section 13 Village of Pleasant Prairie	Village of Pleasant Prairie	5	Prairie remnant recently disturbed by intersection reconstruction; supports two State-designated threatened plant species—wild quinine (<i>Parthenium integrifolium</i>) and prairie Indian plantain (<i>Cacalia tuberosa</i>)
52	Bain Station Low Prairie	CSH	T1N, R22E Section 9 Village of Pleasant Prairie	Private	23	Marsh, low prairie, and sedge meadow complex
53	Piela Property	CSH	T1N, R22E Section 33 Village of Pleasant Prairie	Private	1	Small, disturbed wetland contains swamp agrimony (<i>Agrimonia parviflora</i>)
54	Martin Band Parcel	CSH	T1N, R23E Section 18 Village of Pleasant Prairie	Private	9	Wet-mesic prairie remnant contains smooth phlox (<i>Phlox glaberrima</i>)

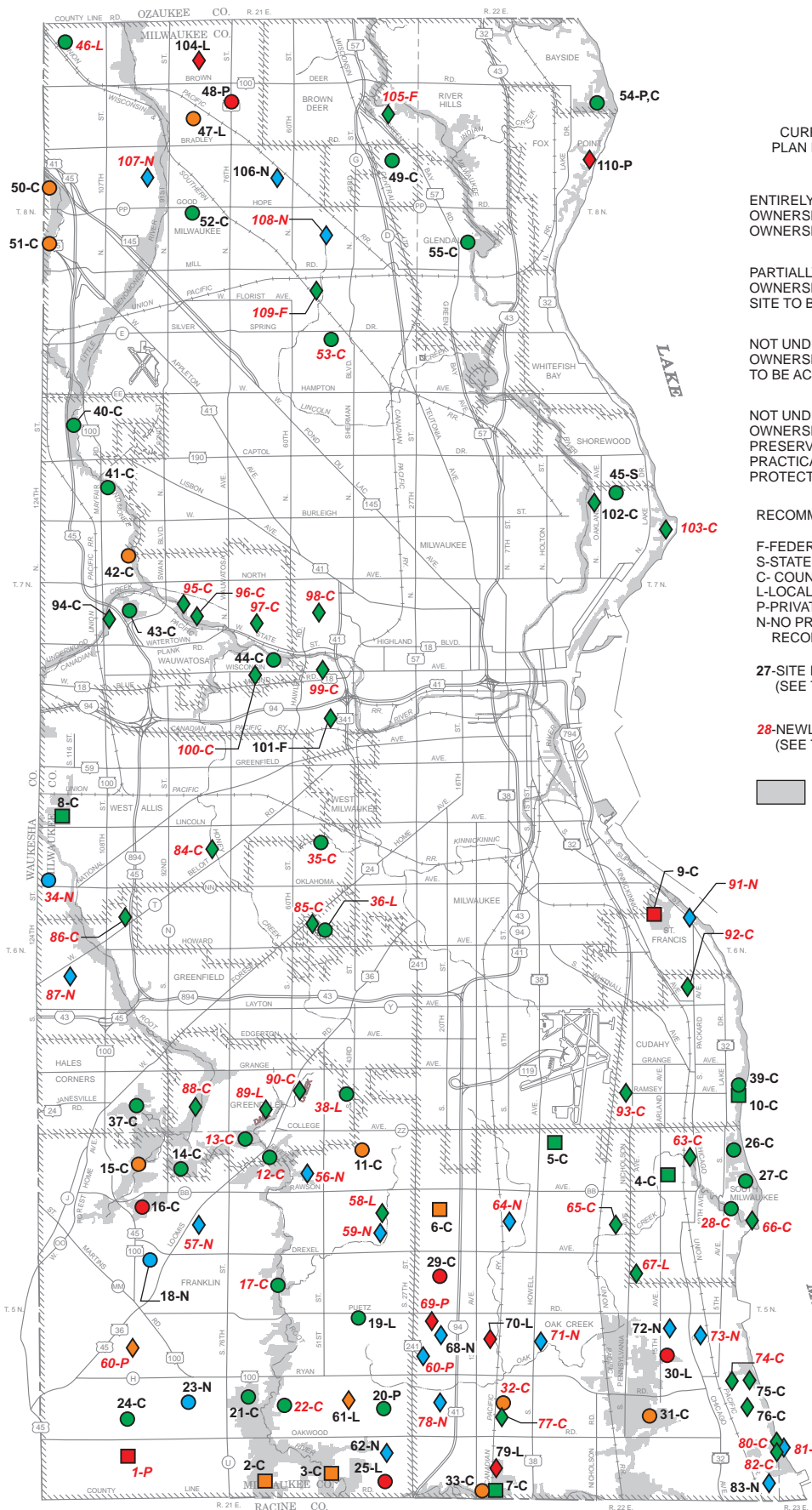
Table 37 (continued)

Map 39 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
55	Nedweski Parcel	CSH	T1N, R23E Section 18 Village of Pleasant Prairie	Private	16	Disturbed wetland containing a few native prairie and dune species
56	Barnes Creek	CSH	T1N, R23E Section 19 Village of Pleasant Prairie	Private and Village of Pleasant Prairie	29	Small wet-mesic prairie remnant adjacent to Barnes Creek
57	Janice Prairie	CSH	T1N, R23E Section 19 Village of Pleasant Prairie	Private	3	Small remnant of wet-mesic prairie within residential area
58	Pleasant Prairie PCA No. 8	CSH	T1N, R23E Section 19 Village of Pleasant Prairie	Private	1	Small dry-mesic prairie remnant
59	Carol Beach Parcel No. 2	CSH	T1N, R23E Section 29 Village of Pleasant Prairie	Private	2	Small remnant of wet-mesic prairie containing marsh blazing-star (<i>Liatris spicata</i>)
60	Bourque Low Prairie	CSH	T1N, R23E Section 31 Village of Pleasant Prairie	Private	4	Disturbed lakeplain wet-mesic prairie
61	Carol Beach Oak Woods	CSH	T1N, R23E Section 31 Village of Pleasant Prairie	Private	3	Small remnant oak opening
62	Brighton-Dale Woods	CSH	T2N, R20E Section 10 Town of Brighton	Kenosha County	54	Dry-mesic oak woods within county park
63	Bong State Recreation Area	CSH	T2N, R20E Sections 3, 4, 7, 9, 15, 16, 17, 18, 19, 20, 21, 22, 23 Town of Brighton Racine County T2N, R19E Sections 12, 13 Town of Burlington	Department of Natural Resources and private	4,754 (plus 267 acres in Racine County)	Extensive artificial grasslands provide critical nesting habitat for grassland birds
64	Peterson Creek Wetland	CSH	T2N, R20E Section 30 Town of Brighton	Private	84	Tussock sedge meadow
65	Poisl Woods	CSH	T2N, R21E Section 1 Town of Paris	Private	82	Relatively large but very disturbed woodland
66	Parkside Ski Trail Woods	CSH	T2N, R22E Section 11 Town of Somers	University of Wisconsin-Parkside	28	Moderate quality dry-mesic woods
67	Parkside Woods	CSH	T2N, R22E Section 12 Town of Somers	University of Wisconsin-Parkside	15	Moderate quality dry-mesic woods
68	Kenosha Bike Trail Prairie	CSH	T2N R22E Section 13 T2N, R23E Section 18 City of Kenosha	Kenosha County	3	Small remnants of once-extensive wet-mesic prairie bordering east side of bike trail
69	Thompson Woods	CSH	T2N, R22E Section 13 Town of Somers	Private	5	Small, moderate quality dry-mesic woods suffering encroachments by surrounding residences
70	Bradford School Woods	CSH	T2N, R22E Section 25 City of Kenosha	City of Kenosha	19	Disturbed dry-mesic woodland on grounds of high school
71	Berryville Woods	CSH	T2N, R23E Section 5 Town of Somers	Private	3	Small woodlot containing only State population of black gum (<i>Nyssa sylvatica</i>)
72	Poerio Park Woods	CSH	T2N, R23E Section 18 Town of Somers	City of Kenosha and private	16	Dry-mesic and wet-mesic woods with relatively rich ground flora

Note: Shaded areas indicate new areas.

Source: SEWRPC.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN MILWAUKEE COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/PROTECTIVE OWNERSHIP TO BE RETAINED	(NONE)	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/REMAINDER OF SITE TO BE ACQUIRED	(NONE)	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ENTIRE SITE TO BE ACQUIRED	(NONE)	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/TO BE PRESERVED TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	●	◆

RECOMMENDED OWNERSHIP KEY:

- F-FEDERAL GOVERNMENT
- S-STATE GOVERNMENT
- C-COUNTY GOVERNMENT
- L-LOCAL GOVERNMENT
- P-PRIVATE CONSERVANCY ORGANIZATION
- N-NO PROTECTIVE OWNERSHIP RECOMMENDED

27-SITE REFERENCE NUMBER (SEE TABLE 38)

28-NEWLY IDENTIFIED SITE REFERENCE NUMBER (SEE TABLE 38)

PRIMARY ENVIRONMENTAL CORRIDORS

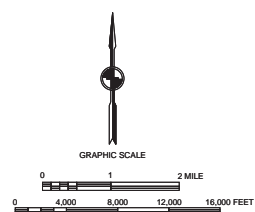


Table 38

KNOWN NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IN MILWAUKEE COUNTY: 2009

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
1	Adams Prairie	NA-2	T5N, R21E Section 32 City of Franklin	Private	37	Species-rich, high-quality wet-mesic prairie and sedge meadow complex
2	Root River Canal Woods	NA-2	T5N, R21E Section 34 City of Franklin T4N, R21E Section 3 Town of Raymond	Milwaukee County and private	152 (plus 163 in Racine County)	A mixture of good-quality dry-mesic and lowland hardwood forest along the Root River Canal. One of the largest intact forested tracts in this part of the Region. Extends south into Racine County
3	Root River Wet-Mesic Woods—West	NA-2	T5N, R21E Sections 35, 36 City of Franklin	Milwaukee County and private	273	Mixture of medium-aged lowland and upland hardwoods that is recovering well from past disturbance. The ground flora is particularly rich and diverse, including good populations of several rare species. This is an important part of the Root River environmental corridor
4	Rawson Park Woods	NA-2	T5N, R22E Section 2 City of South Milwaukee	Milwaukee County and City of Milwaukee	23	Despite heavy human use, especially from the adjacent high school, this site contains probably the best remaining example of beech-maple forest in Milwaukee County. The north half is in best condition. The rich ground flora contains a good population of blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species
5	Cudahy Woods	NA-2 (SNA)	T5N, R22E Section 4 City of Oak Creek	Milwaukee County	47	An upland hardwood forest containing two major forest types separated by a small stream. To the north is a dry-mesic forest of oak, cherry, and hickory; southward is an old-growth mesic forest of sugar maple, beech, and red oak. One of the best forests of its kind in the vicinity; there is a history of past scientific research
6	Falk Park Woods	NA-2	T5N, R22E Section 7 City of Oak Creek	Milwaukee County and private	78	This is a diverse, relatively large north-south stand of woods. Consists mostly of good-quality dry-mesic uplands, with mesic stands of beech and sugar maple at the north end, and low areas of ephemeral ponds, wet-mesic hardwoods, and streams interspersed throughout. Past disturbances appear minimal
7	Root River Wet-Mesic Woods—East	NA-2	T5N, R22E Section 32 City of Oak Creek T4N, R22E Section 5 Village of Caledonia	Milwaukee County and Racine County	50 (plus 2 in Racine County)	Wet-mesic and mesic woods bordering a gravel-bottom stream that is tributary to the Root River. Contains a rich, diverse flora, including several rare species
8	Greenfield Park Woods	NA-2	T6N, R21E Section 6 City of West Allis	Milwaukee County	52	A good stand of southern dry-mesic hardwoods dominated by red and white oaks, sugar maple, and basswood. Includes ephemeral ponds and a lowland hardwood swamp

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
9	St. Francis Seminary Woods	NA-2	T6N, R22E Sections 14, 15 City of St. Francis	St. Francis Seminary	52	This southern mesic forest features mature basswood, sugar maple, beech, red oak, and paper birch. The site is divided by a gravel road, a small tributary to Lake Michigan, and numerous trails. The relatively diverse ground flora includes the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
10	Warnimont Park Fens	NA-2 (SNA)	T6N, R22E Section 36 City of Cudahy	Milwaukee County	2	Clay bluffs with spring seepages along Lake Michigan support calcareous fens which contain an unusual flora. Regionally uncommon plants include buffaloberry (<i>Shepherdia canadensis</i>), variegated scouring-rush (<i>Equisetum variegatum</i>), Ohio goldenrod (<i>Solidago ohioensis</i>), small fringed gentian (<i>Gentianopsis procera</i>), and false asphodel (<i>Tofieldia glutinosa</i>), a State-designated threatened species
11	Grobschmidt Park Wetlands and Upland Woods	NA-3	T5N, R21E Sections 1, 2 City of Franklin	Milwaukee County and private	83	A combination of moderate-quality deep and shallow marsh, sedge meadow, shrub-carr, and disturbed dry-mesic woods. Site contains a restored prairie
12	Bike Trail Marsh	NA-3	T5N, R21E Section 3 City of Franklin	Milwaukee County	3	Good-quality shallow marsh
13	Root River Low and Upland Woods	NA-3	T5N, R21E Section 3 City of Franklin	Milwaukee County	76	Primarily wet-mesic and floodplain woods along Root River, with upland dry-mesic forest at north end
14	Root River Parkway Woods	NA-3	T5N, R21E Section 4 Village of Greendale	Milwaukee County	64	Dry-mesic forest on undulating topography, dominated by relatively large red oaks. Ground layer is sparse. The woods contains hiking and ski trails
15	Whitnall Park Woods—South	NA-3	T5N, R21E Sections 5, 8 City of Franklin T6N, R21E Section 32 Village of Hales Corners	Milwaukee County and private	145	Site consists of several more-or-less connected stands of dry-mesic upland woods. The area of highest quality is surrounded by golf links. Here, mature red oaks and sugar maples provide a canopy over a representative ground flora that includes two State-designated species: American gromwell (<i>Lithospermum latifolium</i>) and black haw (<i>Viburnum prunifolium</i>)
16	Monastery Lake Wetlands	NA-3	T5N, R21E Section 8 City of Franklin	Private	48	A diverse wetland plant community complex consisting of deep and shallow marsh, sedge meadow, fresh (wet) meadow, shrub-carr, and the last tree-size tamaracks in Milwaukee County
17	Root River Bike Trail Woods	NA-3	T5N, R21E Section 15 City of Franklin	Milwaukee County	108	Relatively diverse combination of wet-mesic and dry-mesic woods bordering Root River
18	Mission Hills Wetlands	NA-3	T5N, R21E Sections 16, 17 City of Franklin	Private	38	Complex of sedge meadow, shallow marsh, and wet prairie

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
19	Franklin (Puetz Road) Woods	NA-3	T5N, R21E Sections 23, 24 City of Franklin	City of Franklin	34	Situated along the headwaters of Oak Creek, this site consists of mature dry-mesic hardwoods, lowland hardwoods, and stands of younger growth. The rich and diverse flora includes black haw (<i>Viburnum prunifolium</i>), a State-designated special concern species
20	Fitzsimmons Road Woods	NA-3	T5N, R21E Section 25 City of Franklin	Milwaukee County and Milwaukee Area Land Conservancy	39	The south and east portions of this dry-mesic woods are mostly second-growth; the west portion is less disturbed, with larger, mature trees. In the northwest are several ephemeral ponds where the State-designated endangered hoplike sedge (<i>Carex lupuliformis</i>) is found
21	Root River Parkway Prairie	NA-3	T5N, R21E Section 27 City of Franklin	Milwaukee County	51	Wet-mesic prairie located within the Root River Parkway wetland complex. Characteristic species include big bluestem, saw-toothed sunflower, Virginia mountain mint, prairie cordgrass, leadplant, azure aster, bottle gentian, prairie dock, and slender ladies'-tresses orchid. It is the largest prairie remaining in Milwaukee County
22	60 th Street Woods	NA-3	T5N, R21E Section 27 City of Franklin	Milwaukee County	11	Small, but species-rich upland woods
23	Ryan Creek Woods	NA-3	T5N, R21E Section 28 City of Franklin	Private	102	One of the larger woodlots remaining in Milwaukee County, this is a dry-mesic woods of varying quality that is recovering from past disturbance. An east-west stream crosses the south end
24	Franklin Oak Woods and Oak Savanna	NA-3 (SNA)	T5N, R21E Section 29 City of Franklin	Milwaukee County	79	The entire site is former oak savanna, but only the north portion retains this appearance. Here are large, scattered, open-grown bur oaks, but the understory consists mainly of weeds, with a few prairie species persisting. The south portion has degraded further into a dense shrubland. Recent restoration efforts, including cutting and burning, are attempting to restore this site to more of a pre-settlement condition
25	Elm Road Woods	NA-3	T5N, R21E Section 36 City of Franklin	Private	20	A small, mostly second-growth woodlot of southern mesic forest and lowland hardwoods. American beech is present at the western edge of its range. Contains two populations of two State-designated special concern species: American gromwell (<i>Lithospermum latifolium</i>) and black haw (<i>Viburnum prunifolium</i>)
26	Grant Park Woods—Old Growth	NA-3	T5N, R22E Section 1 City of South Milwaukee	Milwaukee County	42	Dissected by ravines, this site has long been used as a park. Despite the heavy human influence, this beech-maple woods, which is a remnant of the original Lake Michigan forest, retains some of its pre-settlement character. The rich ground flora includes the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
27	Grant Park Woods—South	NA-3	T5N, R22E Section 1, 12 City of South Milwaukee	Milwaukee County	45	A remnant of the once more-widespread beech-maple mesic woods along Lake Michigan, this is a narrow wooded strip of moderate quality in Grant Park. Bordered on the west by golf course
28	Oak Creek Parkway Woods	NA-3	T5N, R22E Sections 11, 12 City of Oak Creek	Milwaukee County	24	Dry-mesic woods along Oak Creek
29	Esch-Honadel Woods	NA-3	T5N, R22E Section 18 City of Oak Creek	Private	64	A patchy mix of low woods, second-growth upland forest, and relatively undisturbed beech woods. Integrity of the woods is threatened by encroaching residential development
30	Wedge Woods	NA-3	T5N, R22E Section 23 City of Oak Creek	Private	17	A small, disturbed woods consisting of lowland hardwoods at the low, wet west end, and dry-mesic woods at the drier east end. Contains one of the largest populations of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>) in the State. Threatened by residential development
31	Oak Creek Low Woods	NA-3	T5N, R22E Section 26, 27 City of Oak Creek	Milwaukee County and private	68	Moderate-quality wet-mesic woods, with small areas of mesic woods
32	Ryan Road Woods	NA-3	T5N, R22E Section 29 City of Oak Creek	Milwaukee County and private	42	Dry-mesic woods containing critical species
33	Root River Riverine Forest	NA-3	T5N, R22E Sections 31, 32, 33, 34 City of Oak Creek T4N, R22E Sections 3, 4, 5, 6 Village of Caledonia	Milwaukee County, Racine County, Wisconsin Department of Transportation, and private	147 (plus 184 in Racine County)	A significant portion of the Root River corridor. Extends south into Racine County
34	West Branch Root River Woods	NA-3	T6N, R21E Section 7 City of West Allis	Private	12	Small remnant of native forest in highly developed area
35	Mitchell's Woods	NA-3	T6N, R21E Section 11 City of Milwaukee	Milwaukee County	37	Mixed-quality woods bordering Kinnickinnick River
36	Glenwood School Woods	NA-3	T6N, R21E Section 14 City Of Milwaukee	Glenwood School	7	Relatively good-quality dry-mesic woods on school grounds
37	Whitnall Park Woods—North	NA-3	T6N, R21E Section 32 Village of Hales Corners	Milwaukee County	82	Stands of dry-mesic and lowland hardwoods within Whitnall Park. Contains forked aster (<i>Aster furcatus</i>), a State-designated threatened species
38	Grootemaat Woods	NA-3	T6N, R21E Section 35 City of Greenfield	City of Greenfield	20	Dry-mesic woods with ephemeral ponds
39	Warnimont Park Woods	NA-3	T6N, R22E Section 36 City of Cudahy	Milwaukee County	47	Mix of mesic and dry-mesic woods located on bluffs along Lake Michigan, traversed by ravines which provide cooler and moister micro-habitats
40	Menomonee River Swamp—South	NA-3	T7N, R21E Section 6 City of Wauwatosa	Milwaukee County, City of Milwaukee, and Wisconsin Department of Transportation	99	A portion of the Menomonee River bordered by lowland hardwood forest and dry-mesic upland woods. Contains American gromwell (<i>Lithospermum latifolium</i>) and heart-leaved skullcap (<i>Scutellaria ovata</i>), both State-designated special concern species

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
41	Currie Park Low Woods	NA-3	T7N, R21E Section 8 City of Wauwatosa	Milwaukee County	27	A portion of the Menomonee River bordered by disturbed lowland hardwoods and upland dry-mesic woods. The ground flora is rich, including such rare species as the State-designated threatened forked aster (<i>Aster furcatus</i>)
42	Blue Mound Country Club Woods	NA-3	T7N, R21E Section 17 City of Wauwatosa	Milwaukee County and private	17	A small patch of southern dry-mesic woods containing critical species habitat
43	Wil-O-Way Woods	NA-3	T7N, R21E Section 20 City of Wauwatosa	Milwaukee County	41	Moderate-quality southern dry-mesic hardwoods containing a representative ground flora
44	Jacobus Park Woods	NA-3	T7N, R21E Section 27 City of Wauwatosa	Milwaukee County	11	A small remnant of the original southern dry-mesic forest on bluffs overlooking the Menomonee River. Contains several populations of the State-designated threatened forked aster (<i>Aster furcatus</i>), as well as other regionally rare species
45	Downer Woods	NA-3	T7N, R22E Section 10 City of Milwaukee	University of Wisconsin— Milwaukee	11	A disturbed southern dry-mesic hardwood forest where scattered large oaks and smaller ashes and basswoods dominate the tree stratum. There is a thick shrub layer of natives and exotics. One of the few undeveloped woods within this part of the County
46	Granville Low Woods	NA-3	T8N, R21E Section 6 City of Milwaukee	Milwaukee Metropolitan Sewerage District	50	Good quality wet-mesic woods supporting critical species habitat
47	Bradley Woods	NA-3	T8N, R21E Section 9 City of Milwaukee	City of Milwaukee and private	34	An old-growth southern mesic forested island, dominated by sugar maple, beech, and basswood. One of the few remnants of the original forest remaining in northern Milwaukee County. The western portion, owned by the County, is least disturbed
48	Convent Woods	NA-3	T8N, R21E Section 10 City of Milwaukee	Private	9	Small though floristically diverse mesic forest remnant
49	Brown Deer Park Woods	NA-3	T8N, R21E Section 13 Village of Brown Deer	Milwaukee County	43	Small islands of remnant southern mesic hardwoods within a golf-course matrix, dominated by beech and sugar maple
50	Harbinger Woods	NA-3	T8N, R21E Sections 18 City of Milwaukee T8N, R20E Section 13 Village of Menomonee Falls	Milwaukee County and private	34 (plus 12 in Waukesha County)	Mesic upland woods and lowland hardwoods bordering the Menomonee River that extend into Waukesha County. The spring flora of the mesic woods is rich and diverse, including American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species. Also present are several chinkapin oaks (<i>Quercus muehlenbergii</i>), a State-designated special concern tree species.
51	Menomonee River Swamp—North	NA-3	T8N, R21E Sections 19, 30 City of Milwaukee T8N, R20E Section 24 Village of Menomonee Falls	Milwaukee County and private	75 (plus 4 in Waukesha County)	Discontinuous patches of disturbed floodplain forest bordering the Menomonee River

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
52	Haskell Noyes Park Woods	NA-3	T8N, R21E Section 21 City of Milwaukee	Milwaukee County	20	Disturbed southern mesic hardwood forested island with a substantial amount of beech. Best old-growth remnant is near center of woods. Pond and wetlands are present at south end
53	McGovern Park Woods	NA-3	T8N, R21E Section 35 City of Milwaukee	Milwaukee County	14	Remnant woodland within urban park
54	Schlitz Audubon Center/Doctors Park Woods and Beach	NA-3	T8N, R22E Sections 9, 10 Village of Bayside	Schlitz Audubon Center and Milwaukee County	72	Mesic and dry-mesic woods on bluffs and in steep ravines along Lake Michigan. Site includes lake sand beach
55	Kletzsch Park Woods	NA-3	T8N, R22E Section 19 City of Glendale	Milwaukee County	13	A remnant of southern mesic to dry-mesic forest on the west bank of the Milwaukee River. The diversity of habitats (upland woods, ravine, floodplain, and slope) has resulted in a diverse ground flora, including the State-designated threatened forked aster (<i>Aster furcatus</i>)
56	Russell Avenue Woods	CSH	T5N, R21E Section 2 City of Franklin	Private	9	Woodland that supports a population of red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
57	Loomis Road Woods	CSH	T5N, R21E Section 9 City of Franklin	Private	13	Small woodland in residential area contains two State-designated special concern species: red trillium (<i>Trillium recurvatum</i>) and American gromwell (<i>Lithospermum latifolium</i>)
58	Countryside Woods	CSH	T5N, R21E Section 12 City of Franklin	City of Franklin and Metropolitan Milwaukee Sewerage District	26	A wooded mix of lowlands and uplands contains populations of two State-designated special concern species: red trillium (<i>Trillium recurvatum</i>) and black haw (<i>Viburnum prunifolium</i>)
59	35 th Street Woods	CSH	T5N, R21E Section 12 City of Franklin	Private	14	Upland and lowland wooded site, containing black haw (<i>Viburnum prunifolium</i>), a State-designated special concern species
60	Shooting Star Prairie and Shrubland (Carity Prairie)	CSH	T5N, R21E Section 20 City of Franklin	Milwaukee Area Land Conservancy and private	18	Upland prairie remnant, dominated by shooting star, and associated shrub thicket
61	Oakwood Park Oak Woods	CSH	T5N, R21E Section 25, 26 City of Franklin	Milwaukee County and private	8	Upland woodlot, formerly of NA-3 status, now downgraded because of extensive development of industrial park
62	Elm Road Woods—North	CSH	T5N, R21E Section 36 City of Franklin	Private	32	Disturbed dry-mesic woods
63	Oak Creek Parkway Bike Trail Woods	CSH	T5N, R22E Section 2 City of South Milwaukee	Milwaukee County	2	Small wooded patch containing the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
64	Industrial Park Mesic Woods	CSH	T5N, R22E Section 8 City of Oak Creek	Private	5	Mesic forest remnant within industrial park supporting goldenseal (<i>Hydrastis canadensis</i>), a State-designated special concern species
65	Camelot Park Woods	CSH	T5N, R22E Section 10 City of Oak Creek	Milwaukee County	15	A small population of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>) is located within this upland woodlot
66	Oak Creek Bluffs and Beach—North	CSH	T5N, R22E Section 12 City of South Milwaukee	Milwaukee County	4	Seepage areas on eroding clay banks along Lake Michigan support two State-designated special concern species: Ohio goldenrod (<i>Solidago ohioensis</i>) and false asphodel (<i>Tofieldia glutinosa</i>)

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
67	Blakewood School Woods	CSH	T5N, R22E Section 15 City of South Milwaukee	Blakewood School	1	Small mesic woodlot on school grounds
68	Meyers Woods	CSH	T5N, R22E Section 19 City of Oak Creek	Private	10	Woodland that has recently lost acreage due to residential development, yet still supports black haw (<i>Viburnum prunifolium</i>), a State-designated special concern species
69	Puetz Road Woods	CSH	T5N, R22E Section 19 City of Oak Creek	Private	22	A wooded mix of lowlands and uplands contains populations of two State-designated special concern species: red trillium (<i>Trillium recurvatum</i>) and black haw (<i>Viburnum prunifolium</i>)
70	Wood Creek Woods	CSH	T5N, R22E Section 20 City of Oak Creek	Private	27	Upland and lowland woodlot, formerly of NA-3 status, now downgraded because of extensive residential development
71	Howell Avenue Woods	CSH	T5N, R22E Section 21 City of Oak Creek	Private	21	Mixed-quality woodlot, threatened by development
72	Fittshur Wetland	CSH	T5N, R22E Section 23 City of Oak Creek	Private	6	A population of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>) is located in the wooded upland border
73	Schmidt/Johnson Woods	CSH	T5N, R22E Section 23 City of Oak Creek	Private	6	Small woodland containing black haw (<i>Viburnum prunifolium</i>), a State-designated special concern species
74	Bender Park Stream and Meadow	CSH	T5N, R22E Section 25 City of Oak Creek	Milwaukee County	2	Open lowlands adjacent to a small stream support waxy meadow rue (<i>Thalictrum revolutum</i>), a State-designated special concern species
75	Bender Park Woods—North	CSH	T5N, R22E Section 25 City of Oak Creek	Milwaukee County	11	Small woodlot along Lake Michigan, at north end of Bender Park
76	Bender Park Woods—South	CSH	T5N, R22E Section 25 City of Oak Creek	Milwaukee County	5	Small woodlot in Bender Park with a relatively rich ground flora, including the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
77	Ryan Road Upland Woods—East	CSH	T5N, R22E Section 29 City of Oak Creek	Milwaukee County	4	Disturbed dry-mesic woodlot
78	Truck Stop Woods	CSH	T5N, R22E Section 30 City of Oak Creek	Private	11	Disturbed mix of upland and lowland woods and shrubland
79	PPG Woods	CSH	T5N, R22E Section 32 City of Oak Creek	Private	19	Disturbed dry-mesic woodlot
80	Bender Clay Banks and Ravine—South	CSH	T5N, R22E Section 36 City of Oak Creek	Milwaukee County	2	Seepage areas on the clay banks along Lake Michigan support slender bog arrow-grass, (<i>Triglochin palustre</i>), a State-designated special concern species
81	Clay Ravine Woods	CSH	T5N, R22E Section 36 City of Oak Creek	WE Energies	12	Wooded ravine cut through the Lake Michigan clay bluffs contains a population of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
82	Oak Creek Bluffs and Beach—South	CSH	T5N, R22E Section 36 T5N, R23E Section 31 City of Oak Creek	Milwaukee County	24	A stretch of Lake Michigan that supports sea rocket (<i>Cakile edentula</i>), a State-designated special concern species found on open, sandy beaches

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
83	Oak Creek Power Plant Woods	CSH	T5N, R22E Section 36 City of Oak Creek	WE Energies	16	Upland mesic woodlot on the grounds of the Oak Creek power plant supports a population of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
84	Honey Creek Parkway Woods	CSH	T6N, R21E Section 9 City of West Allis	Milwaukee County	5	Woodland within an urban park that supports a population of red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
85	Lyons Park Woods	CSH	T6N, R21E Section 14 City of Milwaukee	Milwaukee County	6	Woodland within an urban park that supports a population of red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
86	Holt Park Woods	CSH	T6N, R21E Section 17 City of Greenfield	Milwaukee County	8	Woodland within an urban park that supports a population of red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
87	Cold Spring Road Thicket	CSH	T6N, R21E Section 19 City of Greenfield	Private	2	Upland shrubland contains small population of American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
88	Grange Avenue Woods	CSH	T6N, R21E Section 33 Village of Greendale	Milwaukee County	14	Disturbed dry-mesic woods with hoptree (<i>Ptelea trifoliata</i>), a State-designated special concern species, found along border
89	Westway Woods	CSH	T6N, R21E Section 34 Village of Greendale	Village of Greendale	9	Suburban woodland that supports a population of red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
90	Scout Lake Park Woods	CSH	T6N, R21E Section 35 Village of Greendale	Milwaukee County	43	Upland woods surrounding Scout Lake contain a small population of American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
91	Trestle Ravine Woods	CSH	T6N, R22E Section 14 City of St. Francis	WE Energies	3	A small woodland containing the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
92	Greene Park Woods	CSH	T6N, R22E Section 23 City of Cudahy	Milwaukee County	7	A small woodland within a park containing the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
93	Cudahy Park Woods	CSH	T6N, R22E Section 34 City of Cudahy	Milwaukee County	4	Small woodland within urban park
94	Underwood Parkway Woods	CSH	T7N, R21E Section 20 City of Wauwatosa	Milwaukee County	16	Woodland above Underwood Creek, adjacent to parkway
95	County Grounds Woods	CSH	T7N, R21E Section 21 City of Wauwatosa	Milwaukee County	10	Remnant dry-mesic woods containing forked aster (<i>Aster furcatus</i>), a State-designated threatened species
96	Harwood Avenue Woods	CSH	T7N, R21E Section 21 City of Wauwatosa	Milwaukee County	46	Woodlands bordering Menomonee River
97	Hart Park/Psychiatric Hospital Woods	CSH	T7N, R21E Section 22 City of Wauwatosa	Milwaukee County	41	Woodland along Menomonee River supports populations of one threatened plant species and five special concern plant species
98	Hawthorn Glen	CSH	T7N, R21E Section 23 City of Milwaukee	Milwaukee County	16	Woodland supports two State-designated special concern species: American gromwell (<i>Lithospermum latifolium</i>) and hoptree (<i>Ptelea trifoliata</i>)

Table 38 (continued)

Map 40 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
99	Doyne Park Woodland	CSH	T7N, R21E Section 26 City of Milwaukee	Milwaukee County	4	Woodland bordering Menomonee River contains small population of hoptree (<i>Ptelea trifoliata</i>), a State-designated special concern species
100	Menomonee River PCA No. 10	CSH	T7N, R21E Section 27 City of Wauwatosa	Milwaukee County	3	Small wooded area along the Menomonee River contains hoptree (<i>Ptelea trifoliata</i>), a State-designated special concern species
101	Stadium Bluff Woods	CSH	T7N, R21E Section 35 City of Milwaukee	Zablocki Veterans Affairs Medical Center	6	Wooded bluff located between Veterans Center and Miller Park parking area supports a population of forked aster (<i>Aster furcatus</i>), a State-designated threatened species. This site is also identified as GA-1, a geological site significant in the history of science
102	Cambridge Avenue Woods	CSH	T7N, R22E Section 9 City of Milwaukee	Milwaukee County	17	Relatively diverse stretch of primarily upland dry-mesic woods on east side of Milwaukee River that contains several populations of forked aster (<i>Aster furcatus</i>), a State-designated threatened species
103	Lake Park Woods	CSH	T7N, R22E Sections 14, 15 City of Milwaukee	Milwaukee County	46	Dry-mesic forest remnants along the wooded ravines of Lake Park
104	Research Center Woods	CSH	T8N, R21E Section 4 City of Milwaukee	Private	22	Remnant dry-mesic forest containing a small population of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
105	Silver Maple Island	CSH	T8N, R21E Section 12 Village of Brown Deer	Bureau of Land Management	1	Wooded island in Milwaukee River contains a population of sweet Indian plantain (<i>Hasteola suaveolens</i>), a State-designated special concern species
106	Brynwood Country Club Woods	CSH	T8N, R21E Section 15 City of Milwaukee	Private	5	Small wooded patch within golf course
107	West Granville Mesic Woods	CSH	T8N, R21E Section 17 City of Milwaukee	Private	8	Remnant dry-mesic woods within residential area
108	Greentree Road Woods	CSH	T8N, R21E Section 23 City of Milwaukee	Private	5	Upland woodland contains a population of American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
109	Army Reserve Woods	CSH	T8N, R21E Section 26 City of Milwaukee	U.S. Army	11	Small woodland containing a population of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
110	Fox Point Bluffs and Ravines	CSH	T8N, R22E Sections 9, 16, 21, 28 Village of Fox Point	Private	93	Wooded bluffs and ravines along Lake Michigan that, though disturbed, support a relatively diverse native flora

Note: Shaded areas indicate new areas.

Source: SEWRPC.

Map 41

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN OZAUKEE COUNTY

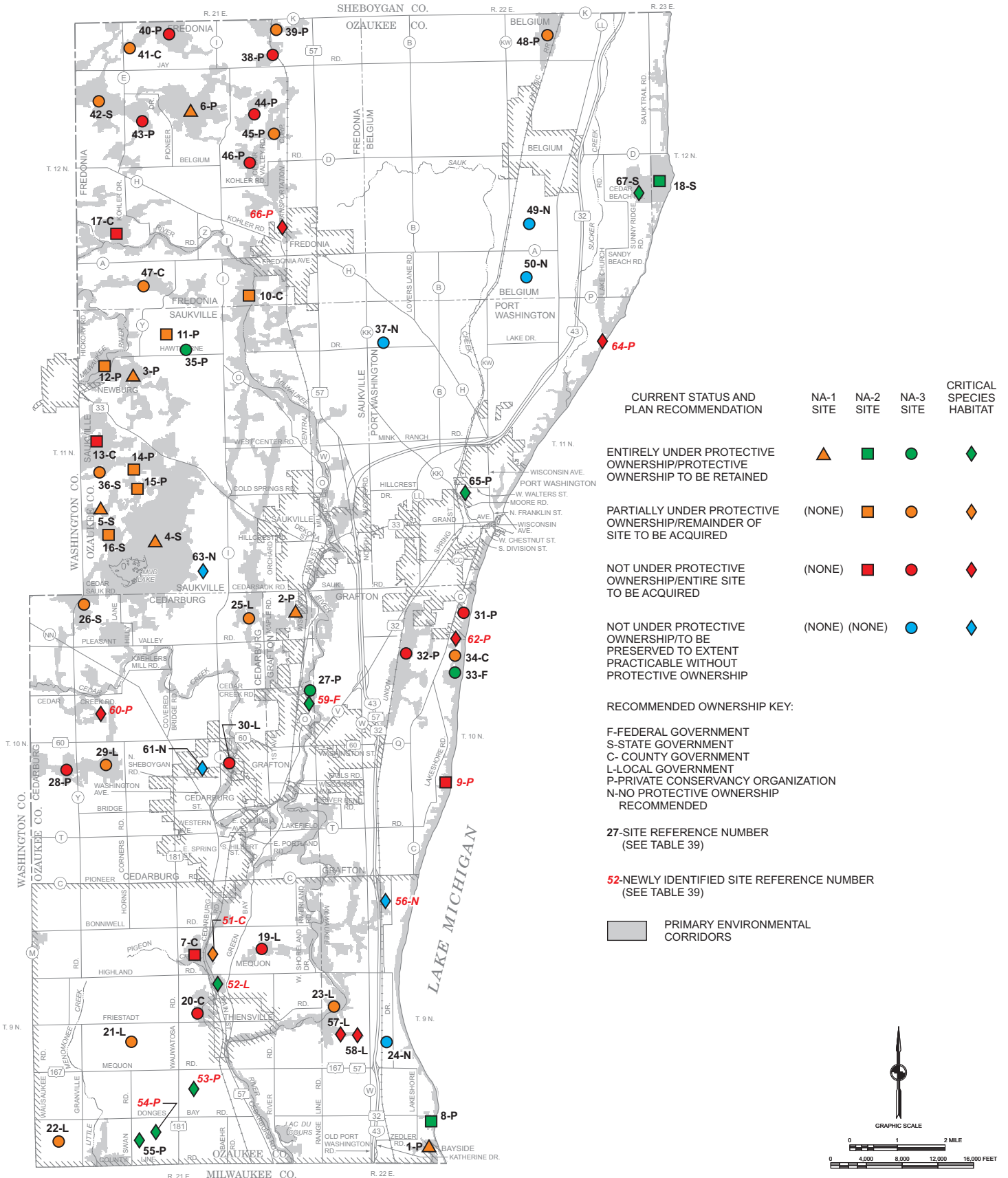


Table 39

KNOWN NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IN OZAUKEE COUNTY: 2009

Map 41 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
1	Fairy Chasm State Natural Area	NA-1 (SNA)	T9N, R22E Sections 32, 33 City of Mequon T8N, R22E Sections 4, 5 Village of Bayside	Ozaukee Washington Land Trust and other private	47 (plus 33 in Milwaukee County)	An 80- to 100-foot-deep wooded ravine which extends approximately 1.25 miles west from its confluence with Lake Michigan. The steep slopes support white pine, white cedar, and yellow birch on the north-facing slopes and dry-mesic hardwoods on the more exposed south-facing slopes. The ravine has special significance because cold air drainage enables several plant species with more northerly affinities to occur this far south. The flora includes the State-designated endangered pine-drops (<i>Pterospora andromedea</i>). The area extends south into Milwaukee County
2	Kurtz Woods State Natural Area	NA-1 (SNA)	T10N, R21E Section 1 Town of Grafton	Ozaukee Washington Land Trust and other private; protected with conservation easement	70	A mature southern mesic hardwoods that is a remnant of the once-extensive pre-settlement forest which covered this part of the Region. Dominated by sugar maple, beech, and white ash, with a moderately rich ground flora. Several small, dry kettle depressions are present. The woods have been undisturbed for at least 75 years. The younger woods to the southeast are important as a buffer
3	Riveredge Creek and Ephemeral Pond State Natural Area	NA-1 (SNA)	T11N, R21E Sections 7, 8 Town of Saukville	Riveredge Nature Center and other private; protected with conservation easement	100	Second-order streams of exceptionally high water quality, fed by three first-order branches, all of which are spring-fed. Contains a stable, well-balanced, diverse fauna. Surrounding vegetation is a complex of second-growth northern wet-mesic forest, conifer swamp, shrub-carr, alder thicket, and young maple-beech and aspen woods. Contains a good population of the forked aster (<i>Aster furcatus</i>), a State-designated threatened species
4	Cedarburg Bog State Natural Area	NA-1 (SNA)	T11N, R21E Sections 19, 20, 21, 28, 29, 30, 31, 32, 33 Town of Saukville	Department of Natural Resources, University of Wisconsin-Milwaukee, and private	2,063	One of the largest and least disturbed bogs in eastern Wisconsin, containing an extensive conifer swamp forest, open bog, a shallow hard-water drainage lake, and mesic woods on isolated islands. A portion of the area contains a string bog, characterized by noticeable ridges running perpendicular to water flow. This is the southernmost example in the world. The very high species diversity includes a large number of regionally rare species, many of which are northern relicts. A National Natural Landmark
5	Sapa Spruce Bog State Natural Area and Black Spruce Bog	NA-1 (SNA)	T11N, R21E Section 30 Town of Saukville	University of Wisconsin and private; protected with conservation easement	63	High-quality acid bog dominated by black spruce at one of its southernmost locations in Wisconsin. The rich, diverse flora includes at least six species of sphagnum moss. Includes privately owned bog adjoining to west

Table 39 (continued)

Map 41 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
6	Huiras Lake Woods and Bog	NA-1	T12N, R21E Sections 8, 9, 10, 16 Town of Fredonia	Department of Natural Resources, Milwaukee Jewish Welfare Fund, and other private; protected with conservation easement by Ozaukee Washington Land Trust	440	Large lowland and upland forested area that has been relatively undisturbed since last cut. A bog is located in the southern portion. Good diversity of tree and ground-layer species. The small, landlocked seepage lake is valuable for waterfowl migration and nesting. A number of northern relict species are present. Of particular interest is the presence of mature, native white pines on several of the upland islands
7	Pigeon Creek Low and Mesic Woods	NA-2	T9N, R21E Section 10 City of Mequon	Private	82	A combination of lowland hardwoods, wet-mesic woods, and upland mesic woods, much of which borders the cold, clear, fast waters of Pigeon Creek. On the grounds of a former fox farm. Known to support four critical plant species: the State-designated endangered heart-leaved plantain (<i>Plantago cordata</i>); the State-designated threatened snow trillium (<i>Trillium nivale</i>) and forked aster (<i>Aster furcatus</i>); and the State-designated special concern chinkapin oak (<i>Quercus muehlenbergii</i>)
8	Donges Bay Gorge	NA-2	T9N, R22E Section 33 City of Mequon	Ozaukee Washington Land Trust	22	A deep, steep-sided clay ravine on the Lake Michigan shore, containing a white pine and beech forest. Northern relict species are present. The area has suffered from erosion and encroaching residential development; additionally, over-grazing by deer has seriously affected the native ground flora
9	Abbott Woods and Ravine	NA-2	T10N, R22E Sections 21, 28 Town of Grafton	Private; protected with conservation easement	31	Mesic woods and white cedar-covered ravines along Lake Michigan
10	Milwaukee River Mesic Woods	NA-2	T11N, R21E Section 3 Town of Saukville T12N, R21E Section 34 Town of Fredonia	Ozaukee County and private	382	Morainal deposits along a two-mile stretch of the Milwaukee River support moderate- to good-quality upland mesic woods, with lowland hardwoods in depressions. Species diversity is generally good throughout
11	Ducks Limited Bog	NA-2	T11N, R21E Section 5 Town of Saukville	Ducks Limited and other private	21	Good-quality sphagnum bog on north side of a shallow lake and bordered by a deep moat. Typical acid-bog species present include leatherleaf, round-leaved sundew, snake-mouth orchid, grass-pink orchid, bog rosemary, blueberry, winter-berry, pitcher plant, and cranberry. Area south of the lake is more disturbed
12	Riveredge Mesic Woods	NA-2	T11N, R21E Sections 6, 7 Town of Saukville	Riveredge Nature Center and other private; protected with conservation easement	212	Good-quality regenerating stand of mesic woods and lowland hardwoods bordering the Milwaukee River. Trees are medium-aged. A variety of habitats supports a rich species complement, including several uncommon species. Disturbed by highway and residences in the southern portion of the woods. Area north of Milwaukee River is wetter and more disturbed, but still diverse. Much of woods owned by Riveredge Nature Center

Table 39 (continued)

Map 41 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
13	Kinnamon Conifer Swamp	NA-2	T11N, R21E Sections 18, 19 Town of Saukville	Private	391	A large wooded lowland, containing a combination of good-quality northern wet-mesic forest of white cedar and northern hardwoods swamp of black ash. Low glacial ridges within the swamp support mesic upland woods. Past disturbance appears, overall, to be minimal. The good, diverse northern understory includes a number of regionally uncommon species
14	Max's Bog	NA-2	T11N, R21E Section 20 Town of Saukville	Private and State of Wisconsin Public Trust Lands	30	Two small, undeveloped, shallow lakes surrounded by good-quality bog mats. The area contains a number of species with more northern affinities
15	South Conifer Swamp	NA-2	T11N, R21E Section 20 Town of Saukville	Private and State of Wisconsin Public Trust Lands	53	Good-quality conifer swamp containing typical northern species. One of the few sites in the Region in which black spruce is present. Small lake is bordered by a narrow cattail fringe. Contains headwaters of Cedarburg Bog
16	Cedarburg Beech Woods State Natural Area	NA-2 (SNA)	T11N, R21E Section 30 Town of Saukville	University of Wisconsin-Milwaukee and private	134	Good-quality, mature, beech- and sugar maple-dominated southern mesic forest in a moraine area of low gravelly hills and kettle holes. Disturbance, including past selective logging and grazing, appears to be minimal. Grades into lowland forest to north and northeast. Historically a site of scientific research
17	Janik's Woods	NA-2	T12N, R21E Sections 29, 30 Town of Fredonia	Private	163	A relatively large, good-quality woodlot that is recovering from past disturbance. Southern portion is an upland containing medium-aged red oak, sugar maple, and basswood, with a diverse ground flora. Lowland hardwoods to the north contain scattered conifers
18	Harrington Beach Lacustrine Forest	NA-2	T12N, R23E Section 19 Town of Belgium	Department of Natural Resources	197	Moderate- to good-quality mature second-growth northern wet-mesic forest, located just west of the shoreline beach ridge. Dominant trees include green and black ashes, basswood, and white cedar. This is a regionally rare community type, heavily used by migratory birds
19	Highland Road Woods	NA-3	T9N, R21E Section 11 City of Mequon	Private	53	Mesic woods of moderate quality dominated by sugar maple, beech, and basswood. Low areas contain ephemeral ponds
20	Pigeon Creek Maple Woods	NA-3	T9N, R21E Section 15 City of Mequon	Private	13	A small but good-quality mesic woods on sloping uplands above Pigeon Creek. Ground flora is very rich and diverse, including a large population of twinleaf (<i>Jeffersonia diphylla</i>), a State-designated special concern species
21	Solar Heights Low Woods	NA-3	T9N, R21E Sections 20, 21 City of Mequon	Private and City of Mequon	116	Disturbed floodplain forest dominated by red and silver maples and yellow birch. Changing water levels and Dutch elm disease have altered the canopy. Native species diversity is low, and exotic species are proliferating

Table 39 (continued)

Map 41 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
22	Triple Woods	NA-3	T9N, R21E Section 31 City of Mequon	Private and City of Mequon	53	Upland mesic forest of sugar maple and beech. Despite past logging, the spring flora is relatively diverse. Offers protection to tributaries of the Little Menomonee River
23	Ville du Parc Riverine Forest	NA-3	T9N, R22E Sections 18, 19 City of Mequon	City of Mequon and private	111	One of the last remnants of riverine forest along this portion of the Milwaukee River. Contains old river channels. The woods is mostly second-growth, with a mixture of upland and lowland species
24	Mequon Wetland	NA-3	T9N, R22E Section 20 City of Mequon	Private	76	A mixed wetland area consisting of deep and shallow marsh, fresh (wet) meadow, shrub-carr, and young wet to wet-mesic lowland hardwoods. Wetland filling and water-level changes due to ditching and channel realignment have disturbed the area
25	Mole Creek Swamp/Pleasant Valley Park Woods	NA-3	T10N, R21E Section 2 Town of Cedarburg	Town and City of Cedarburg; WE Energies; and private	150	Includes a disturbed, low, wooded area bordering Mole Creek, dominated by green ash, alder, and red-osier dogwood; a black ash—mixed hardwood swamp; and a good-quality mesic woods containing a number of Regionally uncommon species
26	Cedar-Sauk Low Woods	NA-3	T10N, R21E Sections 5, 6 Town of Cedarburg T11N, R21E Section 31 Town of Saukville T11N, R20E Section 36 Town of Trenton	Department of Natural Resources and private	210 (plus 14 in Washington County)	Lowland hardwood forest of silver maple, green and black ashes, and American elm, with evidence of abundant past disturbances, including grazing, power-line right-of-way, and two highways. Stream flows through area from Cedarburg Bog
27	Grafton Woods	NA-3	T10N, R21E Section 13 Town of Grafton T10N, R22E Section 18 Town of Grafton	Ozaukee Washington Land Trust; protected with conservation easement	18	Small mesic woods on east side of Milwaukee River. Despite history of grazing and selective cutting, has a good species diversity, including American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
28	Sherman Road Woods	NA-3	T10N, R21E Section 19 Town of Cedarburg	Private	71	Lowland hardwood forest with much second growth due to past grazing
29	Five Corners Swamp	NA-3	T10N, R21E Section 20 Town of Cedarburg	Department of Natural Resources and private	175	A large lowland hardwood forest that is suffering from disturbance, including selective cutting and a network of wide trails. Dominant trees are red and silver maples and cottonwood. A windstorm in June 1991 snapped or uprooted a large number of mature trees
30	Cedar Creek Forest	NA-3	T10N, R21E Section 23 Town of Cedarburg	Private	23	Sugar maple and beech woods on west bank of Cedar Creek. Threatened by encroaching residential development
31	Cedar Heights Gorge	NA-3	T10N, R22E Section 3 Town of Grafton	Private	9	Disturbed, narrow, steep-sided gorge leading to Lake Michigan. Almost complete dominance by white cedar
32	Ulao Lowland Forest	NA-3	T10N, R22E Sections 4, 5, 8, 9, 17 Town of Grafton	Private	342	A large lowland hardwoods area, dominated by red and silver maples and black ash. Adversely affected by changing water levels, selective cutting, and Dutch elm disease, which have opened the canopy. Marshy stands occur throughout

Table 39 (continued)

Map 41 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
33	U.S. Fish and Wildlife Service Area	NA-3	T10N, R22E Sections 9, 10 Town of Grafton	U.S. Fish and Wildlife Service	67	Mix of flooded swamp, old field, clay banks, and young upland woods managed for waterfowl and wildlife. There is a relatively large population of the Regionally uncommon fringed gentian (<i>Gentianopsis crinita</i>)
34	Lions Den Gorge	NA-3	T10N, R22E Section 10 Town of Grafton	Ozaukee County, Ozaukee Washington Land Trust, and private; includes conservation easement	21	Deep ravine on Lake Michigan shore. Dominated by white cedar and hardwoods, with a relatively good-quality herb layer, including a few northern relicts
35	Hansen's Lake Wetland	NA-3	T11N, R21E Section 4 Town of Saukville	Ozaukee Washington Land Trust	16	Small but good-quality lake surrounded by cattails, shrub-carr, and lowland hardwoods, with scattered tamaracks. Lake is stocked with bluegills
36	Knollwood Road Bog	NA-3	T11N, R21E Section 19 Town of Saukville	Private and State of Wisconsin Public Trust Lands; protected with conservation easement	9	Small lake surrounded by a sphagnum mat, shallow marsh, and lowland hardwoods
37	Hawthorne Drive Forest	NA-3	T11N, R22E Section 6 Town of Port Washington	Private	55	Wet-mesic red maple and American elm forest, with an upland forest of red oak, beech, and basswood to the south. Canopy has been opened by disease and logging
38	Spring Lake Beech Forest	NA-3	T12N, R21E Section 2 Town of Fredonia	Private	62	Small mesic hardwood forest dominated by small- to medium-sized beech, sugar maple, basswood, and white ash, with a long history of selective cutting
39	Spring Lake Marsh	NA-3	T12N, R21E Section 2 Town of Fredonia	Private and State of Wisconsin Public Trust Lands	21	Good-quality wetland complex bordering a clear, shallow lake. Good habitat diversity includes shrub-carr, sedge meadow, shallow marsh, and cedar-tamarack swamp
40	County Line Low Woods	NA-3	T12N, R21E Sections 4, 5 Town of Fredonia T13N, R21E Sections 32, 33 Town of Sherman	Private; protected with conservation easement	225 (plus 71 acres in Sheboygan County)	Large but mostly young lowland hardwoods of mixed composition and having history of disturbance. Many openings in canopy allow dense undergrowth. Extends north into Sheboygan County
41	Beekeeper Bog	NA-3	T12N, R21E Section 5 Town of Fredonia	Ozaukee County and private; protected with conservation easement	21	Good example of a typical kettle-hole bog with shallow marsh, shrub-carr, and northern wet-mesic white cedar forest. The southeastern portion has been ditched. Contains a good number of species with more northerly affinities
42	Department of Natural Resources Lowlands	NA-3	T12N, R21E Section 7 Town of Fredonia	Department of Natural Resources and private	187	Primarily a disturbed lowland hardwood forest with streams. Ponds have been dredged by Department of Natural Resources
43	Pioneer Road Lowlands	NA-3	T12N, R21E Sections 8, 17 Town of Fredonia	Private; protected with conservation easement	93	A low, wet woodlot with a history of disturbance. North half contains a dense stand of tamarack, cedar, and black ash, with some large individual trees. South half has large scattered trees and thick undergrowth

Table 39 (continued)

Map 41 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
44	Cedar Valley Swamp	NA-3	T12N, R21E Sections 10, 11, 15 Town of Fredonia	Private	140	An irregularly shaped lowland area disturbed by Dutch elm disease, logging, and water-level changes. Dominated by black ash, red maple, and white cedar, with small areas of tamarack. A small upland island in the center contains mature trees
45	Evergreen Road Bog	NA-3	T12N, R21E Section 14 Town of Fredonia	Private and State of Wisconsin Public Trust Lands	44	Good-quality tamarack-cedar bog, with a large sedge-shrub area to the north and an upland hardwoods to the southeast. Threatened by residential development
46	Kohler Road Woods	NA-3	T12N, R21E Sections 15, 22 Town of Fredonia	Private	128	Primarily a low, wet woods of medium-aged red and silver maples, yellow birch, and black ash. South half is younger, with many cut stumps
47	Waubeka Low Woods	NA-3	T12N, R21E Sections 31, 32 Town of Fredonia	Ozaukee County and private; protected with conservation easement	162	Primarily a wooded lowland of tamarack, black ash, and yellow birch, but with glacial ridges containing upland trees. There is a history of disturbance
48	Cedar Grove Swamp	NA-3	T12N, R22E Sections 2, 3 Town of Belgium	Private and U.S. Fish and Wildlife Service	185	Extensive second-growth forest on ditched lacustrine flats with clayey soils. Dominated by red and silver maples, black ash, yellow birch, American elm, and swamp white oak. Repeatedly logged and encroached on by agriculture and ditching
49	Belgium Swamp—North	NA-3	T12N, R22E Section 27 Town of Belgium	Private	152	An extensive, but young, lacustrine forest 2.5 miles from Lake Michigan, with American elm, black ash, and red and silver maples. Disease, logging, and windthrow have opened the canopy, permitting a brushy understory to develop
50	Belgium Swamp—South	NA-3	T12N, R22E Section 34 Town of Belgium	Private	148	Low, flat, wet forested area of black ash and silver and red maples, with some yellow birch and basswood. Old windfalls and dead standing trees are common. There is a history of disturbance, resulting in a very open and brushy appearance
51	Mee-kwon Park Woods	CSH	T9N, R21E Section 10 City of Mequon	Ozaukee County and private	40	Mesic woodland and shrubland partially within county park
52	Highland Woods	CSH	T9N, R21E Section 15 City of Mequon	City of Mequon; conservation easement with Ozaukee Washington Land Trust	48	Small, moderate-quality mesic woodlot
53	Garvey Woods	CSH	T9N, R21E Section 27 City of Mequon	Private	10	Moderate-quality mesic woodlot
54	Gengler's Woods	CSH	T9N, R21E Section 33 City of Mequon	Ozaukee Washington Land Trust	4	Small beech-maple woods on grounds of Mequon Nature Preserve
55	Stauss Woods	CSH	T9N, R21E Section 33 City of Mequon	Ozaukee Washington Land Trust	8	Small, but relatively good quality complex of beech-maple woods and lowland hardwoods on grounds of Mequon Nature Preserve
56	Union Pacific Right-of-Way	CSH	T9N, R22E Section 5 City of Mequon	Private	1	Small portion of railway right-of-way supporting a population of the State-designated threatened forked aster (<i>Aster furcatus</i>)

Table 39 (continued)

Map 41 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
57	Eastbrook Road Woods	CSH	T9N, R22E Section 19 City of Mequon	Private	9	Small mesic woodlot supports a good population of the State-designated threatened forked aster (<i>Aster furcatus</i>)
58	Pecard Sedge Meadow	CSH	T9N, R22E Section 19 City of Mequon	Private	16	Moderate-quality sedge meadow and shallow marsh
59	Bike Path Island	CSH	T10N, R21E Section 13 Town of Grafton	Bureau of Land Management	1	Island in Milwaukee River supports sweet Indian plantain (<i>Hasteola suaveolens</i>), a State-designated special concern species
60	Woodland Meadows Woods	CSH	T10N, R21E Section 17 Town of Cedarburg	Private	40	Moderate-quality mesic and wet-mesic forested woodlot
61	Cedarburg Woods—West	CSH	T10N, R21E Section 22 Town of Cedarburg	Private	4	Small mesic woodlot that supports goldenseal (<i>Hydrastis canadensis</i>), a State-designated special concern species
62	Port Washington Clay Banks	CSH	T10N, R22E Sections 3, 10 Town of Grafton	Private	35	Semi-wooded upland clay banks above Lake Michigan provide critical bird species habitat
63	Cedar-Sauk Upland Woods	CSH	T11N, R21E Section 33 Town of Saukville	Private	44	Mesic woodlot being disturbed by residential development
64	Port Washington Beach and Dunes	CSH	T11N, R22E Sections 1, 11 Town of Port Washington	Private	29	A stretch of beach and dunes containing several critical plant species restricted in Wisconsin to the Lake Michigan shore
65	Sauk Creek Nature Preserve	CSH	T11N, R22E Section 29 Town of Port Washington	Ozaukee Washington Land Trust	13	Woodland bordering Sauk Creek containing a population of the State-designated threatened forked aster (<i>Aster furcatus</i>)
66	Heinen Woods	CSH	T12N, R21E Section 26 Town of Fredonia	Private	32	Small population of State-designated threatened forked aster (<i>Aster furcatus</i>) within a woodlot of moderate quality
67	Harrington Beach Old Fields	CSH	T12N, R22E Section 24 Town of Belgium	Department of Natural Resources	395	Large artificial grassland area that provides nesting habitat for grassland breeding birds

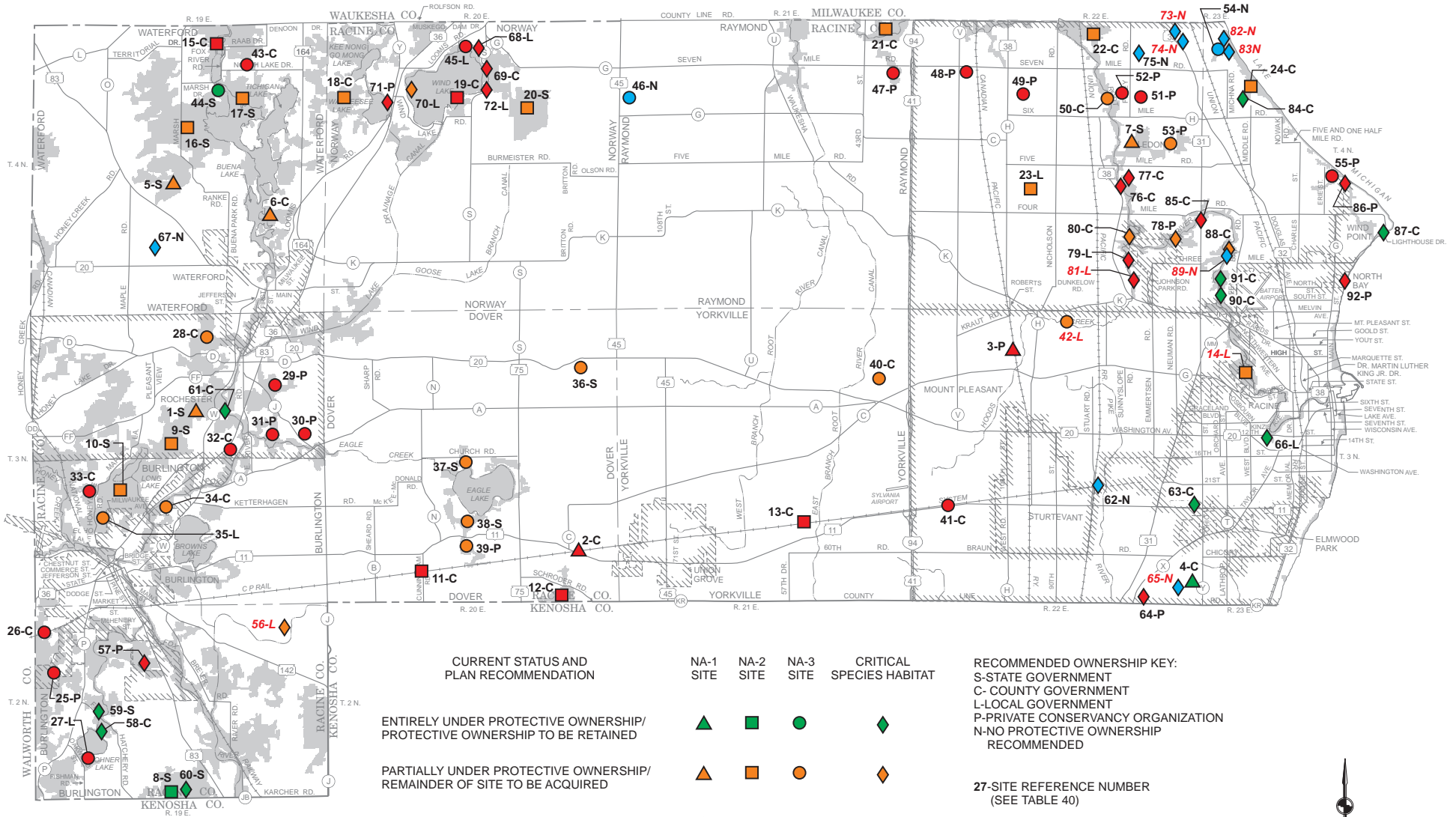
Note: Shaded areas indicate new areas.

Source: SEWRPC.

This includes 94 sites where protective acquisition of the entire site has been completed. Under the plan, the remaining 42.5 square miles would also be placed under protective ownership to ensure permanent preservation. This includes the expansion of such ownership for 188 sites already partially in protective ownership, plus the acquisition of 153 sites where protective acquisition has not yet been initiated.

3. The third-highest acquisition priority be accorded to those Critical Species Habitat sites which are not wholly contained within a designated Natural Area, but which either are located within a Commission-delineated primary environmental corridor or are already at least partially in public or private conservation protective ownership. A total of 200 of the identified 271 Critical Species Habitat sites are included in this priority group. These 200 sites encompass about 29.2 square miles, or about 1.1 percent of the total area of the Region. Of that total, about 21.4 square miles, or 74 percent, have already been placed under protective public or private ownership. This includes 76 sites where protective acquisition of the entire site has been completed. Under the plan, the remaining 7.8 square miles would also be placed under protective ownership to ensure permanent preservation. This includes the expansion of such ownership for 27 sites already partially in protective ownership, plus the acquisition of 97 sites where protective acquisition has not yet begun.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN RACINE COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION

- ENTIRELY UNDER PROTECTIVE OWNERSHIP/
PROTECTIVE OWNERSHIP TO BE RETAINED
- PARTIALLY UNDER PROTECTIVE OWNERSHIP/
REMAINDER OF SITE TO BE ACQUIRED
- NOT UNDER PROTECTIVE OWNERSHIP/
ENTIRE SITE TO BE ACQUIRED
- NOT UNDER PROTECTIVE OWNERSHIP/
TO BE PRESERVED TO EXTENT PRACTICABLE
WITHOUT PROTECTIVE OWNERSHIP

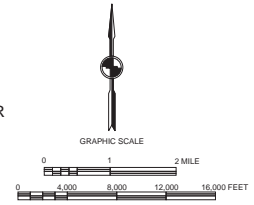
NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
▲	■	●	◆
▲	■	●	◆
▲	■	●	◆
(NONE)	(NONE)	●	◆

RECOMMENDED OWNERSHIP KEY:
 S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP
 RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 40)

28-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 40)

PRIMARY ENVIRONMENTAL CORRIDORS



Source: SEWRPC.

Table 40

KNOWN NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IN RACINE COUNTY: 2009

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
1	Cherry Lake Sedge Meadow State Natural Area	NA-1 (SNA)	T3N, R19E Sections 10, 15 Village of Rochester	Department of Natural Resources and private	190	High-quality lowland complex of fen, wet prairie, sedge meadow, shrub-carr, shallow lake, and tamarack relict within a matrix of disturbed upland oak woods. A good combination of alkaline- and acid-loving plant is present. The irregular openings of water provide good nesting and escape cover for waterfowl, especially mallards, wood ducks, and blue-winged teals. The western border is a one-mile-long esker
2	Kansasville Railroad Prairie	NA-1	T3N, R20E Sections 25, 26, 35, 36 Town of Dover T3N, R21E Section 30 Town of Yorkville	Private	28	Discontinuous remnants of mesic prairie located along railway right-of-way between Union Grove and Kansasville. Small sections are of very high quality, representing the best remaining examples of the once-extensive mesic prairie of central Racine and Kenosha counties. Also included is a large old field which has been plowed but in which native prairie species have either persisted or are reinvading from the adjacent railway right-of-way. This latter area could be important for prairie reestablishment
3	Franksville Railroad Prairie	NA-1	T3N, R22E Sections 4, 9 Village of Mt. Pleasant	Private	4	A very rich and diverse remnant of mesic and wet-mesic prairie, located on west side of railway right-of-way. Contains some of the best such remnants in the Region. Regionally uncommon species include wild quinine (<i>Parthenium integrifolium</i>), prairie Indian plantain (<i>Cacalia tuberosa</i>), and marsh blazing-star (<i>Liatris spicata</i>)
4	Sanders Park Hardwoods State Natural Area	NA-1 (SNA)	T3N, R22E Section 36 Village of Mt. Pleasant	Racine County	56	Good-quality southern dry-mesic forest on two low ridges separated by a lowland swale. Good size-class distribution of tree species, including a number of large walnuts. The ground flora is rich and diverse, including several large patches of goldenseal (<i>Hydrastis canadensis</i>), a State-designated special concern species
5	Tichigan Fen, Springs, and Woods	NA-1	T4N, R19E Sections 21, 22 Town of Waterford	Department of Natural Resources and private	131	A fine example of springs and calcareous fen, with a number of uncommon species present. The site includes the lesser-quality upland woods to the south that protects the water sources of the springs
6	Elm Island Bog— Island Oak Woods	NA-1	T4N, R19E Sections 23, 24, 25, 26 Town of Waterford	Racine County and private	67	Two distinct plant communities of good quality are present—an upland wooded island dominated by red and white oaks without signs of past logging or grazing is bordered on the east by a sphagnum-tamarack bog with a number of characteristic bog species present

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
7	Renak-Polak Maple-Beech Woods State Natural Area	NA-1 (SNA)	T4N, R22E Section 14 Village of Caledonia	University of Wisconsin—Parkside and private	138	Outstanding, mostly old-growth low-lying southern mesic forest on east side of Root River. Wet-mesic hardwoods, shrub-carr, and shallow marsh lie along an intermittent stream which crosses the tract. Noted for spectacular displays of spring wildflowers. Probably the best such woods remaining in the Region
8	Karcher Springs State Natural Area	NA-2 (SNA)	T2N, R19E Section 21 Town of Burlington	Department of Natural Resources	19	Spring heads originating on east side of a wooded esker supply water for a clear, fast, cold, marl bottomed stream. Along banks is found calcareous fen, habitat for a number of uncommon species
9	Brock Lake Fen	NA-2	T3N, R19E Sections 15, 16, 21 Village of Rochester	Department of Natural Resources and private	231	High-quality wetland complex of fen, shallow marsh, sedge meadow, and small, undeveloped lake. The rich native species complement includes a number of uncommon ones, such as beaked spike-rush (<i>Eleocharis rostellata</i>), Ohio goldenrod (<i>Solidago ohioensis</i>), common bog arrow-grass (<i>Triglochin maritima</i>), and marsh blazing-star (<i>Liatris spicata</i>). An integral part of a long northeast-southwest lowland corridor
10	Leda Lake Fen-Meadow	NA-2	T3N, R19E Sections 20, 21 29 Village of Rochester	Department of Natural Resources and private	222	Good-quality wetland complex of small, shallow, undeveloped lake, floating sedge mat, fen, sedge meadow, shrub-carr, and shallow cattail-bulrush marsh. Part of Cherry Lake—Brock Lake—Leda Lake environmental corridor
11	Rosewood Railroad Prairie	NA-2	T3N, R20E Sections 31, 32, 33, 34 Town of Dover	Private	25	Discontinuous remnants of mesic prairie extending for three miles along deactivated railway right-of-way between Kansasville and Rosewood. Moderate quality overall, with small portions in better condition. Good diversity of native species, including a number of uncommon species
12	Schroeder Road Marsh	NA-2	T3N, R20E Sections 35, 36 Town of Dover T2N, R20E Sections 1, 2 Town of Brighton	Private	77 (plus 111 in Kenosha County)	Large wetland area of shallow cattail marsh and sedge meadow that extends into Kenosha County. Perimeter has been disturbed but interior is intact
13	Union Grove Railroad Prairie	NA-2	T3N, R21E Sections 25, 26, 27, 28, 29 Town of Yorkville	Private	44	Discontinuous remnants of mesic prairie along railway right-of-way, extending east from Union Grove to IH 94. Some small patches are of very good quality, containing such uncommon species as wild quinine (<i>Parthenium integrifolium</i>) and prairie Indian plantain (<i>Cacalia tuberosa</i>), both designated as threatened in Wisconsin
14	Colonial Park Woods	NA-2	T3N, R23E Section 8 City of Racine	City of Racine and private	94	Complex of lowland hardwoods, floodplain forest, and upland mesic to dry-mesic woods bordering the Root River. A number of uncommon species are present, including the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>) and the State-designated threatened forked aster (<i>Aster furcatus</i>)

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
15	Norris Marsh and Slough	NA-2	T4N, R19E Sections 2, 3, 10 Town of Waterford	Private	183 (plus 26 in Waukesha County)	Good-quality deep and shallow marsh along the Fox River
16	Tichigan Marsh	NA-2	T4N, R19E Sections 9, 10, 15, 16 Town of Waterford	Department of Natural Resources and private	466	Large, good-quality deep and shallow marsh with patches of sedge meadow, bordering Tichigan Lake. Department of Natural Resources has excavated a series of ponds for wildlife
17	Tichigan Wetlands and Low Woods	NA-2	T4N, R19E Sections 10, 11 Town of Waterford	Department of Natural Resources and private	170	Wetland-upland complex consisting of good-quality deep and shallow marsh and sedge meadow bordered on north by older dry, dry-mesic, and wet-mesic woods, and regenerating woods and old field
18	Waubeesee Oak Woods and Tamarack Relict	NA-2	T4N, R20E Section 7 Town of Norway	Racine County and private	187	Relatively large and mostly intact oak woods on rough glacial topography, with intervening wetlands in depressions, some of which contain relict tamaracks. This is one of the few woods of such size remaining in this rapidly developing part of the Region
19	Wind Lake Shrub-Fen	NA-2	T4N, R20E Section 9 Town of Norway	Private	21	Good-quality wetland complex of fen and shrub-carr on south end of Wind Lake. Contains a good population of Ohio goldenrod (<i>Solidago ohioensis</i>)
20	Wind Lake Tamarack Swamp	NA-2	T4N, R20E Sections 10, 11, 14, 15 Town of Norway	Department of Natural Resources and private	334	Large block of former tamarack swamp that is converting to lowland hardwoods due to hydrologic changes resulting from artificial drainage of surrounding agricultural land. This woods remains a refugium for many species with more northerly affinities, such as starflower, goldthread, winterberry, dwarf raspberry, yellow birch, bunchberry, and blueberry
21	County Line Riverine Woods	NA-2	T4N, R21E Section 1 Town of Raymond	Racine County and private	141	Good-quality riverine lowland hardwood forest along the Root River. Smaller upland to north-west contains mesic hardwoods with a rich ground flora. An integral part of the Root River environmental corridor
22	Hunts Woods	NA-2	T4N, R22E Section 3 Village of Caledonia	Racine County and private	36	A small but undisturbed remnant of southern mesic hardwoods, dominated by mature beeches and sugar maples. The woods to the south and east are younger, while to the north are lowland hardwoods. The relatively rich ground flora includes the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
23	Caledonia Wildlife Area	NA-2	T4N, R22E Section 21 Village of Caledonia	Village of Caledonia and private	166	An open wetland with seasonal ponds that attract a large number of migrating birds such as whistling swans, snow geese, golden plovers, and willets. The pond is one of the few secure stopover areas in the Region, and it is a very good observation area

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
24	Cliffside Park Woods and Clay Banks	NA-2	T4N, R23E Sections 7, 8 Village of Caledonia	Racine County, Village of Caledonia, and private	55	Second-growth mesic woods, ravine, and steep clay banks along Lake Michigan harbor a rich and diverse flora, including such uncommon species as buffaloberry, cream gentian, stiff gentian, balsam poplar, and blue-stemmed goldenrod
25	Burlington Hills Woods	NA-3	T2N, R19E Sections 5, 6, 7, 18 Town of Burlington T2N, R18E Sections 1, 12, 13 Town of Lyons	Private, plus a portion of site in Walworth County protected through conservation easement with Geneva Lakes Conservancy	416 (plus 86 in Walworth County)	Rough morainal ridges occupied by mature and second-growth oak woods, with small, scattered patches of dry hill prairie and disturbed openings. Largest remaining upland woods in Racine County; important for forest-interior-breeding birds. However, ongoing sand and gravel mine operations have reduced the wooded acreage
26	Burlington Railroad Prairie	NA-3	T2N, R19E Section 6 Town of Burlington T2N, R18E Section 1 Town of Lyons	Private	5 (plus 1 in Walworth County)	One-quarter-mile stretch of mesic, dry-mesic, and dry prairie remnants bordering railway right-of-way
27	Bohner Lake Lowlands	NA-3	T2N, R19E Sections 19, 20 Town of Burlington	Private	33	Moderate-quality combination of shallow marsh, sedge meadow, and shrub-carr
28	Wadewitz Woods	NA-3	T3N, R19E Sections 2, 3 Village of Rochester	Racine County and private	204	Large upland complex of disturbed oak woods and former oak openings, cedar glades, dry-mesic woods, small dry hill prairie, and older woods
29	Rowntree Road Woods	NA-3	T3N, R19E Sections 11, 12 Village of Rochester	Private	77	A typical xeric oak woods, with several wet areas containing lowland hardwoods. An active blue heron rookery is present
30	English Settlement Prairie	NA-3	T3N, R19E Section 13 Village of Rochester	Private	16	Moderate-quality wet-mesic prairie with a history of disturbance, including plowing and grazing
31	Eagle Creek Woods	NA-3	T3N, R19E Sections 13, 14 Village of Rochester	Private	84	Typical xeric oak woods—relatively large but with a history of grazing and selective cutting
32	Fox River Prairie	NA-3	T3N, R19E Sections 14, 15 Village of Rochester	Private	2	Small prairie remnants along former railway right-of-way, now a county bicycle trail. Area consists of two separate patches—a hill to the south contains a small, depauperate dry prairie, while to the north a low area contains a larger and better-quality mesic and wet-mesic prairie
33	Honey Lake Leatherleaf Bog	NA-3	T3N, R19E Sections 19, 20 Town of Burlington	Private	63	A large monotypic leatherleaf bog relict, rare in the southern part of the Region
34	Fox River Riverine Forest	NA-3	T3N, R19E Sections 21, 22, 28 Town of Burlington	Racine County and private	131	Lowland and upland woods bordering the Fox River
35	Wehmhoff Park Upland Woods and Wetlands	NA-3	T3N, R19E Section 29 Town of Burlington	Town of Burlington and private	80	Moderate-quality sedge meadow-shallow marsh wetlands, located within an upland matrix of disturbed oak woods and dry hill prairie on hilly glacial terrain
36	Dover Wildlife Area Wetlands	NA-3	T3N, R20E Section 12 Town of Dover	Department of Natural Resources and private	49	Wetland complex maintained by Department of Natural Resources as wildlife refuge, consisting of shallow open water, shallow marsh, shrub-carr, and small wet-mesic prairie

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
37	Church Road Lowlands	NA-3	T3N, R20E Sections 16, 21 Town of Dover	Department of Natural Resources and private	24	Sedge meadow and shallow marsh on north shore of Eagle Lake
38	Eagle Lake Wetlands	NA-3	T3N, R20E Sections 27, 28 Town of Dover	Department of Natural Resources and private	46	Shallow marsh and shrub-carr on south shore of Eagle Lake. Disturbed by past ditching attempts
39	Vandenboom Road Marsh	NA-3	T3N, R20E Section 28 Town of Dover	Private and State of Wisconsin Public Trust Lands	27	Shallow, cattail-dominated marsh
40	Ives Grove Woods	NA-3	T3N, R21E Section 12 Town of Yorkville	Racine County and private	140	Relatively large upland wooded island, consisting of dry-mesic woods to south and xeric woods to north. Much of south woods is part of Racine County park. The ground flora is rich and diverse. A small stream bisects the two woods
41	Sylvania Railroad Prairie	NA-3	T3N, R22E Sections 20, 30 Village of Mt. Pleasant	Private	11	Mesic prairie remnant extending one mile east of IH 94 along railway right-of-way. Moderate quality, with a good population of wild quinine (<i>Parthenium integrifolium</i>), a State-designated threatened species
42	Hoods Creek Woods	NA-3	T3N, R22E Section 3 Village of Mt. Pleasant	Village of Mt. Pleasant and private	72	Mix of upland and lowland woods along Hoods Creek
43	Van Valin Woods	NA-3	T4N, R19E Section 2 Town of Waterford	Private	26	Moderate-quality dry-mesic woods dominated by white oak, shagbark hickory, white ash, and sugar maple. Threatened by encroaching residential development
44	Tichigan Wet Prairie	NA-3	T4N, R19E Section 10 Town of Waterford	Department of Natural Resources	16	Moderate- to good-quality combination of wet prairie, sedge meadow, and shallow marsh, with some calciphiles, such as Ohio goldenrod (<i>Solidago ohioensis</i>), present. Site is burned periodically to control shrubs
45	Wind Lake Wet Meadow	NA-3	T4N, R20E Section 4 Town of Norway	Private	11	A moderate-quality wetland complex of wet meadow, fen, shallow marsh, and sedge meadow on north shore of Wind Lake. Contains marsh blazing-star (<i>Liatris spicata</i>), a State-designated special concern species
46	Six Mile Road Swamp	NA-3	T4N, R21E Section 7 Town of Raymond	Private	55	Lowland hardwood forest of moderate quality, with a few northern relicts, such as tamarack (mostly dead), winterberry, paper birch, dwarf raspberry, and sphagnum. Dry-mesic upland woods border on the south
47	Kimmel Woods	NA-3	T4N, R21E Section 12 Town of Raymond	Private	40	Moderate-quality southern dry-mesic woods and lowland hardwoods bordering a small stream. Good, representative ground flora
48	Seven Mile Road Woods	NA-3	T4N, R22E Section 8 Village of Caledonia	Private	20	Second-growth maple-ash-oak woods of about 75 years of age that has been subjected to past selective cutting. Contains a rich and diverse ground flora. Low areas contain ephemeral ponds

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
49	Zirbes Woods	NA-3	T4N, R22E Section 9 Village of Caledonia	Private	13	A small but relatively undisturbed mesic woods dominated by basswood, white ash, red oak, and sugar maple, with a rich ground flora. Future high-grading is indicated by a number of the larger oaks which were marked
50	Caledonia Low Woods	NA-3	T4N, R22E Sections 10, 11, 14 Village of Caledonia	Racine County and private	107	Moderate-quality lowland hardwoods bordering the Root River. Adjoining upland woods contains three State-designated special concern species: American gromwell (<i>Lithospermum latifolium</i>), red trillium (<i>Trillium recurvatum</i>), and black haw (<i>Viburnum prunifolium</i>)
51	Foley Road Woods—East	NA-3	T4N, R22E Section 11 Village of Caledonia	Private	24	Moderate-quality mesic woods with a rich ground flora; reportedly contains the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>)
52	Foley Road Woods—West	NA-3	T4N, R22E Section 11 Village of Caledonia	Private	19	Medium-age mesic and wet-mesic woods with a large population of black haw (<i>Viburnum prunifolium</i>)
53	Tabor Woods	NA-3	T4N, R22E Sections 13, 14 Village of Caledonia	Caledonia Conservancy and other private	106	Relatively large but irregularly shaped mesic, dry-mesic, and wet-mesic woods that have suffered various degrees of disturbance. Portions of the woods are dominated by beech. Threatened by increasing residential development in the area
54	Power Plant Ravine Woods	NA-3	T4N, R23E Section 6 Village of Caledonia	WE Energies	32	Mesic woods bordering a steep ravine that leads to Lake Michigan. Although the woods has suffered from disturbance, it contains a rich flora, including a large population of the State-designated endangered blue-stemmed goldenrod (<i>Solidago caesia</i>). The exposed ravine slopes and Lake Michigan clay banks contain a number of unusual species
55	Dominican Ravine	NA-3	T4N, R23E Section 21 Village of Caledonia	Private	18	Small woodland containing blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species
56	Mt. Tom Woods	CSH	T2N, R19E Sections 1, 12 Town of Burlington T2N, R20E Sections 6, 7 Town of Brighton	Private and Town of Burlington	21 (plus 3 in Kenosha County)	Hilly woodland on border of Kenosha and Racine counties
57	Burlington Crevasse Filling	CSH	T2N, R19E Section 4 Town of Burlington	Private	34	Semi-open woodland supporting a small population of the State-designated threatened kittentails (<i>Besseyia bullii</i>)
58	Margis Wildlife Area	CSH	T2N, R19E Section 17 Town of Burlington	Racine County	36	Small areas of wetland bordering open water contain lesser fringed gentian (<i>Gentianopsis procera</i>), a State-designated special concern species
59	Ranger Mac Fen	CSH	T2N, R19E Section 17 Town of Burlington	University of Wisconsin—Parkside	22	Lowland shrubland with small areas of fen and associated species

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
60	Karcher Sedge-Carr	CSH	T2N, R19E Sections 21, 22 Town of Burlington	Department of Natural Resources	249	Open wetland complex with a small population of prairie Indian plantain (<i>Cacalia tuberosa</i>), a State-designated threatened species
61	Case-Eagle Park	CSH	T3N, R19E Sections 10, 14, 15 Village of Rochester	Racine County	111	Disturbed oak woodland with small depauperate patches of dry prairie; the State-designated threatened kittentails (<i>Besseyia bullii</i>) is present at low densities
62	Waxdale Railroad Prairie	CSH	T3N, R22E Sections 15, 22 Village of Mt. Pleasant	Private	1	Small, disturbed patches of remnant prairie supporting two critical species: wild quinine (<i>Parthenium integrifolium</i>) and waxy meadow rue (<i>Thalictrum revolutum</i>)
63	Pritchard Park Woods	CSH	T3N, R22E Section 24 Village of Mt. Pleasant	Racine County	10	Small remnant of dry-mesic and wet-mesic woods containing the State-designated special concern red trillium (<i>Trillium recurvatum</i>)
64	Campbell Woods	CSH	T3N, R22E Sections 35, 36 Village of Mt. Pleasant	Private	43	Formerly of NA-3 status, extensive residential development has reduced the wooded acreage. The State-designated special concern red trillium (<i>Trillium recurvatum</i>) remains
65	Willow Woods	CSH	T3N, R22E Section 36 Village of Mt. Pleasant	Private	4	Small woodland supporting red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
66	Washington Park Woods	CSH	T3N, R23E Section 17 City of Racine	City of Racine	14	Disturbed, very open mesic woods, but with a substantial population of blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species
67	Maple Road Gravel Pit	CSH	T4N, R19E Section 28 Town of Waterford	Private	102	Small patches of disturbed, open woodland bordering gravel pit that contains a small population of the State-designated threatened kittentails (<i>Besseyia bullii</i>)
68	Erwin Wetlands	CSH	T4N, R20E Section 3 Town of Norway	Private	2	Disturbed prairie-fen supporting Ohio goldenrod (<i>Solidago ohioensis</i>), a State-designated special concern species
69	Patzke Fen	CSH	T4N, R20E Section 3 Town of Norway	Private	33	Disturbed prairie-fen supporting Ohio goldenrod (<i>Solidago ohioensis</i>), a State-designated special concern species
70	Wind Lake	CSH	T4N, R20E Sections 3, 4, 8, 9, 10, 16, 17 Town of Norway	Department of Natural Resources and private	58	Wetlands bordering Wind Lake providing nesting habitat for black terns and Forster's terns
71	Waubeesee Lake	CSH	T4N, R20E Section 8 Town of Norway	Private	16	Wetlands bordering Waubeesee Lake providing nesting habitat for black terns and Forster's terns
72	Landon Wetland	CSH	T4N, R20E Section 10 Town of Norway	Private	12	Disturbed prairie-fen supporting Ohio goldenrod (<i>Solidago ohioensis</i>), a State-designated special concern species
73	WEPCO Oak Woods	CSH	T4N, R22E Section 1 Village of Caledonia	WE Energies	14	Small woodland on grounds of Oak Creek Power Plant containing blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
74	WEPCO Woods	CSH	T4N, R22E Section 1 Village of Caledonia	WE Energies	18	Small woodland on grounds of Oak Creek Power Plant containing blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species
75	Sherwood Property	CSH	T4N, R22E Section 2 Village of Caldeonia	Private	4	Wetland containing a population of hoplike sedge (<i>Carex lupuliformis</i>), a State-designated endangered species
76	Forked Aster Site	CSH	T4N, R22E Section 23 Village of Caldeonia	Private	18	Woodland supporting forked aster (<i>Aster furcatus</i>), a State-designated threatened species
77	River Meadow Woods	CSH	T4N, R22E Section 23 Village of Caldeonia	Private	14	Small woodland supporting red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
78	Caledonia Sanitary Sewer Right-of-Way	CSH	T4N, R22E Section 25 Village of Caldeonia	Caledonia Conservancy and other private	94	Shrubland containing blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species, and two species of special concern
79	Hoods Creek Swamp	CSH	T4N, R22E Section 26 Village of Caledonia	Private	13	Small woodland supporting red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
80	Root River Bluff	CSH	T4N, R22E Section 26 Village of Caledonia	Private and Racine County	50	Small woodland supporting hoptree (<i>Ptelea trifoliata</i>), a State-designated special concern species
81	STH 38/CTH K	CSH	T4N, R22E Section 35 Village of Caledonia	Private	4	Small woodland supporting red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
82	Lakeside Woods	CSH	T4N, R23E Section 6 Village of Caledonia	WE Energies	2	Small woodland on grounds of Oak Creek Power Plant containing blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species
83	Wood Duck Woods	CSH	T4N, R23E Section 6 Village of Caledonia	WE Energies	3	Small woodland on grounds of Oak Creek Power Plant containing blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species
84	Cliffside Park Old Field	CSH	T4N, R23E Sections 7, 8 Village of Caledonia	Racine County	55	Old field/grassland complex within county park containing breeding habitat for a number of grassland-nesting birds
85	Four Mile Road Woods	CSH	T4N, R23E Sections 19, 30 Village of Caledonia	Private	31	Small woodland supporting red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
86	Wind Point Ravine Woods	CSH	T4N, R23E Sections 21, 22, 27 Village of Wind Point and Village of Caledonia	Private	14	Small ravine woodland supporting red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
87	Wind Point	CSH	T4N, R23E Section 27 Village of Wind Point	Racine County	4	Portion of Lake Michigan sand beach supporting sea rocket (<i>Cakile edentula</i>), a State-designated special concern species
88	Caledonia Low Woods—South	CSH	T4N, R23E Section 30 Village of Caledonia	Private and Racine County	30	Small woodland supporting two State-designated special concern species: red trillium (<i>Trillium recurvatum</i>) and hoptree (<i>Ptelea trifoliata</i>)

Table 40 (continued)

Map 42 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
89	Root River Ravine Woods	CSH	T4N R23E Section 30 Village of Caledonia	Private	5	Small woodland supporting red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
90	Root River Strip Woods	CSH	T4N, R23E Section 31 Village of Caledonia	Racine County	2	Small woodland supporting a State-designated special concern species, hoptree (<i>Ptelea trifoliata</i>)
91	River Bend Upland Woods	CSH	T4N, R23E Section 31 Village of Caledonia	Racine County	14	Dry-mesic woods containing blue-stemmed goldenrod (<i>Solidago caesia</i>), a State-designated endangered species
92	North Bay Ravine and Beach	CSH	T4N, R23E Section 33 Village of Caledonia	Private	2	Portion of Lake Michigan sand beach supporting sea rocket (<i>Cakile edentula</i>), a State-designated special concern species

Note: Shaded areas indicate new areas.

Source: SEWRPC.

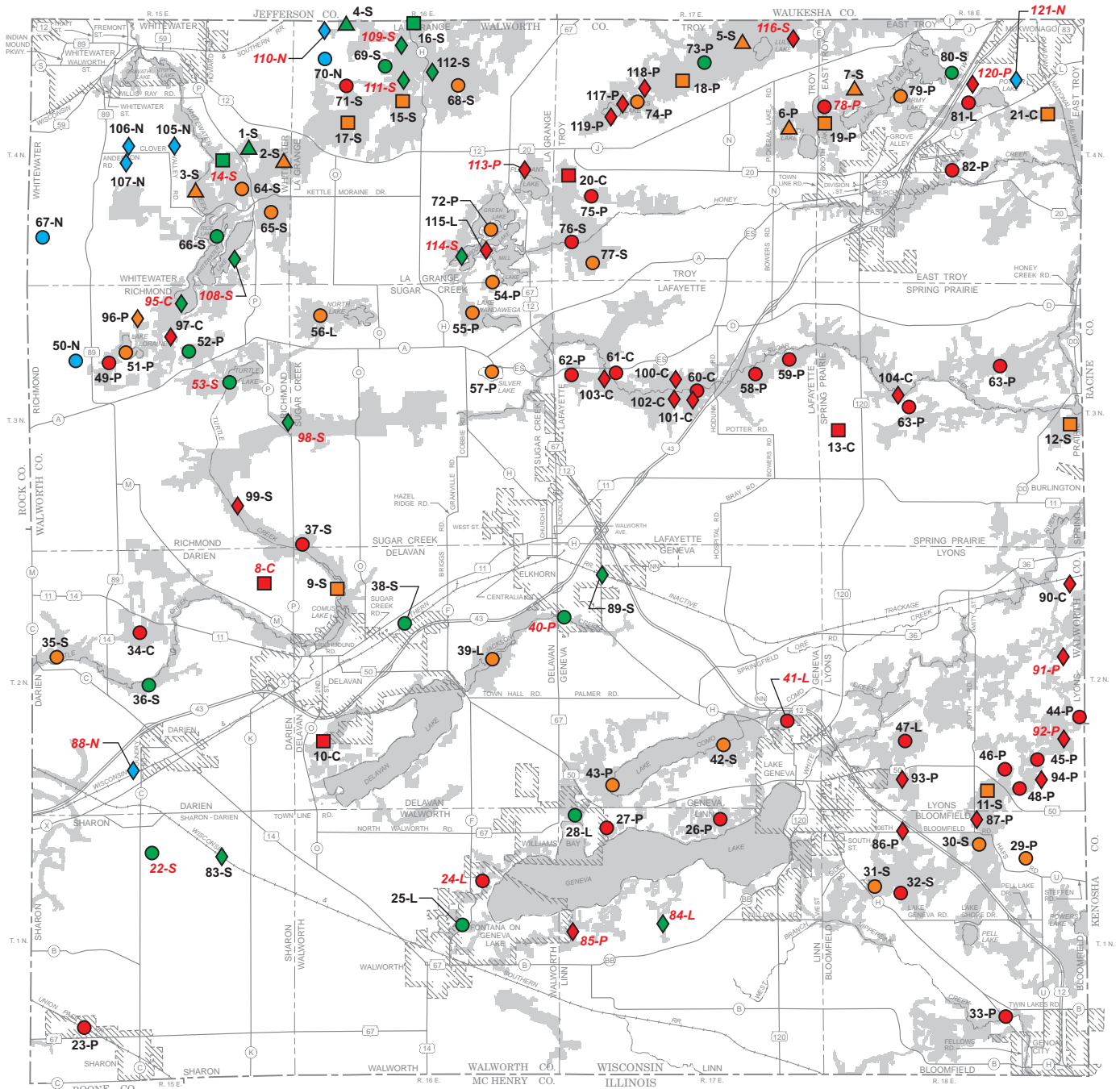
In addition, 55 Tier 3 Butler's Gartersnake habitat sites, all located in the primary environmental corridor, should be protected and managed to maintain suitable habitat under the plan.

4. The fourth-highest acquisition priority be accorded to those activities intended to reestablish relatively large tracts of grasslands and forest interiors within the Region for the purpose of enhancing bird populations. The plan proposes that a new area be established to provide essential grassland habitat for native bird species in southern Walworth County, extending into northern Illinois. This proposed grassland habitat would be a combined initiative between the Wisconsin Department of Natural Resources and the State of Illinois as part of a proposed Hack-ma-tack National Wildlife Refuge to be managed by the U.S. Fish and Wildlife Service. The proposed grassland area in Wisconsin would total approximately 5,000 acres (see Table 44 and Map 46).

Upon implementation of these site acquisition recommendations, 477 Natural Area sites, or 97 percent of the 494 Natural Area sites within the Region, would be in protective public or private conservation ownership. In addition, of the 271 Critical Species Habitat sites not wholly located within a Natural Area, 200 sites, or 74 percent, would be in protective ownership.

The updated plan also reiterates the following recommendations made in the original plan: 1) the adjustment of Commission-delineated primary environmental corridor boundaries to fully encompass inventoried Natural Areas and Critical Species Habitat sites which has been completed as part of this update; 2) the reflection of the Natural Area and Critical Species Habitat inventory findings in the administration of Federal, State, and local wetland regulatory programs; 3) the potential modification of State law and administrative rules to ensure that State agency actions attendant to the approval of sanitary sewer extensions or private sewage disposal systems do not result in the destruction of Natural Areas or Critical Species Habitat sites recommended for preservation and protection; and 4) the proper consideration of Natural Areas and Critical Species Habitat sites in the preparation of land use and other development plans by and in the related regulatory activities of county and local units of government.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WALWORTH COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION

ENTIRELY UNDER PROTECTIVE OWNERSHIP/
PROTECTIVE OWNERSHIP TO BE RETAINED

NA-1 SITE NA-2 SITE NA-3 SITE CRITICAL SPECIES HABITAT

PARTIALLY UNDER PROTECTIVE OWNERSHIP/
REMAINDER OF SITE TO BE ACQUIRED

NOT UNDER PROTECTIVE OWNERSHIP/
ENTIRE SITE TO BE ACQUIRED

NOT UNDER PROTECTIVE OWNERSHIP/
TO BE PRESERVED TO EXTENT PRACTICABLE
WITHOUT PROTECTIVE OWNERSHIP

▲ ■ ● ◆

▲ ■ ● ◆

(NONE) ■ ● ◆

(NONE) (NONE) ● ◆

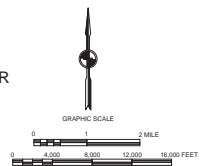
RECOMMENDED OWNERSHIP KEY:

S-STATE GOVERNMENT
C-COUNTY GOVERNMENT
L-LOCAL GOVERNMENT
P-PRIVATE CONSERVANCY ORGANIZATION
N-NO PROTECTIVE OWNERSHIP
RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 41)

22-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 41)

PRIMARY ENVIRONMENTAL
CORRIDORS



Source: SEWRPC.

Table 41

KNOWN NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IN WALWORTH COUNTY: 2009

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
1	Bluff Creek Fens	NA-1 (SNA)	T4N, R15E Sections 13, 14, 23, 24 Town of Whitewater	Department of Natural Resources	79	Excellent-quality springs and associated calcareous fens located at intervals along the headwaters of Bluff Creek. Portions of the stream have been ditched. Contains threatened and endangered species
2	Bluff Creek Woods	NA-1 (SNA)	T4N, R15E Sections 13, 24 Town of Whitewater T4N, R16E Sections 18, 19 Town of LaGrange	Department of Natural Resources and private	371	Extensive dry-mesic woods on rough glacial terrain, dominated by mature red oaks. Best areas are of good quality, but some parts have been disturbed by trails and past grazing and selective logging
3	Clover Valley Fen State Natural Area	NA-1 (SNA)	T4N, R15E Sections 22, 26, 27 Town of Whitewater	Department of Natural Resources and private	112	Prominent feature is a series of 11,000-year-old peat mounds that rise eight to 10 feet above the surrounding lowland, formed by accumulations of partially decayed vegetation around slowly flowing springs. A large number of characteristic fen plant species are present, including State-designated endangered and threatened ones
4	Young Prairie State Natural Area	NA-1 (SNA)	T4N, R16E Section 5 Town of LaGrange T5N, R16E Section 32 Town of Palmyra	Department of Natural Resources	54 (plus 15 in Jefferson County)	Very high-quality wet-mesic prairie, among the best and largest prairie remnants of its type in the Region. The showy flora includes State-designated threatened and endangered species. The area, which extends north into Jefferson County, includes old field that is reverting to prairie through appropriate management
5	Lulu Lake and Eagle Spring Lake Wetland Complex and Adjacent Uplands	NA-1 (SNA)	T4N, R17E Sections 1, 2, 3, 10, 11 Town of Troy T5N, R17E Section 35 Town of Eagle	Department of Natural Resources, The Nature Conservancy, and other private	891 (plus 180 in Waukesha County)	Among the most valuable natural areas in the State, containing a large concentration of elements of natural diversity. Uplands support oak woods, oak openings, and dry prairie; lowlands contain one of the state's finest wetland ecosystems, including bog, springs, fen, deep and shallow marsh, and high-quality lake communities
6	Pickerel Lake Fen State Natural Area	NA-1 (SNA)	T4N, R17E Sections 13, 24 Town of Troy	The Nature Conservancy and other private; protected with conservation easement	273	Large, high-quality calcareous fen and associated seepage springs bordering a shallow lake. A number of uncommon species are present, including a large population of beaked spike-rush (<i>Eleocharis rostellata</i>), a State-designated threatened species
7	Beulah Bog State Natural Area	NA-1 (SNA)	T4N, R18E Sections 7, 8 Town of East Troy	Department of Natural Resources and private	72	Outstanding acid sphagnum bog communities located in a series of four kettle holes. A small open-water bog lake is surrounded by a quaking mat and tamarack swamp. A wet, open moat separates the bog from wooded and pastured uplands
8	Voskuil Dry Prairie	NA-2	T2N, R15E Section 1 Town of Darien	Private	7	Long, narrow stretch of good-quality dry prairie on exposed ridge

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
9	Comus Lake Wetland Complex	NA-2	T2N, R16E Sections 5, 6, 7, 8 Town of Delavan	Private and State of Wisconsin Public Trust Lands	292	A large wetland complex bordering Comus lake and Turtle Creek that includes sedge meadow, deep and shallow marsh, shrub-carr, calcareous fens, and seeping and bubbling springs. Some of the fens and springs are of excellent quality, containing such uncommon species as beaked spike-rush (<i>Eleocharis rostellata</i>), a State-designated threatened species
10	Delavan Prairie-Fen	NA-2	T2N, R16E Section 30 Town of Delavan	Private	137	High-quality wet prairie-fen surrounded by sedge meadow and shrub-carr. Uncommon species include tussock bulrush (<i>Scirpus cespitosus</i>), a State-designated threatened species. Disturbances include past ditching attempts
11	Lake Ivanhoe Fen and Sedge Meadow	NA-2	T2N, R18E Sections 34, 35 Town of Lyons	Department of Natural Resources and private	95	Wetland complex on north side of Lake Ivanhoe, consisting of sedge meadow, shallow marsh, and high-quality calcareous fen communities. The fen contains a number of uncommon species, including the beaked spike-rush (<i>Eleocharis rostellata</i>), a State-designated threatened species
12	Honey Lake Marsh and Sedge Meadow	NA-2	T3N, R18E Sections 13, 24 Town of Spring Prairie T3N, R19E Sections 17, 18, 19, 20 Town of Burlington	Department of Natural Resources, The Nature Conservancy, and other private	141 (plus 250 in Racine County)	Large, relatively undisturbed wetland complex, primarily consisting of good-quality sedge meadow and deep and shallow marsh, but also with smaller areas containing springs and calcareous fens. Nesting site for sandhill cranes
13	Spring Prairie Fen	NA-2	T3N, R18E Section 19 Town of Spring Prairie	Private	34	Wetland complex occupying shallow depression, consisting of high-quality calcareous fen-meadow, with areas of tamarack relict and shrub-carr. Very good species complement, including Ohio goldenrod (<i>Solidago ohioensis</i>) and common bog arrow-grass (<i>Triglochin maritima</i>), both State-designated special concern species
14	Bluff Creek Prairie	NA-2	T4N, R15E Section 23 Town of Whitewater	Department of Natural Resources	21	Relatively large wet-mesic prairie near Bluff Creek, supporting a number of critical plant species. Active management has improved the quality of the site
15	Muir Oak Woods and Duffin Road Fen	NA-2	T4N, R16E Sections 3, 4, 9, 10, 16 Town of LaGrange	Department of Natural Resources and private	665	Large complex of lowland and upland communities. The dry, morainal uplands support extensive oak woods and small patches of managed dry prairie. Depressions hold leatherleaf-dominated bogs, shallow marsh, and a high-quality fen along the western border. Important to maintain as a large, intact block
16	Kestol Dry Prairie	NA-2	T4N, R16E Section 4 Town of LaGrange	Department of Natural Resources	1	Good-quality dry hill prairie, containing good native species diversity. Characteristic species include big and little bluestem, prairie dropseed, purple prairie-clover, and yellow flax. Managed by burning

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
17	LaGrange Oak Woods	NA-2	T4N, R16E Sections 8, 17, 18, 20 Town of LaGrange	Department of Natural Resources and private	768	Extensive southern dry forest dominated by large white, red, black, and bur oaks on rough kettle moraine topography. One of the largest blocks of upland forest in the Southern Kettle Moraine, and, as such, is important for forest-interior-breeding birds
18	Upper Mukwonago River Wetland Complex	NA-2	T4N, R17E Sections 3, 9, 10 Town of Troy	The Nature Conservancy and other private	338	A large, good-quality wetland complex that includes seepage springs, calcareous fen, sedge meadow, shrub-carr, shallow marsh, and tamarack relict. Disturbance has been minimal, mostly confined to the bordering wooded uplands
19	Swan Lake Wetland Complex	NA-2	T4N, R17E Sections 12, 13 Town of Troy T4N, R18E Section 18 Town of East Troy	Girl Scouts of Milwaukee Area, Inc., and other private	167	Good-quality wetland complex within an upland matrix of xeric oak woods. Lowland communities include bog, sedge meadow, shallow marsh, lake, and mature tamarack swamp. Contains a good population of showy lady's-slipper orchid (<i>Cypripedium reginae</i>), a State-designated special concern species
20	Adams Lake Fen and Marsh	NA-2	T4N, R17E Section 19 Town of Troy	Private	65	Good-quality calcareous fen and seepage springs located at base of uplands on east side of lake. Shallow marsh surrounds lake, on the west side of which is a tamarack relict. Uncommon plant species include swamp agrimony (<i>Agrimonia parviflora</i>), a State-designated special concern species
21	Thiede Road Tamarack Swamp	NA-2	T4N, R18E Section 13 Town of East Troy	Private and State of Wisconsin Public Trust Lands	48	Good-quality shallow bog lake, bog mat, and tamarack swamp, bordered by shrub-carr and lowland hardwoods
22	CTH C Lowland	NA-3	T1N, R15E Section 4 Town of Sharon	Department of Natural Resources	60	Wetland complex in an agricultural landscape, consisting of sedge meadow, fresh (wet) meadow, shrub-carr, and prairie remnants
23	Salt Box Road Railroad Prairie	NA-3	T1N, R15E Sections 29, 30 Town of Sharon	Private	12	Approximately one-mile-long stretch of railroad prairie representing the best remaining example of mesic prairie in this intensely agriculturalized portion of the Region. Good species diversity. The highest-quality portion of this area is at its extreme eastern end
24	North Shore Woods	NA-3	T1N, R16E Section 11 Village of Fontana-on-Geneva Lake	Private	38	Moderate-quality dry-mesic hardwoods
25	Fontana Prairie and Fen	NA-3	T1N, R16E Section 15 Village of Fontana-on-Geneva Lake	Village of Fontana-on-Geneva Lake	10	A moderate-quality calcareous fen and wet-mesic prairie complex that is being actively managed. Several uncommon species are present, including the State-designated threatened beaked spike-rush (<i>Eleocharis rostellata</i>). Disturbances include groundwater-level changes resulting from highway construction

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
26	Wychwood	NA-3	T1N, R17E Sections 2, 3, 4 Town of Linn T2N, R17E Section 35 Town of Geneva	Private	226	A large tract of dry-mesic hardwoods occupying a terminal moraine on the north side of Geneva Lake. Generally good quality throughout, except for the large estates which occupy much of the woods
27	Peninsula Woods	NA-3	T1N, R17E Sections 5, 6 Town of Linn	Private	37	Dry-mesic hardwood stand on north side of Geneva Lake. Contains American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
28	Williams Bay Lowlands	NA-3	T1N, R17E Section 6 Village of Williams Bay	Village of Williams Bay	16	Moderate-quality complex of sedge meadow, shrub-carr, shallow marsh, wet prairie, and lowland hardwoods. Contains white lady's-slipper orchid (<i>Cypripedium candidum</i>), a State-designated threatened species
29	Hafs Road Marsh	NA-3	T1N, R18E Sections 1, 2, 11 Town of Bloomfield	Private and State of Wisconsin Public Trust Lands	109	Deep and shallow marsh complex with much open water. Dominated by cattails and bulrushes
30	Lake Ivanhoe Sedge Meadow	NA-3	T1N, R18E Sections 3, 10 Town of Bloomfield	Department of Natural Resources and private	150	Moderate- to good-quality wetland complex of sedge meadow, shrub-carr, and tamarack relict
31	Bloomfield Sedge Meadow and Tamarack Relict	NA-3	T1N, R18E Section 7, 8, 18 Town of Bloomfield	City of Lake Geneva, Department of Natural Resources, and private	171	Large wetland complex of good-quality sedge meadow, with shrub-carr and tamarack relict. Disturbances include past ditching attempts
32	Pell Lake Railroad Prairie	NA-3	T1N, R18E Sections 8, 17 Town of Bloomfield	Private	9	Small remnant of mesic and wet-mesic prairie along abandoned railway right-of-way. Floristically rich, with several regionally uncommon species
33	Bloomfield Prairie	NA-3	T1N, R18E Sections 26, 27 Town of Bloomfield	Private	6	Mesic prairie remnant situated between highway and abandoned railway right-of-way. Characteristic species include prairie dock, golden alexanders, big bluestem, rosinweed, Culver's-root, and prairie cordgrass. One of the best such remnants in this part of the region
34	Darien Oak Woods	NA-3	T2N, R15E Sections 9, 10, 15, 16 Town of Darien	Private	308	A disturbed xeric oak woods that is included because of its size, which offers nesting habitat for forest-interior-breeding birds
35	Turtle Creek Sedge Meadow and Fen	NA-3	T2N, R15E Sections 17, 18 Town of Darien	Department of Natural Resources and private	171	A large, generally disturbed wetland complex of sedge meadow and shrub-carr, with local areas of higher-quality calcareous fens. A documented queen snake hibernaculum is located here
36	Creek Road Fen	NA-3	T2N, R15E Section 21 Town of Darien	Department of Natural Resources	9	Moderate-quality fen, sedge meadow, and shrub-carr complex within the Turtle Creek lowlands. Disturbances include past ditching attempts
37	CTH P Sedge Meadow	NA-3	T2N, R16E Section 6 Town of Delavan T3N, R16E Section 31 Town of Sugar Creek	Private	18	Moderate-quality sedge meadow and shrub-carr

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
38	Marsh Road Railroad Prairie	NA-3	T2N, R16E Section 9 Town of Delavan	Wisconsin Department of Transportation	6	Remnant of dry-mesic prairie along lightly used railway, with some good-quality segments. Characteristic species include leadplant, hoary puccoon, big bluestem, downy phlox, and heart-leaved golden alexanders
39	Lake Lawn Wetland Complex	NA-3	T2N, R16E Sections 13, 14, 23 Town of Delavan	Department of Natural Resources and private	293	A large wetland complex along Jackson Creek at the north end of Delavan Lake. Plant communities include deep and shallow marsh and sedge meadow
40	Jackson Creek Wetlands	NA-3	T2N, R17E Section 7 City of Elkhorn	Kettle Moraine Land Trust	22	Wetland complex, including prairie fen, along Jackson Creek. Managed by prescribed burning
41	Oak Hill Cemetery Woods	NA-3	T2N, R17E Section 25 City of Lake Geneva and Town of Geneva	Private	138	Good-quality upland dry-mesic woods
42	Warbler Trail Wetlands	NA-3	T2N, R17E Sections 26, 27 Town of Geneva	Department of Natural Resources, Town of Geneva, and private	124	Shallow marsh, shrub-carr, sedge meadow, and lowland hardwoods along east shore of Lake Como
43	Lake Como Wetlands	NA-3	T2N, R17E Section 32 Town of Geneva	Private and State of Wisconsin Public Trust Lands	46	Deep and shallow marsh at west end of Lake Como. Has suffered disturbance from construction of adjacent golf course complex
44	Tri-County Tamarack Swamp	NA-3	T2N, R18E Sections 24, 25 Town of Lyons T2N, R19E Section 19 Town of Burlington	Private; protected with conservation easement	25 (plus 15 in Racine County)	Medium-aged tamarack swamp surrounded by dense shrub-carr. Extends into Racine County
45	Peterson Fen	NA-3	T2N, R18E Section 26 Town of Lyons	Private	2	Good-quality calcareous fen, shrub-carr, and sedge meadow along Ivanhoe Creek. Contains Ohio goldenrod (<i>Solidago ohioensis</i>) and small fringed gentian (<i>Gentianopsis procera</i>), both State-designated special concern species
46	Cranberry Road Bog	NA-3	T2N, R18E Sections 26, 35 Town of Lyons	Private	46	Large bog and marsh complex occupying a shallow depression, dominated by leatherleaf and glossy buckthorn. Young tamaracks are present near center of bog. Species diversity is low, but a large population of pitcher plant is present. This community occurs near the southern limits of its range
47	Lake Geneva Tamarack Relict	NA-3	T2N, R18E Sections 28, 29 Town of Lyons	Private	163	Large tamarack relict—shrub-carr complex with small, shallow lakes in depressions. Adjacent development and past ditching attempts have disturbed the site
48	Ivanhoe Creek Fen	NA-3	T2N, R18E Section 35 Town of Lyons	Private	30	Wetland complex along Ivanhoe Creek, containing shrub-carr, shallow marsh, and good-quality calcareous fen
49	Lake Loraine Woods—East	NA-3	T3N, R15E Section 8 Town of Richmond	Private	74	Xeric woods containing scattered, mature oaks, and relatively intact shrub and herb layers. Disturbances include trails and past grazing and selective cutting

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
50	Lake Loraine Woods—West	NA-3	T3N, R15E Section 8 Town of Richmond	Private	86	Disturbed xeric oak woods on flat-to-undulating topography. North end is lower and somewhat more mesic. Included because of relatively large size
51	Lake Loraine Marsh	NA-3	T3N, R15E Sections 8, 9 Town of Richmond	Private and State of Wisconsin Public Trust Lands	35	Good-quality deep and shallow marsh on developed lake
52	Lake No. 10	NA-3	T3N, R15E Section 10 Town of Richmond	State of Wisconsin Public Trust Lands	40	Small, undeveloped lake in a kettle depression, containing deep and shallow marsh
53	Turtle Lake Fen	NA-3	T3N, R15E Section 14 Town of Richmond	Department of Natural Resources	21	Prairie fen on southwest side of Turtle Lake
54	Baywood Road Sedge Meadow	NA-3	T3N, R16E Section 2 Town of Sugar Creek T4N, R16E Section 35 Town of LaGrange	Private and State of Wisconsin Public Trust Lands	27	Good-quality sedge meadow and shallow marsh complex with a strong influx of calciphilic species
55	Lake Wandawega Marsh	NA-3	T3N, R16E Section 6 Town of Sugar Creek	Private and State of Wisconsin Public Trust Lands	83	A large deep and shallow marsh at west end of lake, with good complement of aquatic species. Much of lake upland is developed
56	North Lake Marsh	NA-3	T3N, R16E Section 6 Town of Sugar Creek	Private and State of Wisconsin Public Trust Lands	67	Large marsh on west side of lake, with rich aquatic species complement. Lake upland heavily developed and grazed
57	Silver Lake	NA-3	T3N, R16E Sections 11, 14 Town of Sugar Creek	Private and State of Wisconsin Public Trust Lands	96	Shallow lake that contains a rich complement of native aquatic species. Good water quality. A small dry prairie remnant is located on the north side of the lake
58	Pallottine Maple Woods	NA-3	T3N, R17E Sections 11, 14 Town of Lafayette	Private	152	Moderate-quality mesic and dry-mesic hardwoods with good species diversity. Disturbances include a trail network and past selective cutting
59	Granzeau Woods	NA-3	T3N, R17E Section 12 Town of Lafayette	Private	133	Good-quality dry-mesic hardwoods embedded in a matrix of more-disturbed woods. Dominated by red and white oaks and sugar maple. Currently threatened by logging activity
60	Sugar Creek Fens, Springs, and Sedge Meadow	NA-3	T3N, R17E Section 15 Town of Lafayette	Private	34	Wetland complex along Sugar Creek that has suffered from past and current disturbances. Regionally uncommon species Ohio goldenrod (<i>Solidago ohioensis</i>) and small fringed gentian (<i>Gentianopsis procera</i>), both State-designated special concern species
61	Sugar Creek Wetlands	NA-3	T3N, R17E Section 17 Town of Lafayette	Private	74	Shallow cattail marsh and shrub-carr along Sugar creek. Area has been disturbed by past ditching attempts
62	Abells Corners Sedge Meadow and Tamarack Relict	NA-3	T3N, R17E Section 18 Town of Lafayette	Private	42	Moderate-quality tamarack relict and sedge meadow, disturbed by groundwater-level changes
63	Spring Prairie Lowlands	NA-3	T3N, R18E Sections 10, 11, 14, 15 Town of Spring Prairie	Private	297	Large, basically good-quality wetland complex consisting of shallow marsh, shrub-carr, sedge meadow, and tamarack relict. Area has been disturbed by past ditching attempts

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
64	Lone Tree Trail Oak Woods	NA-3	T4N, R15E Sections 23, 24, 25, 26 Town of Whitewater	Department of Natural Resources and private	265	Former mosaic of xeric oak forest, open oak woodland, and oak savanna now overgrown with shrubs, situated on upper slopes of rough, gravelly interlobate moraine. Contains the State-designated threatened kittentails (<i>Besseyia bullii</i>)
65	Whitewater Oak Woods	NA-3	T4N, R15E Sections 24, 25 Town of Whitewater	Department of Natural Resources and private	240	Xeric oak woodland that has suffered from fire suppression. Dry prairies on steep south-facing slopes are being actively managed through cutting and burning
66	Rice Lake Dry Prairie	NA-3	T4N, R15E Section 26 Town of Whitewater	Department of Natural Resources	1	Small dry prairie remnant, managed by burning
67	Rock Shrub-Fen	NA-3	T4N, R15E Sections 30, 31 Town of Whitewater	Private	46	Good-quality wetland complex, consisting of sedge meadow, shrub-carr, and small areas of marly fen
68	Nordic Trail Oak Woods	NA-3	T4N, R16E Sections 2, 3, 10, 11, 15 Town of LaGrange	Department of Natural Resources and private; protected with conservation easement	493	Large but patchy mixture of disturbed oak woods, shallow lakes, and small areas of dry prairie
69	Skoponong (Duffin Road) Prairie	NA-3	T4N, R16E Sections 4, 9 Town of LaGrange	Department of Natural Resources	8	Good-quality mix of mesic and wet-mesic prairie and shallow marsh. Dominated by big and little bluestem, prairie dock, and goldenrods. Quality has improved with burn management
70	Big Spring Road Prairie	NA-3	T4N, R16E Sections 6, 7 Town of LaGrange	Private	93	Degraded wet-mesic prairie used as pastures but offering excellent opportunity for prairie and pothole restoration. The small wetlands are good for amphibian breeding and migratory waterfowl
71	Connelly Fen	NA-3	T4N, R16E Section 8 Town of LaGrange	Private	2	Good-quality calcareous fen containing characteristic fen species
72	Island Woods	NA-3	T4N, R16E Section 26 Town of LaGrange	Kettle Moraine Land Trust and other private	46	Good-quality dry-mesic woods on rough terrain, situated on peninsula in Lauderdale Lakes
73	Crooked Creek Sedge Meadow	NA-3	T4N, R17E Sections 3, 10 Town of Troy	The Nature Conservancy	27	Sedge meadow—shallow marsh wetland disturbed by ditching along east edge
74	Doyles Lake Wetlands	NA-3	T4N, R17E Sections 8, 9, 16 17 Town of Troy	Private and State of Wisconsin Public Trust Lands	68	Undeveloped lake containing shallow marsh. Used by migrating waterfowl
75	Lein's Road Fen	NA-3	T4N, R17E Section 30 Town of Troy	Private	22	Degraded shrub-fen, disturbed by past grazing and groundwater-level changes from ditching
76	Honey Creek Fen	NA-3	T4N, R17E Section 31 Town of Troy	Private	8	Moderate-quality wetland complex bordering Honey Creek, consisting of calcareous fen, sedge meadow, and shallow marsh. Contains beaked spike-rush (<i>Eleocharis rostellata</i>), a State-designated threatened species
77	Troy Fen	NA-3	T4N, R17E Sections 31, 32 Town of Troy	Department of Natural Resources and private	15	Moderate-quality calcareous fen—shrub-carr—sedge meadow wetland. Disturbed by past ditching

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
78	East Troy Bog	NA-3	T4N, R18E Sections 7, 18 Town of East Troy	Private	6	Good-quality leatherleaf bog
79	Army Lake Lowlands	NA-3	T4N, R18E Sections 8, 9, 16 Town of East Troy	Private and State of Wisconsin Public Trust Lands	92	Large deep and shallow marsh northwest of Army Lake
80	East Troy Tamaracks	NA-3	T4N, R18E Sections 9, 10 Town of East Troy	Department of Natural Resources	26	Acid sphagnum—tamarack relict, disturbed by groundwater-level changes from ditching attempts
81	Potter Lake Tamaracks	NA-3	T4N, R18E Sections 10, 15 Town of East Troy	Private	22	Disturbed tamarack relict on west side of Potter Lake
82	Hilburn Sedge Meadow	NA-3	T4N, R18E Sections 21, 22 Town of East Troy	Private	66	Sedge meadow and shallow marsh bordering Honey Creek
83	Railroad Lowland	CSH	T1N, R15E Sections 2, 11 Town of Sharon	Department of Natural Resources	64	Disturbed fresh (wet) meadow supporting lesser fringed gentian (<i>Gentianopsis procera</i>), a State-designated special concern species
84	Town of Linn Park	CSH	T1N, R17E Section 16 Town of Linn	Town of Linn	153	Large expanse of old fields and pastures providing nesting habitat for several grassland bird species
85	Lyons Woods	CSH	T1N, R17E Section 18 Village of Fontana	Private	35	Woods containing the Region's only known population of broad beech fern (<i>Phegopteris hexagonoptera</i>), a State-designated special concern species
86	Section 5 Marsh and Pond	CSH	T1N, R18E Sections 4, 5 Town of Bloomfield	Private	21	Small wetland provides breeding habitat for black terns, a State-designated special concern bird species
87	Townline Pond	CSH	T1N, R18E Section 4 Town of Bloomfield T2N, R18E Section 33 Town of Lyons	Private	50	Small wetland provides breeding habitat for black terns, a State-designated special concern bird species; misidentified as "Swift Lake Wetland" CSH in PR-42
88	Darien Railroad Prairie Remnant	CSH	T2N, R15E Sections 28, 33 Town of Darien	Private	1	Small remnants of mesic prairie along railway right-of-way. The Region's only known population of wild petunia (<i>Ruellia humilis</i>), a State-designated endangered species, is present
89	Elkhorn Railroad Prairie Remnant	CSH	T2N, R17E Section 6 City of Elkhorn	City of Elkhorn and Wisconsin Department of Transportation	7	Remnant patches of mesic and wet-mesic prairie along abandoned railway right-of-way support populations of two State-designated threatened species: Sullivant's milkweed (<i>Asclepias sullivantii</i>) and cream gentian (<i>Gentiana alba</i>)
90	White River Railroad Prairie	CSH	T2N, R18E Section 1 Town of Lyons	Private	12	Disturbed remnants of wet-mesic prairies bordering recreational trail support a good population of white lady's-slipper orchid (<i>Cypripedium candidum</i>), a State-designated threatened species
91	Roden Oak Woods	CSH	T2N, R18E Section 13 Town of Lyons	Private	41	Disturbed oak woodland supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species

Table 41 (continued)

Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
92	Seno Oak Opening	CSH	T2N, R18E Section 25 Town of Lyons	Private (protected through conservation easement)	2	Small oak opening supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
93	Radio Station Wetland	CSH	T2N, R18E Section 32 Town of Lyons	Private	26	Disturbed shrub-carr with a small area of prairie fen supporting lesser fringed gentian (<i>Gentianopsis procera</i>), a State-designated special concern species
94	Peterson Property	CSH	T2N, R18E Section 35 Town of Lyons	Private	40	Swamp agrimony (<i>Agrimonia parviflora</i>), a State-designated special concern species, found along edge of wetland
95	Whitewater Lake Island	CSH	T3N, R15E Section 3 Town of Richmond	Walworth County	1	Nesting colony of great egrets, a State-designated threatened bird species, on wooded island in lake
96	Unnamed Wetland	CSH	T3N, R15E Section 4 Town of Richmond	Private and State of Wisconsin Public Trust Lands	26	Small wetland provides breeding habitat for black terns, a State-designated special concern bird species
97	Lake Number 10 Open Woods	CSH	T3N, R15E Section 10 Town of Richmond	Private	194	Disturbed woodland supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
98	Turtle Valley Wildlife Area	CSH	T3N, R15E Sections 23, 24, 26 Town of Richmond T3N, R16E Sections 18, 19 Town of Sugar Creek	Department of Natural Resources and Department of Transportation	2,042	Former agricultural land, now being returned to wetlands. Provides nesting and feeding habitat for a large number of native birds, including several endangered, threatened, and special concern species
99	Island Road Shrub-Carr	CSH	T3N, R15E Section 35 Town of Richmond	Private	64	Disturbed shrub-carr with a small area of prairie fen, supporting two State-designated special concern species: lesser fringed gentian (<i>Gentianopsis procera</i>) and Ohio goldenrod (<i>Solidago ohioensis</i>)
100	Sugar Creek Woods—North	CSH	T3N, R17E Sections 15, 16 Town of Lafayette	Private	230	Oak woods on rolling topography north of Sugar Creek contains late coral root orchid (<i>Corallorhiza odontorhiza</i>), a State-designated special concern species
101	Sugar Creek Woods—South	CSH	T3N, R17E Sections 15, 16, 17 Town of Lafayette	Private	116	Oak woods on rolling topography south of Sugar Creek contains late coral root orchid (<i>Corallorhiza odontorhiza</i>), a State-designated special concern species
102	Sugar Creek Wet Woods	CSH	T3N, R17E Section 16 Town of Lafayette	Private	34	Wooded wetland complex of lowland hardwoods and shrub-carr contains giant hyssop (<i>Agastache nepetoides</i>), a State-designated threatened species
103	Abells Corners Fen	CSH	T3N, R17E Section 17 Town of Lafayette	Private	3	Small, disturbed prairie fen supporting a population of lesser fringed gentian (<i>Gentianopsis procera</i>), a State-designated special concern species
104	Hargraves Road Sedge Meadow	CSH	T3N, R18E Section 17 Town of Spring Prairie	Private	46	Small, disturbed prairie fen within larger sedge meadow supporting a population of lesser fringed gentian (<i>Gentianopsis procera</i>), a State-designated special concern species
105	Mills Road Prairie	CSH	T4N, R15E Section 15 Town of Whitewater	Private	3	Mowed roadside containing a small population of Sullivan's milkweed (<i>Asclepias sullivantii</i>), a State-designated threatened species

Table 41 (continued)

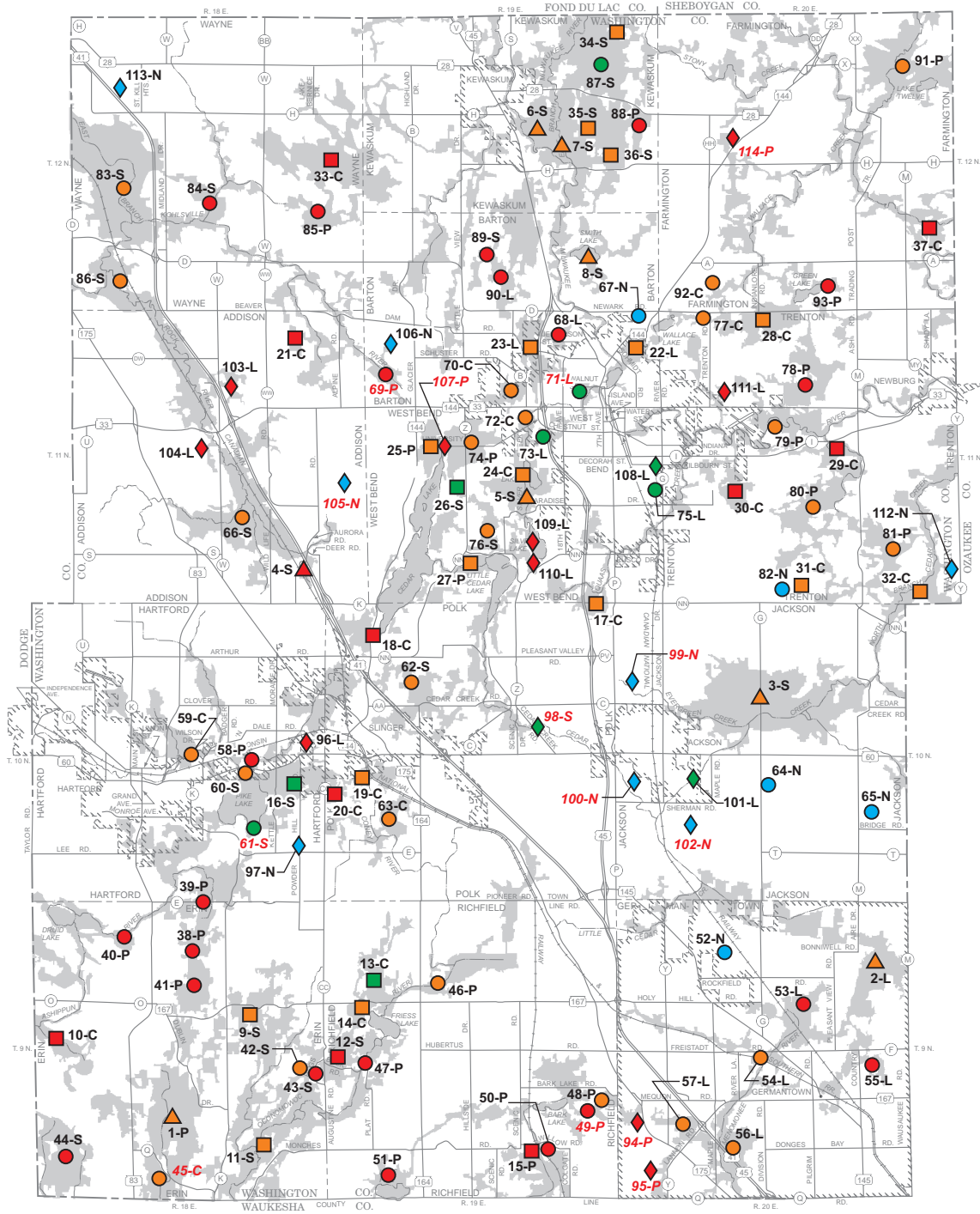
Map 43 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
106	Anderson Road	CSH	T4N, R15E Section 16 Town of Whitewater	Private	1	Mowed roadside containing a small population of Sullivant's milkweed (<i>Asclepias sullivantii</i>), a State-designated threatened species
107	Island Road Prairie	CSH	T4N, R15E Section 21 Town of Whitewater	Private	1	Remnant mesic prairie between gravel road and agricultural fields
108	Whitewater Lake Island Woods	CSH	T4N, R15E Section 35 Town of Whitewater	Department of Natural Resources	3	Woodland supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
109	Emerson Esker Prairie	CSH	T4N, R16E Section 4 Town of LaGrange	Department of Natural Resources	1	Small remnants of prairie and oak opening supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
110	Bennett Dry Prairie	CSH	T4N, R16E Section 6 Town of LaGrange	Private	3	Small prairie remnants supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
111	Duffin Road Dry Prairie	CSH	T4N, R16E Section 9 Town of LaGrange	Department of Natural Resources	1	Small prairie remnants supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
112	LaGrange Campground	CSH	T4N, R16E Section 10 Town of LaGrange	Department of Natural Resources	203	Small prairie remnants within a larger woodland supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
113	Juniper Knoll Camp Woods	CSH	T4N, R16E Section 24 Town of LaGrange	Private	98	Large, but disturbed and patchy woodland with a small population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
114	Middle Lake Sedge Mat	CSH	T4N, R16E Section 34 Town of LaGrange	State of Wisconsin Trust Lands	3	Floating sedge mat at edge of Middle Lake
115	Lauderdale Lakes Woods	CSH	T4N, R16E Section 35 Town of LaGrange	Private	28	Woodland in a residential area containing forked aster (<i>Aster furcatus</i>), a State-designated threatened species
116	Horn Dry Prairies	CSH	T4N, R17E Section 1 Town of Troy	Private	5	Small prairie remnants supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
117	Harmony Hills Savanna	CSH	T4N, R17E Section 8 Town of Troy	Private	77	Rare sedge species located within disturbed oak savanna
118	Doyles Lake Prairies	CSH	T4N, R17E Section 9 Town of Troy	Private	1	Small prairie remnants supporting a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
119	Camp Timberlee	CSH	T4N, R17E Section 17 Town of Troy	Private	65	Swamp agrimony (<i>Agrimonia parviflora</i>), a State-designated special concern species, found along edge of wetland
120	Anderson Bog	CSH	T4N, R18E Section 10 Town of East Troy	Private	1	Downy willow-herb (<i>Epilobium strictum</i>), a State-designated special concern species, located in small bog
121	Eastwood Estates Woods	CSH	T4N, R18E Section 11 Town of East Troy	Private	5	Small remnant woodland within residential development, containing hoptree (<i>Ptelea trifoliata</i>), a State-designated special concern species

Note: Shaded areas indicate new areas.

Source: SEWRPC.

Map 44

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WASHINGTON COUNTY



CURRENT STATUS AND PLAN RECOMMENDATION

- ENTIRELY UNDER PROTECTIVE OWNERSHIP/
PROTECTIVE OWNERSHIP TO BE RETAINED
- PARTIALLY UNDER PROTECTIVE OWNERSHIP/
REMAINDER OF SITE TO BE ACQUIRED
- NOT UNDER PROTECTIVE OWNERSHIP/
ENTIRE SITE TO BE ACQUIRED
- NOT UNDER PROTECTIVE OWNERSHIP/
TO BE PRESERVED TO EXTENT PRACTICABLE
WITHOUT PROTECTIVE OWNERSHIP

NA-1 SITE NA-2 SITE NA-3 SITE CRITICAL SPECIES HABITAT

- (NONE) ■ ● ◆
- ▲ ■ ● (NONE)
- ▲ ■ ● ◆
- (NONE) (NONE) ● ◆

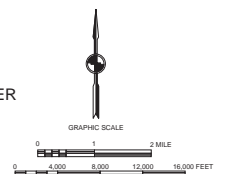
RECOMMENDED OWNERSHIP KEY:

- S-STATE GOVERNMENT
- C-COUNTY GOVERNMENT
- L-LOCAL GOVERNMENT
- P-PRIVATE CONSERVANCY ORGANIZATION
- N-NO PROTECTIVE OWNERSHIP RECOMMENDED

27-SITE REFERENCE NUMBER
(SEE TABLE 42)

49-NEWLY IDENTIFIED SITE REFERENCE NUMBER
(SEE TABLE 42)

PRIMARY ENVIRONMENTAL CORRIDORS



Source: SEWRPC.

Table 42

KNOWN NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IN WASHINGTON COUNTY: 2009

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
1	Murphy Lake— McConville Lake Wetland Complex	NA-1	T9N, R18E Sections 21, 22, 27, 28, 33, 34 Town of Erin	The Nature Conservancy and other private	887	Large wetland complex surrounding undeveloped hard-water seepage lakes that are located in a large glacial basin. The variety of plant communities includes shrub-carr, alder thicket, lowland hardwoods, sedge meadow, deep and shallow marsh, and both young and mature tamarack forest. Good to excellent quality overall
2	Germantown Swamp	NA-1	T9N, R20E Sections 1, 12 Village of Germantown	Village of Germantown, Milwaukee Metropolitan Sewerage District, and private	374	Located along the headwaters of the Menomonee River, this is a large low-lying woods that has apparently suffered only minimal human disturbance, although ditching near the perimeter has had some effect. This is predominantly a southern lowland hardwoods of silver and red maple, green ash, American elm, and basswood, but with substantial inclusions of northern wet-mesic forest of yellow birch, tamarack, and white cedar. At the north end is an upland stand of sugar maple and beech. The ground flora contains a mixture of northern and southern elements. The large size of the woods, together with its relatively undisturbed nature and unique combination of species, makes this a valuable site. A severe windstorm in late June 1991 toppled a large number of trees, mostly yellow birch and silver maple
3	Jackson Swamp	NA-1 (SNA)	T10N, R20E Sections 1, 2, 8, 9, 10, 14, 15, 16, 17 Town of Jackson	Department of Natural Resources and private protected with conservation easement	1,571	Large forested wetland, consisting of good-quality white cedar-dominated northern wet-mesic forest within a larger area of disturbed lowland hardwood swamp with green ash and red and silver maples. Changes in hydrology have allowed reed canary grass to invade canopy gaps. The large forest interior is invaluable for a number of native breeding birds. Included with the "Jackson Marsh" State Natural Area
4	Aurora Road Fen	NA-1	T11N, R18E Section 35 Town of Addison	Private	22	High-quality calcareous fen, with sedge meadow and tamarack relict associated with cold trout stream that is tributary to the Rock River. Location of swamp metalmark, a State-designated threatened butterfly species. Threatened by surrounding incompatible land use
5	Paradise Lake Fen	NA-1	T11N, R19E Sections 22, 27 Town of West Bend	Private and Department of Natural Resources	22	Undeveloped nine-acre lake with good-quality calcareous sedge mat and deep and shallow marsh
6	Kewaskum Maple- Oak Woods State Natural Area	NA-1 (SNA)	T12N, R19E Sections 10, 15 Town of Kewaskum	Department of Natural Resources and private	86	An extremely rich and relatively undisturbed southern mesic and dry-mesic forest, located just east of the Milwaukee River on undulating morainal topography. The northern two-thirds constitute a designated State Natural Area, which consists of two tracts separated by pine plantation. A number of regionally uncommon species are present. Kettle depressions hold water part of the year

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
7	Milwaukee River Floodplain Forest State Natural Area	NA-1 (SNA)	T12N, R19E Sections 14, 15 Town of Kewaskum	Department of Natural Resources and private	135	One of the best riverine forests remaining in the Region. Quality varies, but some areas are relatively undisturbed. Upland "islands" contribute to a rich and diverse ground flora
8	Smith Lake Fen and Swamp	NA-1	T12N, R19E Sections 26, 35 Town of Barton	Private and Department of Natural Resources; protected with conservation easement	170	Shallow lake rich in aquatics bordered by sedge meadow, good-quality calcareous fen, lowland hardwoods, and conifer swamp
9	Holy Hill Woods	NA-2	T9N, R18E Sections 2, 11, 14 Town of Erin	Department of Natural Resources and private; protected with conservation easement	259	Moderate- to good-quality, medium-aged southern mesic and dry-mesic woods located on gently sloping to steep interlobate kettle moraine topography. Dominated by sugar maple, red oak, red maple, white ash, white oak, and basswood. Total wooded area is large, but dissected by highways. However, it remains as one of the larger, better-quality upland hardwood forests locally
10	Toland Swamp	NA-2	T9N, R18E Sections 18, 19, 20 Town of Erin	Private	202	Large, wooded wetland mixture of shrub-carr, lowland hardwoods, and tamarack relict, with a history of disturbance
11	Loew's Lake Wetland Complex	NA-2	T9N, R18E Sections 24, 25, 26, 34, 35 Town of Erin	Department of Natural Resources and private	481	Undeveloped drainage lake and wetland corridor associated with the upper Oconomowoc River. The diverse wetland communities are in generally good condition, and include sedge meadow, lowland hardwoods, emergent aquatics, shrub-carr, and tamarack swamp. Swamp metalmark butterfly and queen snake have been documented
12	Friess Lake Tamarack Swamp	NA-2	T9N, R18E Section 24 Town of Erin T9N, R19E Sections 18, 19 Village of Richfield	Private	228	Large, mostly wooded, wetland, complex, consisting of young to medium-aged tamarack swamp, shrub-carr, and shallow marsh. South portion divided by high east-west crevasse fill
13	Daniel Boone Bogs and Upland Woods	NA-2	T9N, R19E Sections 7, 8 Village of Richfield	Daniel Boone Conservation Club; protected with conservation easement	142	A pair of good-quality, relatively undisturbed sphagnum bogs located within a dry-mesic forest matrix. A number of uncommon species are present, including common bog arrow-grass (<i>Triglochin maritima</i>), a State-designated special concern species
14	Glacier Hills Park Bogs and Upland Woods	NA-2	T9N, R19E Sections 7, 17, 18 Village of Richfield	Washington County and private	60	Steep, interlobate kettle moraine topography supporting two good-quality bogs in kettle hole depressions. Southern mesic and dry-mesic hardwood forest covers the surrounding uplands, with small stands of dry hill prairie containing the State-designated threatened kittentails (<i>Besseyia bullii</i>)
15	Colgate Fen-Meadow	NA-2	T9N, R19E Sections 26, 35 Village of Richfield	Private	23	Good-quality fen—sedge meadow complex, with tamarack relict, bordering the headwaters of the Bark River
16	Pike Lake Woods	NA-2	T10N, R18E Section 23, 24 Town of Hartford	Department of Natural Resources	280	Generally moderate-quality dry-mesic woods that has suffered from past disturbance, including grazing and selective logging. The irregular kettle moraine topography includes a prominent wooded kame in the southeast corner

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
17	Mud Lake Swamp	NA-2	T10N, R19E Section 1 Town of Polk T11N, R19E Section 35 Town of West Bend	Private and Wisconsin Department of Transportation	186	Good-quality, undeveloped calcareous headwater lake surrounded by lowland hardwoods and tamarack swamp. Fen and bog floral elements are present. Adversely affected by construction of USH 45
18	Big Cedar Lake Bog	NA-2	T10N, R19E Section 6 Town of Polk	Private	89	Good-quality, relatively large sphagnum bog, surrounded by a tamarack fringe. Regionally uncommon species are present. Some past attempts at ditching
19	Mud Lake Meadow	NA-2	T10N, R19E Section 19 Town of Polk	Private and State of Wisconsin Public Trust Lands	59	Good-quality open meadow to the east and north of a small, shallow, alkaline seepage lake. Dominated by wire-grass sedges. Fen elements are present, as well as a few scattered patches of tamaracks. A site of unusual species composition
20	Mud Lake Upland Woods	NA-2	T10N, R19E Section 19 Town of Polk	Private	56	Relatively undisturbed southern dry-mesic woods on rolling morainal topography. Dominated by red and white oaks, with an admixture of red maple, sugar maple, basswood, and white ash. Few exotics present. Threatened by encroaching residential development. A good example of this forest type
21	St. Anthony Beech Woods	NA-2	T11N, R18E Section 2 Town of Addison	Private	68	An old-growth remnant of the once-extensive mesic woods, dominated by mature beech and sugar maple. Located on a moderate, east-facing slope. Not undisturbed, but in good condition
22	Lac Lawrann Conservancy Upland Woods and Wetlands	NA-2	T11N, R19E Sections 1, 12 Town of Barton	City of West Bend and private	101	A good-quality wet- and dry-mesic hardwood forest, with a deep and shallow marsh, shrub-carr, and floating sedge mat around a pond. The area contains a good example of kame and esker formation. Location of the State-designated threatened forked aster (<i>Aster furcatus</i>)
23	Blue Hills Woods	NA-2	T11N, R19E Section 3 City of West Bend, Town of Barton Section 10 Town of Barton	City of West Bend; Department of Natural Resources; Ozaukee Washington Land Trust; and other private	263	Relatively large, good-quality mesic and dry-mesic woods on glacial topography of significant relief. Recovering from past grazing and selective cutting. Disturbed by construction of USH 45 along east edge
24	Silverbrook Lake Woods	NA-2	T11N, R19E Sections 15, 21, 22, 27 Town of West Bend	Girl Scouts of Milwaukee Area, Inc.; Washington County; Cedar Lakes Conservation Foundation; and other private	402	A large area surrounding Silverbrook Lake, consisting mainly of good-quality southern mesic to dry-mesic hardwoods. Fairly diverse ground flora. Low area contains tamaracks and lowland hardwoods. Residences are beginning to encroach on south and west. Important to preserve as an intact block of relatively contiguous woods
25	Gilbert Lake Wetlands and Uplands	NA-2	T11N, R19E Sections 17, 20 Town of West Bend	Department of Natural Resources, Cedar Lakes Conservation Foundation, and other private; protected with conservation easement	187	A lightly developed lake surrounded by a wetland complex of tamarack swamp, bog, sedge meadow, and cattail marsh. Dry-mesic woods on adjacent uplands provide buffer

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
26	Hacker Road Bog	NA-2	T11N, R19E Section 20 Town of West Bend	Department of Natural Resources	25	Good-quality sphagnum bog, bordered by sedge meadow, shallow marsh, and shrub-carr
27	Little Cedar Lake Wetlands	NA-2	T11N, R19E Sections 32, 33 Town of West Bend	Cedar Lakes Conservation Foundation and other private	134	Extensive wetlands at west end of Little Cedar Lake, containing good-quality deep and shallow marsh, sedge meadow, shrub-carr, tamarack relicts, and lowland hardwoods
28	Sandy Knoll Swamp	NA-2	T11N, R20E Sections 4, 5 Town of Trenton T12N, R20E Sections 5, 6 Town of Farmington	Washington County and private	392	Large, patchy lowland hardwood forest with areas of tamarack. Some portions contain good-quality wet-mesic forest ground flora. Past disturbances include selective cutting and clear-cutting, and water-level changes due to ditching
29	Myra Wetlands	NA-2	T11N, R20E Section 15 Town of Trenton	Private	69	Good-quality wetland complex of shallow lake, marsh, sedge meadow, shrub-carr, and lowland hardwoods
30	Schoenbeck Woods	NA-2	T11N, R20E Sections 20, 29 Town of Trenton	Private	197	Relatively large, moderate- to good-quality forested tract, consisting of lowland hardwoods, shrub-carr, southern mesic forest, and southern dry-mesic forest
31	Bellin Bog	NA-2	T11N, R20E Section 33 Town of Trenton	Private and State of Wisconsin Public Trust Lands	17	A good-quality sedge mat and tamarack swamp, with many fen elements, that border a shallow, undeveloped pond
32	Reinartz Cedar Swamp	NA-2	T11N, R20E Sections 35, 36 Town of Trenton	Private and State of Wisconsin Public Trust Lands	121	Good-quality northern wet-mesic forest, dominated by white cedar, tamarack, yellow and paper birch, red maple, and black ash. A number of species with more northerly affinities are present. Uplands to the east support a disturbed mesic woods
33	Wayne Swamp	NA-2	T12N, R18E Sections 13, 14, 23, 24 Town of Wayne T12N, R19E Sections 18, 19 Town of Kewaskum	Private	1,147	A large depression in rolling moraine supports several wetland communities, including second-growth lowland hardwoods, northern wet-mesic forest, shrub-carr, and tamarack-fen, with southern mesic forest on isolated uplands
34	Kettle Moraine Drive Bog	NA-2	T12N, R19E Section 1 Town of Kewaskum	Department of Natural Resources and private	39	A good-quality forested bog of tamarack and black spruce over a layer of ericads, with yellow and paper birch established in older areas. A number of regionally uncommon species are present
35	Glacial Trail Forest	NA-2	T12N, R19E Sections 11, 14 Town of Kewaskum	Department of Natural Resources and private	222	One of the largest intact tracts of contiguous southern mesic and dry-mesic forest remaining in the Region. Located on steep, irregular kettle moraine topography. Good overall quality; recovering from past selective cutting. Important to maintain as intact as possible
36	St. Michael's Woods	NA-2	T12N, R19E Sections 13, 14, 24 Town of Kewaskum	Department of Natural Resources and private	86	Rolling interlobate moraine supporting southern mesic to dry-mesic hardwoods, dominated by sugar maple, red oak, and basswood. Moderately rich ground flora. Relatively recent selective logging
37	North Branch Woods	NA-2	T12N, R20E Section 25 Town of Farmington	Private; protected with conservation easement	180	Good-quality wooded tract bordering the North Branch of the Milwaukee River. Consists of southern mesic and wet-mesic hardwoods. Threatened by future logging operations

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
38	Hults Bog and Marsh	NA-3	T9N, R18E Sections 3, 10 Town of Erin	Private	14	Small, moderate-quality sphagnum bog—tamarack swamp and associated shallow marsh. Marsh is stopover spot for migrating waterfowl
39	CTH E Wetlands	NA-3	T9N, R18E Section 3 Town of Erin T10N, R18E Section 34 Town of Hartford	Private	28	Wetland complex of shrub-carr, sedge meadow, and shallow marsh that has suffered from past disturbance
40	Erin Sedge Meadow	NA-3	T9N, R18E Sections 4, 5 Town of Erin	Private	17	Moderate-quality sedge meadow
41	Thompson Swamp	NA-3	T9N, R18E Section 10 Town of Erin	Private protected with conservation easement	214	Large but disturbed wetland complex of lowland hardwoods, shrub-carr, sedge meadow, and tamarack relict. Contains some northern species, including white pine
42	Donegal Road Woods	NA-3	T9N, R18E Sections 13, 24 Town of Erin T9N, R19E Section 18 Village of Richfield	Department of Natural Resources and private	140	Large, irregularly shaped dry-mesic woods on steep, southeast-facing slopes
43	St. Augustine Road Sedge Meadow	NA-3	T9N, R18E Section 24 Town of Erin	Private	10	Good-quality southern sedge meadow
44	Mason Creek Swamp	NA-3	T9N, R18E Sections 30, 31 Town of Erin	University of Wisconsin—Milwaukee and private	425	Large lowland hardwoods area
45	Little Oconomowoc River Woods and Wetlands	NA-3	T9N, R18E Section 33 Town of Erin	Washington County and private	226	Dry-mesic woods and wetland complex
46	CTH J Swamp	NA-3	T9N, R19E Section 9 Village of Richfield	Kettle Moraine Audubon Society and other private	100	Moderate- to good-quality complex of shrub-carr, lowland hardwoods, and mesic hardwoods, with scattered spring seepages
47	Hubertus Road Sedge Meadow	NA-3	T9N, R19E Section 19 Village of Richfield	Private	7	Good-quality southern sedge meadow bordering the Oconomowoc River
48	Amy Bell Lake and Lowlands	NA-3	T9N, R19E Sections 24, 25 Village of Richfield	Private and State of Wisconsin Public Trust Lands	20	Small, undeveloped lake with a narrow bog fringe, associated with a tamarack relict and shrub-carr that have suffered from past disturbance
49	Amy Bell Lake Bog	NA-3	T9N, R19E Section 25 Village of Richfield	Private	5	Good-quality floating bog mat
50	Colgate Shrub-Carr	NA-3	T9N, R19E Sections 26, 35 Village of Richfield	Private	37	Shrub-carr surrounding small, shallow lake; disturbed by access road
51	Lake Five Woods	NA-3	T9N, R19E Sections 31, 32 Village of Richfield	Private	145	Low-to medium-quality mesic, dry-mesic, and xeric woods on steep kettle moraine terrain on north side of Lake Five. Depression contains small seepage pond and disturbed wetland plant communities. Small patches of dry hill prairie are located within the xeric woods and contain the State-designated threatened kittentails (<i>Besseyia bullii</i>). Threatened by surrounding development
52	Faber-Pribyl Woods	NA-3	T9N, R20E Sections 4, 9 Village of Germantown	Private	52	Small but good-quality remnant of mesic woods which still exhibits characteristics of an old-growth forest. Dominated by sugar maple and basswood, with some beech. Adjoining wet-mesic woods to north are of lesser quality

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
53	Hoelz Swamp	NA-3	T9N, R20E Sections 10, 11, 14, 15 Village of Germantown	Private	110	A moderate-quality lowland hardwoods within the headwaters area of the Menomonee River. Dominated by silver and red maple and yellow birch, with some northern forest understory elements. Valuable for watershed protection
54	Lake Park Swamp	NA-3	T9N, R20E Sections 21, 22 Village of Germantown	Village of Germantown and private	54	A disturbed silver maple-dominated lowland hardwood forest, important for protection of two intermittent streams tributary to the Menomonee River
55	Schoessow Woods	NA-3	T9N, R20E Section 24 Village of Germantown	Private	51	A relatively small but good-quality mix of upland woods alternating with wet and wet-mesic woods in shallow depressions. Trees, mostly sugar maple, green ash, and basswood, are of medium age. Very good species diversity, including two State-designated special concern species: American gromwell (<i>Lithospermum latifolium</i>) and goldenseal (<i>Hydrastis canadensis</i>). Threatened by residential subdivisions
56	USH 41 Swamp	NA-3	T9N, R20E Sections 28, 33 Village of Germantown	Milwaukee Metropolitan Sewerage District, Village of Germantown, and private	253	An extensive floodplain forest dominated by silver maple, with green ash, black ash, and American elm. Due to Dutch elm disease, dissection by USH 41/45, a logging history, and artificial drainage, its ecological value is only moderate. However, it is important for protection of Menomonee River tributaries, and prevention of downstream flooding
57	Kleinman Swamp	NA-3	T9N, R20E Sections 29 Village of Germantown	State of Wisconsin and private	71	Lowland hardwood forest of silver maple and some yellow birch. Only moderate ecological value
58	STH 60 Swamp	NA-3	T10N, R18E Sections 14, 23 Town of Hartford	Private	31	Lowland hardwood swamp of moderate quality, containing some northern elements. Dominated by yellow birch and black ash
59	Rubicon Lowlands	NA-3	T10N, R18E Sections 15, 21, 22 Town of Hartford	Washington County and private; protected with conservation easement	30	Moderate-quality southern sedge meadow along the Rubicon River
60	Pike Lake Sedge Meadow	NA-3	T10N, R18E Section 23 Town of Hartford	Town of Hartford, Department of Natural Resources, and private	44	Good-quality southern sedge meadow and shallow marsh at north end of Pike Lake
61	Pike Lake Wetlands—South	NA-3	T10N, R18E Sections 23, 26 Town of Hartford	Department of Natural Resources	37	Wetland complex, including sedge meadow and shrub-carr
62	Slinger Upland Woods	NA-3	T10N, R19E Sections 8, 9 Town of Polk	Department of Natural Resources, Cedar Lakes Conservation Foundation, and private	172	Relatively large area of disturbed southern mesic and dry-mesic hardwoods on kettle and kame topography. The site contains the significant geologic feature known as "Polk Kames"
63	Heritage Trails Bog	NA-3	T10N, R19E Sections 20, 29 Town of Polk	Washington County and private	94	Relatively undisturbed tamarack bog within an interlobate morainal depression. Other associated communities include lowland hardwoods and shrub-carr

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
64	Kowalske Swamp	NA-3	T10N, R20E Section 22 Town of Jackson	Private	83	Young to medium-aged northern wet-mesic hardwoods, disturbed by past selective cutting and windthrow. The ground flora is relatively diverse. A knoll at the northeast corner supports upland mesic woods
65	Sherman Road Swamp	NA-3	T10N, R20E Section 25 Town of Jackson	Private	96	A lowland hardwood swamp dominated by red maple, green ash, and American elm
66	Allenton Swamp	NA-3	T11N, R18E Sections 22, 26, 27, 28, 35 Town of Addison	Department of Natural Resources and private	1,090	Large, disturbed wetland complex along the Rock River, including southern sedge meadow, lowland hardwoods, shrub-carr, emergent aquatics, and relict tamaracks
67	Newark Road Wetland	NA-3	T11N, R19E Section 1 Town of Barton	Private	8	A kettle-hole wetland
68	Sunset Park Wetlands	NA-3	T11N, R19E Sections 2, 3 City of West Bend	Private	85	Disturbed wetland complex containing shallow marsh, fresh (wet) meadow, and a good stand of tag alder
69	Kohlsville River Upland Woods and Wetlands	NA-3	T11N, R19E Section 7 Town of Barton	Private	100	Complex of upland and lowland woods
70	Albecker Park Wetlands	NA-3	T11N, R19E Sections 9, 10 City of West Bend	City of West Bend and private	91	Shallow marsh and disturbed fresh (wet) meadow complex with some shrub-carr and scattered lowland hardwoods. Disturbances include water-level changes due to past draining efforts and filling
71	Regner Park Woods	NA-3	T11N, R19E Section 11 City of West Bend	City of West Bend	25	Small but good-quality dry-mesic woods within urban park
72	Silver Creek Marsh	NA-3	T11N, R19E Section 15 City of West Bend	Washington County and private	27	Good-quality deep and shallow marsh and sedge meadow
73	University Fen	NA-3	T11N, R19E Section 15 City of West Bend	City of West Bend	1	A small, moderate-quality calcareous fen and lowland hardwood forest disturbed by adjacent highway construction
74	CTH Z Upland Woods and Wetlands	NA-3	T11N, R19E Sections 16, 17, 20, 21 City of West Bend	Cedar Lakes Conservation Foundation and other private	281	Mature mesic hardwood forest on rough interlobate moraine, dominated by sugar maple, red oak, beech, and basswood. The moderately rich herb layer includes several uncommon species. Threatened by ongoing logging operations. Adjacent large wetland complex of shrub-carr, sedge meadow, marsh, and tamarack relict is divided by CTH Z
75	Muth Woods	NA-3	T11N, R19E Section 24 City of West Bend	City of West Bend, plus conservation easement with Ozaukee Washington Land Trust	21	A good-quality, medium-aged stand of southern mesic hardwoods, with an exceptionally rich and diverse ground flora that includes some uncommon species. A depression near the center of the woods contains lowland hardwoods. Recent residential construction has removed part of woods
76	Ziegler Woods	NA-3	T11N, R19E Section 28 City of West Bend	Private; protected with conservation easement	172	Large tract of southern mesic to dry-mesic hardwoods, dominated by sugar maple and red oak, on irregular glacial terrain. Past disturbance includes grazing and selective logging; more recently, wide horse and all-terrain-vehicle trails have degraded the site, allowing a number of exotic species to invade

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
77	Sandy Knoll Wetlands	NA-3	T11N, R20E Sections 5, 6 Town of Trenton	Washington County and private	47	A small but good-quality wetland complex containing tamaracks, lowland hardwoods, shrub-carr, shallow marsh, and sedge fen associated with a spring-fed stream
78	Poplar Road Lacustrine Forest	NA-3	T11N, R20E Sections 9, 10 Town of Trenton	Private	182	A disturbed lowland hardwoods stand
79	Fellenz Hardwood Swamp	NA-3	T11N, R20E Section 16 Town of Trenton	Ozaukee Washington Land Trust and other private	76	A southern wet to wet-mesic hardwood forest, located within the Milwaukee River floodplain. Disturbances include selective cutting and excessive siltation. Threatened by possible future airport expansion
80	Camp Wowitan Wetlands	NA-3	T11N, R20E Sections 21, 22, 27, 28 Town of Trenton	Private and State of Wisconsin Public Trust Lands	109	Relatively undeveloped lake and wetland complex with a well-developed esker. A good-quality calcareous fen, tamarack swamp, and mesic forest occur on the site
81	Paradise Drive Tamarack Swamp	NA-3	T11N, R20E Sections 26, 35 Town of Trenton	Private; protected with conservation easement	81	Northern wet-mesic forest, tamarack swamp, and shrub-carr of moderate quality
82	Schalla Tamarack Swamp	NA-3	T11N, R20E Section 33 Town of Trenton	Private	17	A tamarack swamp
83	Theresa Swamp	NA-3	T12N, R18E Sections 21, 22, 27, 28 Town of Wayne	Department of Natural Resources and private; protected with conservation easement	952	Lowland hardwood forest bordering the Rock River, composed of large silver maples, plus black ash, green ash, American elm, and swamp white oak. Canopy has been opened by Dutch elm disease
84	Wayne Creek Swamp	NA-3	T12N, R18E Sections 17, 18, 19, 20, 29, 30 Town of Wayne	Private; protected with conservation easement	181	Disturbed lowland hardwood forest along Wayne Creek. Openings in canopy from Dutch elm disease
85	Stockcar Swamp	NA-3	T12N, R18E Sections 23, 24, 25, 26 Town of Wayne	Private	244	Forested wetland of northern lowland hardwoods, tamarack-fen, shrub-carr, and alder thicket, of moderately good quality. A number of uncommon species are present
86	Rock River Marsh	NA-3	T12N, R18E Sections 30, 31, 32 Town of Wayne	Department of Natural Resources and private	339	Shallow marsh within the Rock River floodplain, dominated by cattails. Bisected by railway right-of-way
87	Kettle Moraine Drive Woods	NA-3	T12N, R19E Sections 2, 11, 12 Town of Kewaskum T13N, R19E Section 35 Town of Auburn	Department of Natural Resources	293 (plus 30 in Fond du Lac County)	Long, north-south-trending, irregularly shaped southern mesic and dry-mesic forest that is recovering from past grazing and selective cutting. Located on steep-sided, gravelly ridges of the interlobate kettle moraine. Forest is mostly second-growth. Important as linkage between other large forest blocks to the north and south
88	STH 28 Woods	NA-3	T12N, R19E Sections 12, 13 Town of Kewaskum	Private	122	Good-quality southern mesic hardwoods, dominated by sugar maple, ironwood, and basswood, located on kettle moraine topography. Recent cutting, roads, trails, and new homesite construction are threatening the integrity of the woods
89	Lange Hardwoods	NA-3	T12N, R19E Section 28 Town of Barton	Private	53	Good-quality southern mesic hardwood forest on steep kettle moraine topography
90	Wildwood Hardwood Swamp	NA-3	T12N, R19E Sections 33, 34 Town of Barton	Private	98	A lowland hardwood forest area

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
91	Milwaukee River Swamp	NA-3	T12N, R20E Sections 1, 2, 11, 12 Town of Farmington	Private and State of Wisconsin Public Trust Lands; protected with conservation easement	547	A large but disturbed wetland complex of lowland hardwoods, northern wet-mesic forest, shrub-carr, and sedge meadow bordering the Milwaukee River
92	Lizard Mound Woods	NA-3	T12N, R20E Sections 31, 32 Town of Farmington	Washington County and private	29	Mature dry-mesic hardwoods dominated by sugar maple, red oak, basswood, white ash, beech, and white oak. Contains Indian effigy mounds of State-wide significance
93	Green Lake Bog	NA-3	T12N, R20E Section 34 Town of Farmington	Private	19	Small but good-quality undeveloped bog lake bordered by sphagnum mat, conifer swamp, and mesic hardwoods
94	Wheaton Woods	CSH	T9N, R20E Section 30 Village of Germantown	Private	13	Forked aster (<i>Aster furcatus</i>), a State-designated threatened species, located within small woodlot
95	Willow Creek Swamp	CSH	T9N, R20E Section 31 Village of Germantown	Private	62	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
96	Unnamed Wetland No. 2	CSH	T10N, R18E Section 13 Town of Hartford	Private	26	Wetland that provides breeding habitat for black terns
97	Unnamed Wetland No. 1	CSH	T10N, R18E Section 25 Town of Hartford	Private	17	Wetland that provides breeding habitat for black terns
98	Cedar Creek Fen	CSH	T10N, R19E Section 14 Town of Polk	Department of Natural Resources	4	Small fen containing Ohio goldenrod (<i>Solidago ohioensis</i>), a State-designated special concern species
99	Friedens Creek Woods	CSH	T10N, R20E Section 7 Town of Jackson	Private	12	Small woodlot containing chinkapin oak (<i>Quercus muehlenbergii</i>), a State-designated special concern species
100	Lamm Woods	CSH	T10N, R20E Section 19 Town of Jackson	Private	20	Small woodlot containing chinkapin oak (<i>Quercus muehlenbergii</i>), a State-designated special concern species
101	Jackson Woods	CSH	T10N, R20E Section 20 Village of Jackson	Village of Jackson	25	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
102	Chinkapin Oak Woods	CSH	T10N, R20E Section 29 Town of Jackson	Private	11	Small but relatively rich woodlot containing chinkapin oak (<i>Quercus muehlenbergii</i>), a State-designated special concern species
103	St. Anthony Maple Woods	CSH	T11N, R18E Section 10 Town of Addison	Private; protected with conservation easement	100	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
104	Doll Woods	CSH	T11N, R18E Section 16 Town of Addison	Private	25	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
105	Nabob Upland Woods	CSH	T11N, R18E Section 24 Town of Addison	Private	75	Relatively large but disturbed woods that supports a small population of Canada yew (<i>Taxus canadensis</i>), a State-designated special concern species
106	Riesch Woods	CSH	T11N, R19E Section 6 Town of Barton	Private	34	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
107	Gilbert Lake Woodland	CSH	T11N, R19E Section 17 Town of West Bend	Private	85	Very disturbed upland woodland that includes a small population of large yellow lady's-slipper orchid (<i>Cypripedium pubescens</i>), a State-designated special concern species

Table 42 (continued)

Map 44 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
108	High School Woods	CSH	T11N, R19E Section 24 City of West Bend	City of West Bend	9	Small upland woodlot on grounds of high school supports a small population of wild ginseng (<i>Panax quinquefolius</i>), a State-designated special concern species
109	Silver Lake Woods	CSH	T11N, R19E Section 27 Town of West Bend	Private	11	Lake edge provides nesting habitat for red-shouldered hawk, a State-designated threatened species
110	Silver Lake Swamp	CSH	T11N, R19E Section 34 Town of West Bend	Private	10	Patchy northern wet-mesic forest includes a small population of showy lady's-slipper orchid (<i>Cypripedium reginae</i>), a State-designated special concern species
111	Cameron Property	CSH	T11N, R20E Section 8 Town of Trenton	Private	10	Small woodland includes a small population of small yellow lady's-slipper orchid (<i>Cypripedium parviflorum</i>), a State-designated special concern species
112	Fechters Woods	CSH	T11N, R20E Section 36 Town of Trenton	Private	6	Woodland supports goldenseal (<i>Hydrastis canadensis</i>), a State-designated special concern species
113	Unnamed Wetland No. 3	CSH	T12N, R18E Section 7 Town of Wayne	Private	48	Open wetland used by native bird species
114	STH 28 Woodland	CSH	T12N, R20E Section 17 Town of Farmington	Private	12	Forked aster (<i>Aster furcatus</i>), a State-designated threatened species, located along edge of woodlot

Note: Shaded areas indicate new areas.

Source: SEWRPC.

The plan recognizes a need to properly manage Natural Areas and Critical Species Habitat sites to ensure that the critical species and natural communities concerned can flourish. Without proper management, such areas may be significantly altered over time and their natural values diminished or lost. The plan further recognizes that management techniques appropriate for one type of natural area or critical species habitat area may not be appropriate for others and that management measures must be developed and applied on a site-by-site basis. Accordingly, the plan recommends that the public agencies and private conservancy organizations proposed to be responsible for site preservation and protection, respectively, prepare and implement detailed management plans specific to each site.

It should be noted that significant natural habitat areas and critical species habitat areas, which came to light subsequent to the publication of Planning Report No. 42, have been lost to the Region even before they could be included in the Plan Amendment (Table 45).

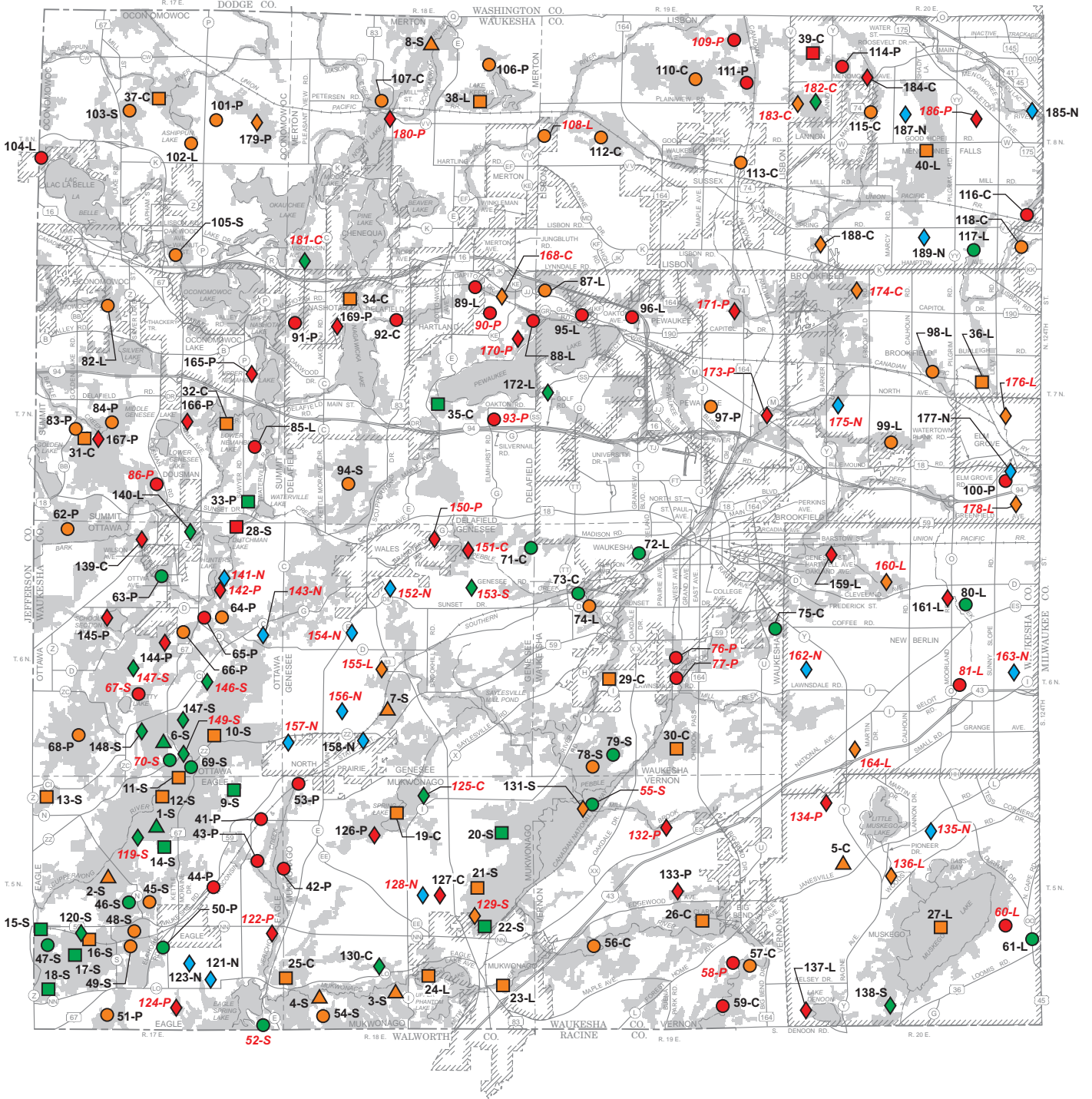
Aquatic Natural Areas Plan Element

The updated plan recommends that a separate, expanded study to amend the aquatic natural areas be undertaken as described in Section 8 and Appendix A.

ADID Wetland Plan Element

The updated plan recommends that the Region's ADID wetlands be updated to include those wetlands located in the 2005 primary environmental corridor. Further, the plan recommends that those wetlands located in natural areas identified in this plan that are located outside the primary environmental corridor be designated as ADID wetlands.

PLAN RECOMMENDATIONS FOR NATURAL AREAS AND CRITICAL SPECIES HABITATS IN WAUKESHA COUNTY



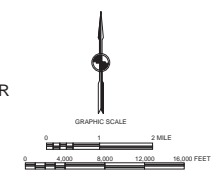
CURRENT STATUS AND PLAN RECOMMENDATION	NA-1 SITE	NA-2 SITE	NA-3 SITE	CRITICAL SPECIES HABITAT
ENTIRELY UNDER PROTECTIVE OWNERSHIP/ PROTECTIVE OWNERSHIP TO BE RETAINED	▲	■	●	◆
PARTIALLY UNDER PROTECTIVE OWNERSHIP/ REMAINDER OF SITE TO BE ACQUIRED	▲	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ ENTIRE SITE TO BE ACQUIRED	(NONE)	■	●	◆
NOT UNDER PROTECTIVE OWNERSHIP/ TO BE PRESERVED TO EXTENT PRACTICABLE WITHOUT PROTECTIVE OWNERSHIP	(NONE)	(NONE)	(NONE)	◆

RECOMMENDED OWNERSHIP KEY:
 S-STATE GOVERNMENT
 C-COUNTY GOVERNMENT
 L-LOCAL GOVERNMENT
 P-PRIVATE CONSERVANCY ORGANIZATION
 N-NO PROTECTIVE OWNERSHIP RECOMMENDED

27-SITE REFERENCE NUMBER
 (SEE TABLE 43)

55-NEWLY IDENTIFIED SITE REFERENCE NUMBER
 (SEE TABLE 43)

PRIMARY ENVIRONMENTAL CORRIDORS



Source: SEWRPC.

Table 43

KNOWN NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IN WAUKESHA COUNTY: 2009

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
1	Kettle Moraine Fen and Low Prairie State Natural Area	NA-1	T5N, R17E Sections 3, 4, 9, 10 Town of Eagle	Department of Natural Resources	150	Large, good- to excellent-quality wet to wet-mesic prairie and fen complex that is recovering from past grazing, mowing, and fire suppression. A rich combination of species is present. Management includes prescribed burns, brush clearing, and filling of large artificial ditch
2	Scuppernong Prairie State Natural Area	NA-1	T5N, R17E Sections 8, 9, 16, 17, 20 Town of Eagle	Department of Natural Resources and private	713	Good- to excellent-quality wet to wet-mesic prairie with a complete representation of low prairie plants, including a number of rare species. One of the best prairie remnants in the Region. This site also includes extensive areas that are being returned to prairie through appropriate management techniques, such as burning and brush and tree cutting
3	Mukwonago Fen, Sedge Meadow, and Tamarack Relict	NA-1	T5N, R18E Sections 28, 33 Town of Mukwonago	Private and Department of Natural Resources	242	Large, good-quality, and relatively undisturbed wetland complex bisected by the Mukwonago River. North of the river, sedge meadow and shallow marsh grade into prairie fen; south of the river, open wetland grades into tamarack swamp with northern relict species. An integral part of the Mukwonago River corridor
4	Upper Mukwonago River	NA-1 (SNA)	T5N, R17E Section 36 Town of Eagle T5N, R18E Sections 31, 32, 33 Town of Mukwonago	Department of Natural Resources and private protected with conservation easement	215	High-quality stream reach between dam at Eagle Spring Lake and Phantom Lake. Includes fen communities and low prairie at Rainbow Springs
5	Muskego Park Hardwoods State Natural Area	NA-1	T5N, R20E Section 17 City of Muskego	Waukesha County and private	100	Primarily an upland woods on a gentle southeast slope, with small woodland ponds. Characteristic trees include red and white oaks, sugar maple, basswood, and yellowbud hickory. The spring flora is exceptionally rich and diverse. Several uncommon species occur here, including the State-designated endangered crow-spur sedge (<i>Carex crus-corvi</i>) and the State-designated threatened blue ash (<i>Fraxinus quadrangulata</i>). The site has been disturbed by wide hiking and equestrian trails, and is currently threatened by subdivisions along the north and east borders
6	Ottawa Lake Fen State Natural Area	NA-1 (SNA)	T6N, R17E Section 34 Town of Ottawa	Department of Natural Resources	26	Two shallow depressions connected by deep marsh and shallow marl flats. The smaller, northern lake is undeveloped and supplied by numerous seepage springs, small boiling springs, and several cold inlet streams. Here are present an unusually large number of wetland and aquatic plant communities, including submerged aquatic, emergent aquatic, sedge meadow, shrub-carr, tamarack swamp, and extensive fen-marl flats which contain several rare species

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
7	Genesee Oak Opening and Yatzeck's Fen State Natural Area	NA-1 (SNA)	T6N, R18E Section 28 Town of Genesee	Department of Natural Resources and private	96	Classic bur oak opening on rolling interlobate morainal topography. Areas of high-quality dry to dry-mesic prairie occur throughout, with side-oats grama, big bluestem, little bluestem, Indian grass, pasqueflower, prairie smoke, leadplant, and silky aster. Managed by burning and brush cutting. Lowlands to east contain mesic and wet-mesic prairie, while to the south Yatzeck's fen offers a series of high-quality springs and excellent fen
8	Monches Woods	NA-1	T8N, R18E Sections 3, 4, 10 Town of Merton	Waukesha County and private	332	Extensive dry-mesic and mesic hardwoods on rough morainal topography bordering the Oconomowoc River. The rich, diverse flora includes regionally uncommon species. The site is significant because of the high number of native breeding bird species that use the woods. An active great blue heron rookery is present
9	Ulrickson Road Cedar Glade	NA-2	T5N, R17E Sections 3, 4 Town of Eagle	Department of Natural Resources	32	Cedar glade and oak opening mix with good, local areas of dry prairie elements, including pasqueflower (<i>Anemone patens</i>), white camas (<i>Zigadenus elegans</i>), and the State-designated threatened kittentails (<i>Besseyia bullii</i>).
10	Ottawa Oak Woods and Dry Prairies	NA-2	T5N, R17E Sections 2, 3 Town of Eagle T6N, R17E Sections 25, 26, 27, 34, 35, 36 Town of Ottawa	Department of Natural Resources and private	996	Extensive oak woodland and former oak savanna on irregular morainal topography. Several openings scattered throughout the forested matrix contain moderate- to good-quality dry prairies and are being actively managed
11	Eagle Shrub-Fen	NA-2	T5N, R17E Section 2 Town of Eagle	Department of Natural Resources and private	69	Site consists of two separate plant communities divided by young woods. To the north is a shrubby fen. To the south is a somewhat better-quality wiregrass fen and tamarack-fen
12	Eagle Fen and Spring	NA-2	T5N, R17E Section 3 Town of Eagle T6N, R17E Section 34 Town of Ottawa	Department of Natural Resources and private	190	Large wetland complex of fen, sedge meadow, shrub-carr, and stream communities. The clear, fast-flowing stream emanates from a spring east of STH 67. Area has been disturbed by past ditching attempts and creation of fishing pond
13	Beaver Dam Lake	NA-2	T5N, R17E Section 6 Town of Eagle	Department of Natural Resources and private	118	Shallow marsh that is nesting and feeding area for black terns, yellow-headed blackbirds, and pied-billed grebes
14	Kettle Moraine Limestone Outcrop	NA-2	T5N, R17E Section 10 Town of Eagle	Department of Natural Resources	4	Low, shaded limestone outcrop, an unusual community type in Southeastern Wisconsin. Smooth cliff brake (<i>Pellaea glabella</i>) and walking fern (<i>Camptosorus rhizophyllus</i>) are present. Also known as Brady's Rocks
15	Eagle Railroad Prairie	NA-2	T5N, R17E Section 19 Town of Eagle	Department of Natural Resources	19	Wet-mesic prairie of good diversity, including two State-designated threatened plant species
16	Eagle Dry Prairie and Grotjan's Fen	NA-2	T5N, R17E Sections 19, 20, 29, 30 Town of Eagle	Department of Natural Resources and private	60	Diverse combination of communities, including good-quality calcareous fen and springs, sedge meadow, dry sand prairie, sand barrens, and mesic railroad prairie. The sand prairies and barrens, rare community types in Southeastern Wisconsin, contain a number of regionally uncommon species

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
17	Eagle Woods and Dry Prairies	NA-2 (SNA)	T5N, R17E Sections 19, 20, 29, 30, 31 Town of Eagle	Department of Natural Resources	588	Large, generally wooded area on rough glacial terrain, containing oak woodland and former oak savanna interspersed with dry hill prairies, dry sand prairie, and sand barrens. One of the few stations in the Region for prickly-pear cactus (<i>Opuntia humilis</i>). Site contains Eagle Oak Opening State Natural Area
18	Fur Farm Pond	NA-2	T5N, R17E Section 31 Town of Eagle	Department of Natural Resources	69	Deep and shallow marsh and sedge meadow community containing some bog-affiliated species
19	Spring Lake Sedge Meadow and Fens	NA-2	T5N, R18E Sections 3, 4, 9 Town of Mukwonago	Private and State of Wisconsin Public Trust Lands	224	Good-quality sedge meadow with areas of calcareous fen bordering Spring Lake. North half of lake is undeveloped; south half has residences
20	Vernon Tamarack-Fen	NA-2	T5N, R18E Section 12 Town of Mukwonago	Department of Natural Resources	18	Good-quality prairie fen with medium-aged tamaracks. A number of uncommon species are present, including the State-designated threatened white lady's-slipper orchid (<i>Cypripedium candidum</i>)
21	Vernon Prairie-Fen	NA-2	T5N, R18E Sections 13, 14 Town of Mukwonago	Department of Natural Resources and private	39	Good-quality wet prairie, prairie fen, calcareous fen, and shrub-carr complex that has been affected by adjacent ditching. Contains beaked spike-rush (<i>Eleocharis rostellata</i>), a State-designated threatened plant species
22	Vernon Fen	NA-2	T5N, R18E Section 23 Town of Mukwonago	Department of Natural Resources	10	Good-quality calcareous fen and springs that are recovering from past disturbance. Two State-designated threatened plant species, false asphodel (<i>Tofieldia glutinosa</i>) and beaked spike-rush (<i>Eleocharis rostellata</i>), occur here
23	Lower Mukwonago River	NA-2	T5N, R18E Sections 25, 36 Town of Mukwonago Section 35 Village of Mukwonago	Village of Mukwonago, Department of Transportation, and private	23	Stretch of Mukwonago River below dam at Lower Phantom Lake contains large and diverse population of native fish species, including such rare species as starhead topminnow, longear sunfish, pugnose shiner, least darter, and lake chubsucker
24	Phantom Lake Wetlands	NA-2	T5N, R18E Sections 27, 34 Town of Mukwonago Village of Mukwonago	Private and State of Wisconsin Public Trust Lands	190	Deep and shallow marsh and sedge meadow bordering Phantom Lake
25	Brown Lake Wetlands, Woods, and Prairies	NA-2	T5N, R18E Section 30 Town of Mukwonago	Private and State of Wisconsin Public Trust Lands	148	Complex of dry upland woods with small patches of dry prairie, and wetlands, including prairie fen, shrub-carr, and calcareous sedge meadow. Calcareous sedge meadow is associated with good-quality undeveloped lake
26	Big Bend Wet-Mesic Woods	NA-2 (SNA)	T5N, R19E Sections 22, 23 Town of Vernon	Waukesha County, Village of Big Bend, Town of Vernon, Waukesha Land Conservancy, and other private	425	Relatively large wet-mesic hardwoods within the Fox River environmental corridor, with a rich and diverse flora. Characteristic trees include swamp white oak, American elm, white and green ash, and basswood. Includes Martins Woods State Natural Area

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
27	Muskego Lake Marsh	NA-2	T5N, R20E Sections 13, 14, 15, 21, 22, 23, 27, 28, 33, 34 City of Muskego	State of Wisconsin and private	3,026	Large cattail-dominated deep and shallow marsh throughout Muskego Lake. Despite past disturbance by ditching, water-level changes, lake development, and powerboat activity, it offers substantial habitat for waterfowl
28	Henrietta Lake Bog	NA-2	T6N, R17E Section 2 Town of Ottawa	Private	6	Good-quality sphagnum bog at south end of Henrietta Lake. Typical bog species include tamarack, pitcher plant, sundew, cranberry, and dense cottongrass (<i>Eriophorum spissum</i>)
29	Fosters Woods	NA-2	T6N, R19E Section 20 Town of Waukesha	Waukesha County and private	88	Good-quality xeric woods overlooking Fox River. Wetland on east side contains shallow marsh. Part of Fox River County Park
30	Falk Fen and Woods	NA-2	T6N, R19E Sections 33, 34 Town of Waukesha	Waukesha County, School District of Waukesha, Waukesha Land Conservancy, and other private	310	Large wetland complex, containing extensive prairie fen, shrub-carr, and tamarack relict communities. The flora is rich and diverse, including a number of rare species. Redwing Creek flows through the area. The upland border to the south consists of an esker with dry-mesic woods that has a history of selective logging and grazing
31	Genesee Lake Road Bog	NA-2	T7N, R17E Sections 20, 29 Town of Summit	Private and Town of Summit	14	Good-quality acid sphagnum bog lake and tamarack relict. Contains a number of species with more northern affinities
32	Bark River Marsh	NA-2	T7N, R17E Section 23 Town of Summit	Private and State of Wisconsin Public Trust Lands	182	Deep and shallow marsh along Bark River; includes Bowron Lake
33	Sawyer Road Sedge Meadow	NA-2	T7N, R17E Section 36 Town of Summit	Waukesha Land Conservancy	40	Marsh and sedge meadow wetland with scattered, small tamaracks
34	Nagawicka Lake Bog and Oak Woods	NA-2	T7N, R18E Sections 5, 8 City of Delafield	Department of Natural Resources, Waukesha Land Conservancy, and other private	156	High-quality tamarack bog at north end of Nagawicka Lake. Relict species include pitcher plant, sundew, bogbean, moccasin-flower orchid, and starflower. Area includes good-quality dry-mesic hardwoods north of bog
35	Pewaukee Lake Access Fen	NA-2	T7N, R18E Section 22 Town of Delafield	Waukesha County	10	Good-quality calcareous fen on west side of Pewaukee Lake. Contains regionally uncommon plant species, including a good population of the State-designated threatened beaked spike-rush (<i>Eleocharis rostellata</i>). Site has improved with program of periodic burning
36	Zion Woods	NA-2	T7N, R20E Section 14 City of Brookfield	City of Brookfield and private	56	A small but mature and relatively undisturbed dry-mesic hardwoods stand, located on a northeast-facing slope. Dominated by red oak, sugar maple, and basswood. Contains American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species. Lowlands to east support a good-quality sedge meadow
37	Ashippun River Lowlands	NA-2	T8N, R17E Sections 9, 10, 15, 16 Town of Oconomowoc	Department of Natural Resources, Waukesha County, and private	248	Good-quality wetland complex bordering the Ashippun River
38	Lake Keesus Fen-Meadow	NA-2	T8N, R18E Sections 10, 11, 14 Town of Merton	Private and Department of Natural Resources	141	Large, good-quality wetland complex west of Lake Keesus. Consists of shrub-carr, shallow marsh, sedge meadow, fresh (wet) meadow, and extensive calcareous wiregrass sedge meadow. A number of regionally uncommon species are present in this unique community. The area east of north-south road is of lesser quality

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
39	Held Maple Woods	NA-2	T8N, R20E Section 8 Village of Menomonee Falls	Private	40	Upland mesic hardwood forest dominated by sugar maple and basswood, with localized areas of beech. Outstanding diversity of herbaceous species. Small swamp forest adds to diversity. Threatened by residential subdivision
40	Menomonee Falls "Tamarack" Swamp	NA-2	T8N, R20E Sections 9, 10, 15, 21, 22, 27, 28 Village of Menomonee Falls	Village of Menomonee Falls, Waukesha Land Conservancy, and other private	822	Extensive wetland complex with only a few of the once-dominant tamaracks remaining. At present, consists largely of lowland hardwoods, shrub-carr alder thicket, sedge meadow, and shallow marsh. Ditching attempts and highway construction have resulted in altered water levels. Because of its large size, this remains a significant undeveloped natural area
41	Road X Railroad Prairie	NA-3	T5N, R17E Sections 1, 12 Town of Eagle	Private	4	Moderate-quality, patchy mesic prairie remnant extending for approximately one mile along railway right-of-way. In recent years has suffered from right-of-way upgrading and management
42	Holtz Oak Opening	NA-3	T5N, R17E Sections 12, 13 Town of Eagle	Private	88	Large area of scattered, open-grown bur and white oaks. The understory contains some remnant oak savanna species
43	Jericho Creek Fen	NA-3	T5N, R17E Sections 12, 13 Town of Eagle	Private	8	Disturbed fen area, with only a few of the characteristic calciphiles present. Recent, extensive beaver activity has raised water levels by backing up Jericho Creek
44	Mailman Road Railroad Prairie	NA-3	T5N, R17E Section 14 Town of Eagle	Private	9	Discontinuous mesic prairie remnants along one-half-mile-long railway right-of-way. Best prairie is on east side of tracks. Contains cream gentian (<i>Gentiana alba</i>), a State-designated threatened species. In recent years has suffered from right-of-way upgrading and management
45	Paradise Springs Woods	NA-3	T5N, R17E Sections 15, 16, 21 Town of Eagle	Department of Natural Resources and private	101	Disturbed xeric woods on rough, gravelly terrain that contains forked aster (<i>Aster furcatus</i>) and kittentails (<i>Besseyia bullii</i>), both designated as threatened in Wisconsin
46	Paradise Creek Prairie	NA-3	T5N, R17E Section 16 Town of Eagle	Department of Natural Resources	101	Large area of recovering wet-mesic prairie that is being restored and expanded through program of brush cutting and burn management. Contains a population of the recently rediscovered eared false foxglove (<i>Tomanthera auriculata</i>), a State-designated special concern species
47	Stute Springs	NA-3	T5N, R17E Section 30 Town of Eagle	Department of Natural Resources	19	Springs and wet meadow. Formerly "Mounded Fen" CSH in PR-42
48	STH 59 Oak Woods and Prairies	NA-3	T5N, R17E Sections 20, 21 Town of Eagle	Department of Natural Resources, Department of Transportation, and private	218	Complex of dry prairie, mesic prairie, dry oak woods, and shallow pond. The pond contains significant amphibian populations. Past disturbance includes excavation of gravel for highway construction
49	Old World Wisconsin Marsh	NA-3	T5N, R17E Section 21 Town of Eagle	State of Wisconsin and private	38	Large, shallow marsh and lake supporting a number of breeding bird species
50	Eagle Centre (Haffner) Oak Opening	NA-3 (SNA)	T5N, R17E Section 22 Village of Eagle Section 27 Town of Eagle	Waukesha Land Conservancy	20	Broken, gravelly interlobate moraine containing large, scattered, open-grown oaks above a weedy herb layer interspersed with dry prairie openings. Has suffered from past grazing and fire suppression and adjacent residential development. Contains a large population of the State-designated threatened kittentails (<i>Besseyia bullii</i>)
51	Malek Wetland	NA-3	T5N, R17E Sections 32, 33 Town of Eagle	The Nature Conservancy and other private	96	Large, generally good-quality wetland complex of sedge meadow, low prairie, deep and shallow marsh, and scattered shrub-carr. Some calcareous fen species are present. Disturbed by past ditching attempts

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
52	Eagle Spring Lake Bog, Woods, and Prairie	NA-3	T5N, R17E Section 36 Town of Eagle T4N, R17E Section 1 Town of Troy	Department of Natural Resources	66	Leatherleaf bog, dry upland woods, and small prairie remnants
53	North Prairie Railroad Prairie	NA-3	T5N, R18E Section 6 Town of Mukwonago	Private	7	Discontinuous mesic and wet-mesic prairie remnants along railway right-of-way. Some portions are in good condition. Characteristic species include heart-leaved golden alexanders, prairie dock, big bluestem, and prairie cordgrass. Continued viability of prairie in jeopardy due to railway upgrading operations
54	Rainbow Springs Woods, Wetlands, and Prairies	NA-3	T5N, R18E Sections 31, 32 Town of Mukwonago T4N, R18E Sections 5, 6 Town of East Troy	Department of Natural Resources and private	312 (plus 371 in Walworth County)	Large area of disturbed upland oak woods, with associated areas of dry prairie and wetlands.
55	Vernon Marsh Low Woods	NA-3	T5N, R19E Section 5 Town of Vernon	Department of Natural Resources	24	Species-rich low woods within the Vernon Marsh
56	Porter Low Woods	NA-3	T5N, R19E Sections 20, 29, 30 Town of Vernon	Waukesha County and private	245	Good-quality wet-mesic woods and adjacent open wetlands bordering the Fox River. Characteristic tree species include black ash, swamp white oak, black walnut, and shagbark hickory. Aside from light cutting decades ago, the stand has not been disturbed
57	River Oaks Woods and Wetlands	NA-3	T5N, R19E Sections 25, 26 Town of Vernon	Waukesha County and private	123	Disturbed xeric oak woods and adjacent open wetlands bordering the Fox River
58	Reinke Sedge Fen	NA-3	T5N, R19E Section 26 Town of Vernon	Private	18	Relatively diverse prairie fen and sedge fen complex on sloping hillside
59	Norris Oak Woods and Wetlands	NA-3	T5N, R19E Sections 26, 35 Town of Vernon T4N, R19E Section 1 Town of Waterford	Private	364 (plus 6 in Racine County)	Two separate disturbed oak woods and adjacent open wetlands bordering the Fox River
60	Ryan Road Swamp	NA-3	T5N, R20E Section 24 City of Muskego	Private	45	Lowland hardwood swamp with some northern elements
61	Luther Parker Cemetery Prairie	NA-3	T5N, R20E Section 25 City of Muskego	City of Muskego	1	Small pioneer cemetery containing a remnant of mesic prairie, an uncommon community type in this part of the Region. The rich native flora has been invaded by exotic species. Active management includes periodic prescribed burns
62	Perkins Property	NA-3	T6N, R17E Sections 5, 6 Town of Ottawa T7N, R17E Sections 31, 32 Town of Summit	Izaak Walton League and other private	445	Complex of lowland hardwoods, upland oak woods, shallow marsh, sedge meadow, shrub-carr, and tamarack bog. Contains the State-designated threatened forked aster (<i>Aster furcatus</i>). Past history of water-level changes due to ditching of adjacent wetlands
63	Nelson Oak Woods and Wetlands	NA-3	T6N, R17E Sections 9, 10 Town of Ottawa	Waukesha Land Conservancy	91	Disturbed oak woods and adjacent lowlands containing sedge meadow and tamarack relict bordering the Bark River. The upland woods contains an active great blue heron rookery

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
64	Ottawa Limestone Outcrop	NA-3	T6N, R17E Sections 11, 14 Town of Ottawa	Ice Age Trail Foundation and other private	67	Disturbed xeric woods with local area of shaded limestone outcrop, containing walking fern (<i>Camptosorus rhizophyllus</i>)
65	Casper Creek Sedge Meadow	NA-3	T6N, R17E Section 14 Town of Ottawa	Private	16	Good-quality sedge meadow and shallow marsh along Casper Creek
66	Larkin Lake	NA-3	T6N, R17E Section 15 Town of Ottawa	Private and State of Wisconsin Public Trust Lands	40	Very shallow, mostly undeveloped lake. The surrounding uplands have been grazed and plowed, and are threatened by future residential development
67	Pretty Lake Tamarack Relict	NA-3	T6N, R17E Sections 21, 28 Town of Ottawa	Private	84	Tamarack relict, lowland hardwoods, and sedge fen
68	CTH ZC Lowlands	NA-3	T6N, R17E Sections 29, 31, 32 Town of Ottawa	Waukesha Land Conservancy and other private	378	Extensive wetland complex, disturbed by past land use activities
69	Scuppernong Springs Dry Prairie and Xeric Woods	NA-3	T6N, R17E Section 34 Town of Ottawa	Department of Natural Resources	46	Dry sand prairie on exposed west-facing slope and surrounding dry oak woods. Contains a number of critical and regionally uncommon plant species
70	Ottawa Lake Prairie	NA-3	T6N, R17E Section 34 Town of Ottawa	Department of Natural Resources	12	Wet-mesic prairie, enhanced by prescribed burn management
71	Brown's Fen	NA-3	T6N, R18E Section 1 Town of Genesee	Waukesha County	2	Moderate-quality fen within Retzer Nature Center
72	Fruits Pond Fen	NA-3	T6N, R19E Section 4 City of Waukesha	City of Waukesha	16	Moderate-quality wetland complex of fen, shrub-carr, and sedge meadow. Disturbances include past filling and dumping. Contains two State-designated special concern species: Ohio goldenrod (<i>Solidago ohioensis</i>) and lesser fringed gentian (<i>Gentianopsis procera</i>)
73	Pebble Creek Railroad Prairie	NA-3	T6N, R19E Sections 7, 8 Town of Waukesha	Waukesha County	7	Good-quality mesic prairie and lesser-quality dry prairie along railway right-of-way. Requires active burn management
74	Pebble Creek Wetlands	NA-3	T6N, R19E Sections 8, 17 Town of Waukesha City of Waukesha	City of Waukesha and private	75	Moderate-quality wetlands bordering Pebble Creek. The area north of highway is in best condition. Consists of a combination of sedge meadow, shrub-carr, cattail marsh, and disturbed wet-mesic prairie
75	Minooka Park Woods	NA-3	T6N, R19E Section 13 Town of Waukesha City of Waukesha	Waukesha County	89	A relatively large but disturbed xeric woods dominated by white and red oaks and red maple. Past grazing history is indicated by abundance of thorny species
76	Pebble Creek Woods—North	NA-3	T6N, R19E Section 22 Town of Waukesha	Private	9	Small, but species-rich dry-mesic woods
77	Pebble Creek Woods—South	NA-3	T6N, R19E Section 22 Town of Waukesha	Private	15	Small, but species-rich dry-mesic woods
78	Fox River Woods	NA-3	T6N, R19E Sections 31, 32, 33 Town of Waukesha T5N, R19E Sections 4, 5 Town of Vernon	Department of Natural Resources and private	411	Disturbed dry-mesic and wet-mesic woodland along Fox River. Best area is near center of tract. Past disturbances include selective cutting and ditching attempts
79	Vernon Wet-Mesic Prairie	NA-3	T6N, R19E Section 32 Town of Waukesha	Department of Natural Resources	16	Wet-mesic prairie remnant and sedge meadow recovering from past agricultural practices

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
80	New Berlin Woods	NA-3	T6N, R20E Sections 11, 14 City of New Berlin	City of New Berlin	36	Small dry-mesic hardwoods with shallow depressions that retain water in spring. Dominant trees include white and red oaks and sugar maple. American gromwell (<i>Lithospermum latifolium</i>), a State-designated species concern species, is present
81	Moorland Road Woods and Ponds	NA-3	T6N R20E Section 23 City of New Berlin	Private	26	Good-quality ephemeral wetlands located within moderate-quality dry-mesic upland woods; ponds support two State-designated endangered species, crow-spur sedge (<i>Carex crus-corvi</i>) and hoplike sedge (<i>Carex lupuliformis</i>)
82	Oconomowoc Swamp	NA-3	T7N, R17E Sections 5, 8 Town of Summit	City of Oconomowoc, Waukesha Land Conservancy, and other private	148	Wooded lowland consisting of shrub-carr, tamarack relict, and lowland hardwoods, with small areas of sedge meadow. Has suffered from groundwater-level changes in the area
83	Crossroads Bog	NA-3	T7N, R17E Sections 19, 20 Town of Summit	Private and State of Wisconsin Public Trust Lands	4	Disturbed tamarack swamp surrounding small pond and bog mat. Best area, dominated by wiregrass sedge, is on the east side. A number of calciphilic species are present at low densities
84	Laura Lake Swamp	NA-3	T7N, R17E Sections 20, 21 Town of Summit	Private and State of Wisconsin Public Trust Lands	278	Large, disturbed wooded wetland interspersed with dry-mesic forested islands. Area includes Battle Creek and small developed lake
85	Breens Bay Sedge Meadow	NA-3	T7N, R17E Section 25 Town of Summit	Private	16	Calcareous sedge meadow at south end of Lower Nemahbin Lake. Contains Ohio goldenrod (<i>Solidago ohioensis</i>), a State-designated special concern species
86	Dousman Road Fen-Meadow	NA-3	T7N, R17E Section 33 Town of Summit	Private	3	Good-quality sedge fen
87	Capitol Drive Sedge Meadow and Wet Prairie	NA-3	T7N, R18E Sections 1, 12 City of Delafield T7N, R19E Section 7 City of Pewaukee	Pewaukee Lake Sanitary District, City of Pewaukee, and private	90	Moderate-quality sedge meadow, wet-mesic prairie, and shallow marsh. Disturbed by highway construction
88	Pewaukee Lake Wetland	NA-3	T7N, R19E Section 7 City of Pewaukee T7N, R18E Sections 1, 12 Town of Delafield	Private	65	Moderate-quality wetland complex at northwest corner of Pewaukee Lake, consisting of shallow marsh, sedge meadow, and shrub-carr
89	Hartland Railroad Prairie	NA-3	T7N, R18E Section 2 Village of Hartland	Private	4	Remnant mesic prairie, mostly on hill on north side of railway right-of-way. Characteristic species include big bluestem, rough blazing star, and prairie dock. Threatened by adjacent residential development
90	Prairie Wind Farms Woods	NA-3	T7N, R18E Section 2 Town of Delafield	Private	22	Moderate-quality dry-mesic woods within residential development
91	Nashotah House Woods	NA-3	T7N, R18E Sections 6, 7 City of Delafield Village of Nashotah	Private	101	Relatively large but disturbed xeric oak woods with a thick shrub layer. Disturbances include a network of wide trails and past grazing and selective cutting

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
92	Bark River School Sedge Meadow	NA-3	T7N, R18E Section 9 City of Delafield	Private	17	Small sedge meadow of moderate quality on north side of Bark River
93	Golf Cliff Ridge and Woods	NA-3	T7N, R18E Section 23 Town of Delafield	Private	8	Small woodland containing limestone outcrops
94	Lapham Peak Woods	NA-3	T7N, R18E Sections 29, 32 33 City of Delafield	Department of Natural Resources, Department of Health and Social Services, and private	486	Extensive but isolated xeric oak woods on rough interlobate moraine, dominated by white, red, and bur oaks; shagbark hickory; and black cherry. There is a past history of grazing and selective cutting. Threatened by encroaching subdivisions. Contains the late coral-root orchid (<i>Corallorhiza odontorhiza</i>), a State-designated special concern species
95	Pewaukee Sedge Meadow	NA-3	T7N, R19E Section 8 City of Pewaukee	Private	13	Small, but good-quality sedge meadow and shallow marsh, with large areas of lake sedge
96	Pewaukee Park Sedge Meadow	NA-3	T7N, R19E Section 9 Village of Pewaukee	Private	42	Moderate- to good-quality shallow marsh and sedge meadow, disturbed by ditching, highway construction, and residential development
97	Busse Woods	NA-3	T7N, R19E Section 23 City of Pewaukee	Private and SEWRPC	40	Moderate- to good-quality wet-mesic and dry-mesic forest mixture
98	Wirth Swamp	NA-3	T7N, R20E Section 15 City of Brookfield	City of Brookfield and private	85	Degraded floodplain forest of lowland hardwoods, disturbed by ditching, residential encroachment, and Dutch elm disease
99	Brookfield Swamp	NA-3	T7N, R20E Sections 21, 28 City of Brookfield	City of Brookfield and private	201	Lowland hardwood forest of silver maple, green ash, and American elm, degraded by ditching, residential encroachment, and Dutch elm disease
100	Bishops Woods	NA-3	T7N, R20E Sections 25, 36 City of Brookfield	Private	44	Formerly one of the best dry-mesic hardwood stands in the Region, now much degraded and reduced in size because of business park development. Small areas are still of good quality, but there is severe loss of forest interior. Dominant trees include sugar maple, red oak, and basswood
101	Oconomowoc Sedge Meadow	NA-3	T8N, R17E Section 14 Town of Oconomowoc	Private and State of Wisconsin Public Trust Lands	19	Moderate- to good-quality deep and shallow marsh bordering the Oconomowoc River, disturbed by channelizing and highway construction
102	Meadow View School Bog	NA-3	T8N, R17E Sections 15, 22 Town of Oconomowoc	Oconomowoc Area School District and private	11	Moderate- to good-quality sphagnum bog with small tamaracks
103	Raasch Tamarack Swamp	NA-3	T8N, R17E Sections 16, 17 Town of Oconomowoc	Department of Natural Resources and private	96	Relatively large but rather depauperate tamarack—leatherleaf—sphagnum swamp, disturbed by ditching and dredging
104	Lac La Belle Lowlands	NA-3	T8N, R17E Section 19 Town of Oconomowoc Village of Lac La Belle T8N, R16E Section 24 Town of Ixonia	Private	33 (plus 16 in Jefferson County)	Lowland complex northwest of Lac La Belle, consisting of lowland hardwoods, shrub-carr, shallow marsh, and fresh (wet) meadow. Disturbances include ditching, water-level changes, selective cutting, agricultural runoff, and residential development. Extends into Jefferson County

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
105	Oconomowoc River Marsh	NA-3	T8N, R17E Sections 33, 34 Town of Oconomowoc	Wisconsin Department of Transportation and private	99	Cattail-dominated deep and shallow marsh bordering the Oconomowoc River, disturbed by channelizing and highway construction
106	Camp Whitcomb Lowland	NA-3	T8N, R18E Sections 2, 11 Town of Merton	Boys and Girls Clubs of Greater Milwaukee	49	A wetland complex of moderate quality, consisting of shrub-carr, sedge meadow, and shallow marsh. Disturbances include water-level changes and boardwalk construction
107	Chenequa Wetland Complex	NA-3	T8N, R18E Sections 8, 9, 16, 17 Town of Merton	Private and Waukesha County	114	Lowland complex of shrub-carr, sedge meadow, shallow marsh, tamarack relict, and lowland hardwoods
108	Merton Millpond and Woods	NA-3	T8N, R18E Section 13 Town of Merton T8N, R19E Section 18 Town of Lisbon	Village of Merton, Waukesha County, and private	66	Woods and wetlands bordering millpond
109	Colgate Road Swamp and Woods	NA-3	T8N, R19E Section 2 Town of Lisbon	Private	170	Mixture of upland and lowland woods
110	Lisbon Low Woods	NA-3	T8N, R19E Sections 10, 11 Town of Lisbon	Private and Department of Natural Resources	261	Large, but disturbed lowland hardwoods swamp, with mesic hardwoods on isolated uplands. Adversely affected by ditching attempts
111	Sussex Swamp	NA-3	T8N, R19E Sections 11, 12 Town of Lisbon	Private	148	Lowland hardwood swamp dominated by black willow and green ash
112	Thousand Oaks Tamarack Relict	NA-3	T8N, R19E Section 17 Town of Lisbon	Private and Waukesha County	30	Small kettle pond surrounded by shallow marsh, narrow bog mat, and disturbed combination of shrub-carr, lowland hardwoods, and tamaracks. Contains some northern relict species
113	Coolings Sedge Meadow	NA-3	T8N, R19E Section 23 Village of Sussex	Waukesha County and private	13	Moderate-quality sedge meadow and fresh (wet) meadow complex disturbed by sewer-line construction
114	Peters Woods	NA-3	T8N, R20E Sections 5, 8 Village of Menomonee Falls	Private	82	Moderate-quality dry-mesic and wet-mesic hardwoods. The tree stratum, dominated by sugar maple, red oak, and basswood, includes Kentucky coffeetree (<i>Gymnocladus dioica</i>), a State-designated special concern species
115	Zuba Woods	NA-3	T8N, R20E Sections 16, 17 Village of Lannon	Private and Waukesha County	117	Moderate- to good-quality mesic and wet-mesic hardwoods, with a rich ground flora
116	Menomonee River Swamp	NA-3	T8N, R20E Section 25 Village of Menomonee Falls City of Milwaukee	Private	31	Small, moderate-quality lowland hardwood forest along the Menomonee River
117	Theater Swamp	NA-3	T8N, R20E Section 35 Village of Menomonee Falls	Village of Menomonee Falls	92	Moderate-quality dry-mesic and wet-mesic hardwoods, with local areas of higher quality supporting large swamp white oaks. Dredged stream channel contains runoff from surrounding residences and abundant green algae
118	Clarks Woods	NA-3	T8N, R20E Section 36 Village of Butler	Waukesha County and private	23	Small, but good-quality mesic hardwoods stand on summit and north- and east-facing slopes above the Menomonee River. Floodplain forest is present on flats bordering the river. Threatened by development of uplands

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
119	Kettle Moraine Recovering Prairie	CSH	T5N, R17E Section 9 Town of Eagle	Department of Natural Resources	17	Wet-mesic prairie being restored through brush cutting and burn management
120	Headquarters Grassland	CSH	T5N, R17E Section 20 Town of Eagle	Department of Natural Resources	28	Artificial grassland provides habitat for upland sandpiper
121	Eagle Dump Oak Opening	CSH	T5N, R17E Section 26 Town of Eagle	Private	72	Patchy xeric oak woods contains a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
122	Jericho Creek Oak Woods	CSH	T5N, R17E Section 24 Town of Eagle	Private	69	Patchy xeric oak woods contains a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
123	Domon Prairie Remnant	CSH	T5N, R17E Section 27 Town of Eagle	Private	1	Small remnant patch of mesic prairie
124	Nature Road Woodland and Dry Prairie	CSH	T5N, R17E Section 34 Town of Eagle	Private	44	Patchy xeric oak woods contains a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
125	Dunlop Dry-Mesic Prairie	CSH	T5N, R18E Section 3 Town of Mukwonago	Waukesha County	9	Small, disturbed remnant of dry prairie
126	Spring Lake Woods	CSH	T5N, R18E Section 8 Town of Mukwonago	Private	14	Patchy xeric oak woods contains a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
127	Romanowski Fen	CSH	T5N, R18E Section 15 Town of Mukwonago	Private	9	Small prairie fen containing two special concern species
128	Stonegate Dry Prairie	CSH	T5N, R18E Section 15 Town of Mukwonago	Private	3	Small, disturbed remnant of dry prairie
129	Greenwald Woods	CSH	T5N, R18E Section 23 Town of Mukwonago	Department of Natural Resources and private	58	Patchy xeric oak woods contains a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
130	Mukwonago Park Oak Opening	CSH	T5N, R18E Sections 28, 29 Town of Mukwonago	Waukesha County	83	Managed oak opening is one of few locations for Franklin's ground squirrel
131	Vernon Marsh	CSH	T5N, R18E Sections 11, 12, 13, 14, 23, 24 Town of Mukwonago T5N, R19E Sections 5, 6, 7, 8, 18 Town of Vernon	Department of Natural Resources and private (protected with conservation easement)	4,156	Extensive managed wetlands provide habitat for a large number of bird species, including black terns and sandhill cranes
132	Mill Brook Fen	CSH	T5N, R19E Section 10 Town of Vernon	Private	13	Small area of prairie fen along stream supports Ohio goldenrod (<i>Solidago ohioensis</i>), a State-designated special concern species
133	Pheasant Hill Woods	CSH	T5N, R19E Section 15 Town of Vernon	Private	24	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
134	Schroeder Woods	CSH	T5N, R20E Sections 5, 6 City of Muskego	Private	35	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
135	Janesville Road Woods	CSH	T5N, R20E Section 10 City of Muskego	Private	2	Small woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
136	Old Muskego Settlement Woods	CSH	T5N, R20E Section 16 City of Muskego	City of Muskego and private	18	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
137	Denoon Lake Wetlands	CSH	T5N, R20E Section 31 City of Muskego	Private	30	Wetlands adjacent to Denoon Lake provide breeding habitat for black terns
138	Peters Oak Woods	CSH	T5N, R20E Section 33 City of Muskego	WisDOT	23	Xeric oak woods contains active great blue heron rookery
139	Utica Lake Tamaracks	CSH	T6N, R17E Section 4 Town of Ottawa	Private	36	Disturbed tamarack relict contains small yellow lady's-slipper orchid (<i>Cypripedium parviflorum</i>) a State-designated special concern species
140	Dousman Mill Pond	CSH	T6N, R17E Section 10 Village of Dousman	Public Trust Lands and Town of Ottawa	36	Open water and adjacent wetlands provide habitat for such critical bird species as black tern, common moorhen, least bittern, and American bittern
141	Pogodzinski Kittentails Site	CSH	T6N, R17E Section 11 Town of Ottawa	Private	1	Open upland woodland supports a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
142	Stephenson Shrubby Fen	CSH	T6N, R17E Section 11 Town of Ottawa	Private	27	Disturbed prairie fen supports small white lady's-slipper orchid (<i>Cypripedium candidum</i>), a State-designated threatened species
143	Koller Farms Kittentails Site	CSH	T6N, R17E Section 13 Town of Ottawa	Private	1	Pastured hillside supports a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
144	Lurvey Tamaracks	CSH	T6N, R17E Section 15 Town of Ottawa	Private	179	Disturbed low woods provide habitat for such critical bird species as Acadian flycatcher, cerulean warbler, hooded warbler, yellow-breasted chat, and blue-winged warbler, in addition to showy lady's-slipper orchid (<i>Cypripedium reginae</i>), a State-designated special concern species
145	School Section Lake	CSH	T6N, R17E Sections 16, 17 Town of Ottawa	Private	10	Wetlands adjacent to School Section Lake provide breeding habitat for black terns
146	PEL 1134 Oak Opening	CSH	T6N, R17E Section 23 Town of Ottawa	Department of Natural Resources	141	Patchy xeric oak woods contains a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species
147	Dog Trial Area	CSH	T6N, R17E Sections 27, 34 Town of Ottawa	Department of Natural Resources	181	Sandy old field and remnant sand prairie provide habitat for such critical bird species as grasshopper sparrow and blue-winged warbler
148	Unnamed Shrub-Grassland	CSH	T6N, R17E Sections 27, 28 Town of Ottawa	Department of Natural Resources	349	A number of critical bird species utilize this shrubby grassland, including grasshopper sparrow, upland sandpiper, king rail, blue-winged warbler, golden-winged warbler, and American woodcock
149	Ottawa Lake Dry Woods	CSH	T6N, R17E Section 34 Town of Ottawa	Department of Natural Resources	13	Remnant dry oak woodland between campground and wetland
150	Dragon Fen	CSH	T6N, R18E Section 3 Town of Genesee	Private	1	Small fen supports beaked spike-rush (<i>Eleocharis rostellata</i>), a State-designated threatened species
151	Davies Marlow Grassland	CSH	T6N, R18E Section 2 Town of Genesee	Private	62	Pastured grassland provides nesting habitat for Henslow's sparrow, a State-designated threatened species
152	Roberts Oak Opening	CSH	T6N, R18E Section 9 Town of Genesee	Private	4	Patchy xeric oak woods contains a population of kittentails (<i>Besseyia bullii</i>), a State-designated threatened species

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
153	Borrow Pit Prairie	CSH	T6N, R18E Section 11 Town of Genesee	Department of Natural Resources	3	Dry prairie remnant on excavated hillside supports a population of kittentails (<i>Besseya bullii</i>), a State-designated threatened species
154	Schanke Property	CSH	T6N, R18E Section 17 Town of Genesee	Private	32	Patchy xeric oak woods contains a population of kittentails (<i>Besseya bullii</i>), a State-designated threatened species
155	Lunt-Fontanne Park Prairie	CSH	T6N, R18E Section 21 Town of Genesee	Town of Genesee and private	20	Small, disturbed remnants of dry prairie
156	Grush Road Dry Prairie	CSH	T6N, R18E Section 29 Town of Genesee	Private	4	Small, disturbed remnant of dry prairie
157	North Prairie Dry Prairie	CSH	T6N, R18E Section 31 Town of Genesee	Private	1	Small, disturbed remnant of dry prairie
158	North Prairie Kettle Deep Marsh	CSH	T6N, R18E Section 32 Town of Genesee	Private	20	Wetlands adjacent to kettle pond provide breeding habitat for black terns
159	Delopst Meadow	CSH	T6N, R20E Section 6 City of New Berlin	Private	23	Open calcareous wetland supports Ohio goldenrod (<i>Solidago ohioensis</i>), a State-designated special concern species
160	Stigler Woods	CSH	T6N, R20E Section 9 City of New Berlin	City of New Berlin and private	53	Woodland supports a population of heartleaved skullcap (<i>Scutellaria ovata</i>), a State-designated special concern species
161	Kostello Property	CSH	T6N, R20E Section 10 City of New Berlin	Private	11	Woodland ponds contain hoplike sedge (<i>Carex lupuliformis</i>), a State-designated endangered species
162	Swartz Woods	CSH	T6N, R20E Section 19 City of New Berlin	Private	36	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
163	Schkeryantz Woods	CSH	T6N, R20E Section 24 City of New Berlin	Private	6	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
164	Spring Valley Woods	CSH	T6N, R20E Section 32 City of New Berlin	Muskego Lakes Land Conservancy, Linnie Lac Management District, Little Muskego Lake District, and private	14	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
165	Massaro Woods	CSH	T7N, R17E Section 13 Town of Summit	Private	6	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
166	Duck Lake	CSH	T7N, R17E Section 22 Town of Summit	Private	38	Wetlands adjacent to Duck Lake provide breeding habitat for black terns
167	Genesee Lake Road Tamaracks	CSH	T7N, R17E Section 29 Town of Summit	Private	111	Tamarack and lowland hardwood swamp complex contains showy lady's-slipper orchid (<i>Cypripedium reginae</i>), a State-designated special concern species
168	Jungbluth Road Railroad Prairie	CSH	T7N, R18E Section 1 Town of Delafield	Waukesha County and private	2	Small, narrow remnant of wet-mesic prairie between railway and highway
169	Nagawicka Lake	CSH	T7N, R18E Sections 5, 8 City of Delafield	Private	23	Wetlands bordering lake provide habitat for a number of critical bird species, including worm-eating warbler, cerulean warbler, Acadian flycatcher, Kentucky warbler, and black tern
170	Taylor Road Woods	CSH	T7N, R18E Section 12 Town of Delafield	Private	30	Disturbed upland woods supports late coral-root orchid (<i>Corallorhiza odontorhiza</i>), a State-designated special concern species

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
171	Swan Farms Woods	CSH	T7N, R19E Sections 2, 11 City of Pewaukee	Private	71	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
172	Meadowbrook Prairie	CSH	T7N, R19E Section 18 City of Pewaukee	Pewaukee Lake Sanitary District	16	Good population of small white lady's-slipper orchid (<i>Cypripedium candidum</i>), a State-designated threatened species, in managed wet-mesic prairie
173	CTH M Shrubland	CSH	T7N, R19E Section 24 City of Pewaukee	Private	41	Large population of the State-designated special concern hoptree (<i>Ptelea trifoliata</i>) found in shrubland and second-growth woods
174	Steinacker Woods	CSH	T7N, R20E Section 5 City of Brookfield	City of Brookfield, Waukesha County, and private	161	Disturbed woodland contains active great blue heron rookery
175	Brookfield Oak Woods	CSH	T7N, R20E Section 20 City of Brookfield	Private	4	Small dry-mesic woodland recently diminished in size by residential subdivision
176	Underwood Creek Woods	CSH	T7N, R20E Section 24 Village of Elm Grove	Village of Elm Grove and private	22	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
177	Elm Grove Road Pond	CSH	T7N, R20E Section 25 Village of Elm Grove	Private	8	One of the few locations in Wisconsin for crow-spur sedge (<i>Carex crus-corvi</i>), a State-designated endangered species
178	Kinsey Park Woods	CSH	T7N, R20E Section 36 City of Brookfield	City of Brookfield and private	7	Woodland supports red trillium (<i>Trillium recurvatum</i>), a State-designated special concern species
179	Stonebank Tamarack Relict	CSH	T8N, R17E Sections 13, 14, 24 Town of Oconomowoc	Private and State of Wisconsin Public Trust Lands	192	Patchy tamarack and lowland hardwood swamp provides habitat for such critical bird species as black-crowned night heron and veery
180	North Lake Low Woods	CSH	T8N, R18E Section 16 Town of Merton	Private	38	Disturbed low woods supports forked aster (<i>Aster furcatus</i>), a State-designated threatened species
181	Nashotah Park Woods	CSH	T8N, R18E Section 31 Town of Merton	Waukesha County	106	Disturbed xeric oak woods contains late coral-root orchid (<i>Corallorhiza odontorhiza</i>), a State-designated special concern species
182	Menomonee River Parkway Woods	CSH	T8N, R20E Sections 7, 18 Village of Menomonee Falls	Waukesha County	7	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
183	Campground Woods	CSH	T8N, R20E Sections 7, 18 Village of Menomonee Falls	Waukesha County and private	116	Dry-mesic and wet-mesic woods and exposed limestone outcrops provide habitat for large yellow lady's-slipper orchid (<i>Cypripedium pubescens</i>), a State-designated special concern species
184	Ranch Woodland	CSH	T8N, R20E Sections 8, 9 Village of Menomonee Falls	Private	4	Woodland supports American gromwell (<i>Lithospermum latifolium</i>), a State-designated special concern species
185	Heritage Woods	CSH	T8N, R20E Section 13 Village of Menomonee Falls	Private	28	One of few locations in Region for snow trillium (<i>Trillium nivale</i>), a State-designated threatened species
186	Thorndell Avenue Woods	CSH	T8N, R20E Section 14 Village of Menomonee Falls	Private	15	Remnant upland woods in residential area supports handsome sedge (<i>Carex formosa</i>), a State-designated threatened species

Table 43 (continued)

Map 45 Reference Number	Area Name	Classification Code	Location	Ownership	Size (acres)	Description and Comments
187	Rademan's Woods	CSH	T8N, R20E Section 16 Village of Menomonee Falls	Private	22	Woodland ponds contain hoplike sedge (<i>Carex lupuliformis</i>), a State-designated endangered species
188	Fox River Woodland	CSH	T8N, R20E Section 31 Village of Menomonee Falls	Private and Waukesha County	34	Small woodland adjacent to Fox River provides habitat for great egret
189	Glass-Glick Woods	CSH	T8N, R20E Section 34 Village of Menomonee Falls	Private	2	Remnant upland woods in residential area supports handsome sedge (<i>Carex formosa</i>), a State-designated threatened species

Note: Shaded areas indicate new areas.

Source: SEWRPC.





PLAN IMPLEMENTATION

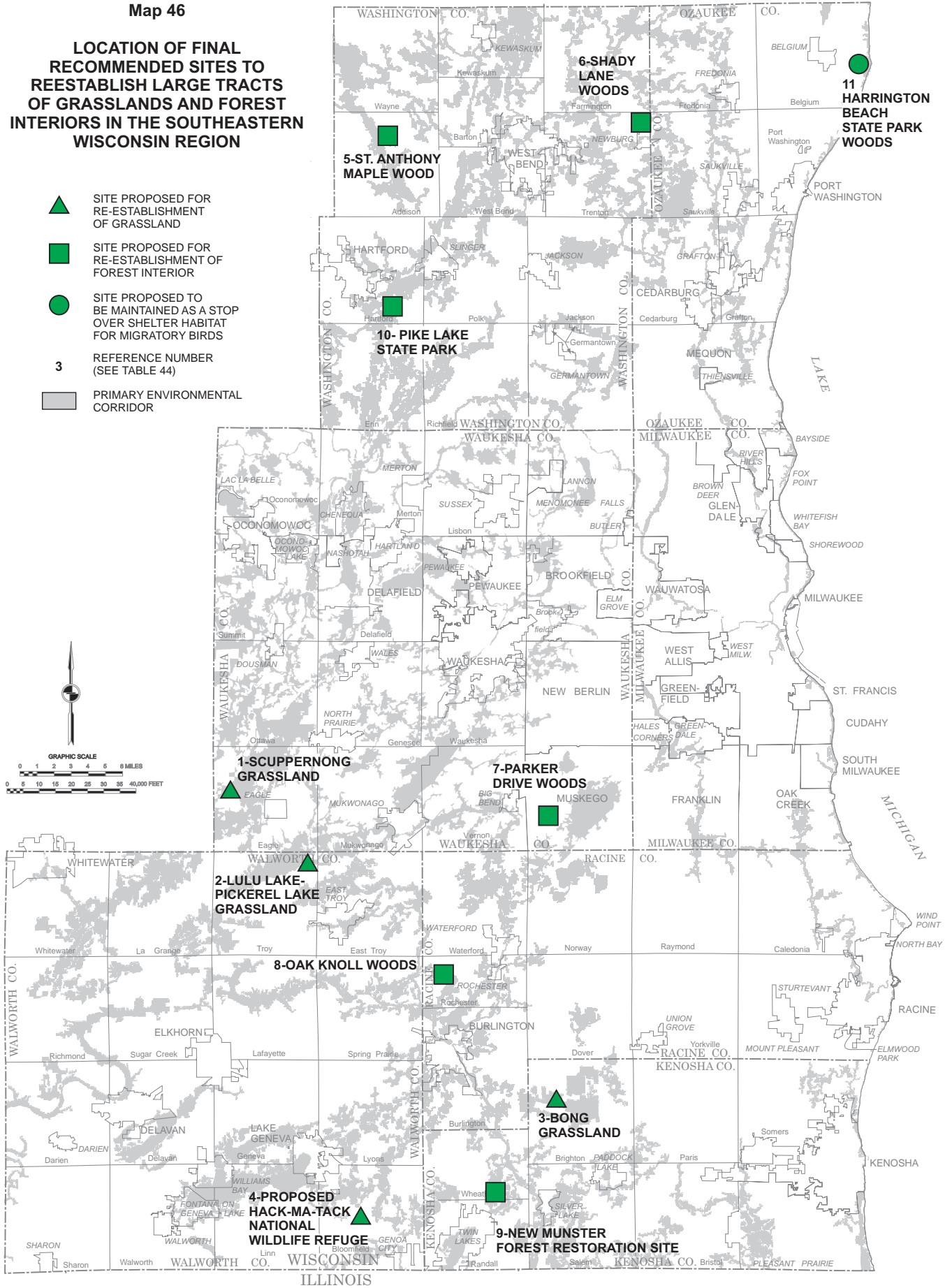
This report presents recommendations directed toward the concerned Federal, State, county, and local units and agencies of government, as well as private conservancy organizations, to implement the recommended natural areas and critical species habitat protection and management plan. Recommended actions include formal adoption or endorsement of the plan; integration of the plan findings and recommendations into the work program of each agency—including, at the county and local levels, integration into land use and other development plans; acquisition of Natural Areas, Critical Species Habitat sites, and Geological Areas as recommended in the plan; and proper management of all sites which are placed under protective ownership.

Under the plan, the permanent protection of Natural Areas, Critical Species Habitat sites, and Geological Areas depends in large measure on site acquisition and management by numerous public and private agencies. Site-specific recommendations directed toward State agencies, counties, local units of government, and private conservation organizations are set forth in the plan. The plan recommends that the Wisconsin Department of Natural Resources assume responsibility for ownership and management of 172 individual Natural Areas, Critical Species Habitat sites, Geological Areas, grassland, and forest interior sites in the Region (Table 46). The plan recommends that the seven counties comprising the Region assume responsibility for ownership and management of 226 sites (Tables 47 through 53); cities, villages, towns, school districts, and other local units of government do so for 135 sites (Tables 54 through 60); and private conservancy organizations do so for 211 sites (Table 61). The Wisconsin Department of Transportation and the University of Wisconsin would be responsible for ownership and management of 17 sites (Table 62). Federal agencies would be responsible for ownership and management of six sites (Table 63), plus one grassland site proposed to be jointly owned and managed by the U.S. Fish and Wildlife Service and the Wisconsin Department of Natural Resources.

Map 46

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

-  SITE PROPOSED FOR RE-ESTABLISHMENT OF GRASSLAND
-  SITE PROPOSED FOR RE-ESTABLISHMENT OF FOREST INTERIOR
-  SITE PROPOSED TO BE MAINTAINED AS A STOP OVER SHELTER HABITAT FOR MIGRATORY BIRDS
- 3** REFERENCE NUMBER (SEE TABLE 44)
-  PRIMARY ENVIRONMENTAL CORRIDOR



Source: SEWRPC.

Table 44

**SUMMARY OF SITES RECOMMENDED TO HELP REESTABLISH RELATIVELY LARGE TRACTS
OF GRASSLANDS AND FOREST INTERIORS IN THE SOUTHEASTERN WISCONSIN REGION**

Site Category	Site Identification			Site Area (acres)	Relationship of Site to Inventoried Natural Areas or Critical Species Habitat Sites	Relationship of Site to Already Protectively Owned lands or Already Established Project Boundaries	Proposed Acquisition Agency	Acquisition Cost
	Reference Number on Map 46	Civil Division	Name					
Grasslands	1	Town of Eagle	Scuppernong	2,115	This site encompasses the entirety of three previously inventoried sites: 1) the Scuppernong Prairie State Natural Area site of statewide significance (713 acres); 2) the Paradise Creek Prairie of local significance (101 acres); and 3) the Headquarters Grassland Critical Species Habitat site (28 acres). Thus, a total of 842 acres, or about 40 percent, of this proposed large grassland site has already been recommended for preservation and protection. The remaining 1,273 acres of this site represent additional lands either already acquired or proposed to be acquired	This entire site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest. The Wisconsin Department of Natural Resources already owns 1,532 acres, or 72 percent, of the entire site	Wisconsin Department of Natural Resources	\$7,164,000
	2	Town of Troy	Lulu Lake—Pickerel Lake	1,696	This site is adjacent to, but does not contain, inventoried Natural Areas or Critical Species Habitat sites	About 455 acres, or 30 percent, of this site lie within either the Lulu Lake State Natural Area project boundary established by the Wisconsin Department of Natural Resources, or within the Lulu Lake—Pickerel Lake Fen project boundary established by The Nature Conservancy. The Wisconsin Department of Natural Resources and The Nature Conservancy together now own a total of 265 acres, or 17 percent of the entire site	Wisconsin Department of Natural Resources	\$15,300,000
	3	Town of Brighton	Bong	10,000	Nearly 50 percent of this site, or 4,780 acres, consists of the great majority of the previously inventoried Bong State Recreation Area Critical Species Habitat site	About one-half of this site is publicly owned, lying within the Bong State Recreation Area and the Kenosha and Salem School Forest properties.	Wisconsin Department of Natural Resources	\$50,000,000
	4	Town of Linn Town of Bloomfield	Proposed Hackma-tack National Wildlife Refuge	5,000	This site does not contain inventoried Natural Areas or Critical Species Habitat sites	With the exception of the 128-acre Peterken Pond Wildlife Area, this site is not in existing protective ownership or located within an established project boundary	Wisconsin Department of Natural Resources and U.S. Fish and Wildlife Service	\$50,000,000
Forest Interiors	5	Town of Addison	St. Anthony Maple Woods	167	This site encompasses the entirety of the St. Anthony Maple Woods Critical Species Habitat site (90 acres). These 90 acres have already been recommended for preservation and protection. The remaining 70 acres of this site represent additional lands proposed to be acquired	This site is not in existing protective ownership or located within an established project boundary; however, this site is located approximately 0.25 mile from the Theresa Marsh State Wildlife Area	Local unit of government	\$720,000
	6	Town of Trenton	Shady Lane Woods	162	This site does not contain inventoried Natural Areas or Critical Species Habitat sites	This site is not in existing protective ownership or located within an established project boundary	Private conservancy organization	\$156,000
	7	City of Muskego	Parker Drive Woods	127	This site does not contain inventoried Natural Areas or Critical Species Habitat sites	This site is not in existing protective ownership or located within an established project boundary	Local unit of government	\$1,476,000
	8	Village of Rochester	Oak Knoll Woods	166	This site does not contain inventoried Natural Areas or Critical Species Habitat sites	About 40 acres, or 25 percent, of this site is currently owned by the Wisconsin Department of Natural Resources. This site is adjacent to the Honey Creek State Wildlife Area, but is not located within an established project boundary	Wisconsin Department of Natural Resources	\$660,000

Table 44 (continued)

Site Category	Site Identification			Site Area (acres)	Relationship of Site to Inventoried Natural Areas or Critical Species Habitat Sites	Relationship of Site to Already Protectively Owned lands or Already Established Project Boundaries	Proposed Acquisition Agency	Acquisition Cost
	Reference Number on Map 46	Civil Division	Name					
Forest Interiors (continued)	9	Town of Wheatland	New Munster Forest Restoration Site	709	This site does not contain inventoried Natural Areas or Critical Species Habitat sites	This site is located entirely within the New Munster Wildlife Area	Wisconsin Department of Natural Resources	--
	10	Town of Hartford	Pike Lake State Park	167	This site is an addition to the Pike Lake Woods Natural Area (NA-2)	This site is located entirely within the Pike Lake State Park	Wisconsin Department of Natural Resources	--
Other	11	Town of Belgium	Harrington Beach State Park Woods ^a	400	This site does not contain inventoried Natural Areas. However, critical bird species have been identified as using this site	This site is located entirely within the Harrington Beach State Park	Wisconsin Department of Natural Resources	--

^a The Harrington Beach State Park Woods site will continue to be maintained as grassland bird nesting habitat. The remaining forested and shrubland habitat will be maintained to provide stopover shelter habitat for migratory birds.

Source: SEWRPC.

Table 45

NATURAL AREAS AND CRITICAL SPECIES HABITAT AREAS IDENTIFIED SINCE PLANNING REPORT NUMBER 42 THAT SUBSEQUENTLY HAVE BEEN SO SERIOUSLY DEGRADED AS TO BE INELIGIBLE FOR LISTING IN THE RECOMMENDED PLAN

Site Name	Location	Proposed Classification Code	Critical Plant Species Formerly Present
CTH C Low Prairie (3 acres) (Field investigations in 2009 revealed that, despite severe degradation of the prairie habitat, both <i>Cacalia tuberosa</i> and <i>Parthenium integrifolium</i> were still present on the site in small numbers; the site will be added to the Regional inventory as a Critical Species Habitat Area)	Kenosha County T1N R21E Section 13 Village of Pleasant Prairie	NA-3	<i>Cacalia tuberosa</i> (T) <i>Parthenium integrifolium</i> (T) <i>Ranunculus cymbalaria</i> (T)
CTH KD Dry Prairie (1 acre) (This potential site has been so degraded that it no longer provides habitat for the critical species historically identified)	Kenosha County T1N R19E Sections 10, 15 Town of Randall	CSH	<i>Asclepias lanuginosa</i> (T) <i>Asclepias sullivantii</i> (T)

Source: SEWRPC.

PLAN COSTS

In order to estimate costs associated with acquiring sites recommended to be preserved and protected under the foregoing plan recommendations, the Wisconsin Department of Natural Resources (WDNR) Facilities and Land Property Program staff for the Southeast Region was consulted. The Department provided average per acre land costs for areas that were recently purchased in the Region. These costs were divided into upland and wetland cover types. Because zoning greatly affects property values, and the majority of the proposed natural areas are located within the primary environmental corridor, it was assumed that the land was zoned as Conservancy land. Adjustments were made for Milwaukee, Washington, and Waukesha Counties to account for higher land prices. Land values for lakeshore property were also determined separately since the values of these properties are significantly higher. WDNR provided average per frontage foot values for inland lakes, and adjustments were made for the Lake Michigan shoreline by compiling average sale prices for vacant lots obtained online. For the purposes of estimating costs for Natural Areas that contain lakeshore, it was assumed that each one acre lake lot contained 100 frontage feet of lakeshore. However, caution should be taken when interpreting these cost estimates since each parcel is unique and land values are site-specific. The selected unit values are set forth in Table 64 and were used to generate the land acquisition cost estimates reported below. All such cost estimates are expressed in constant 2008 dollars.

Table 46

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND
MANAGEMENT BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES**

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-1 Natural Areas	Kenosha	City of Kenosha	Kenosha Sand Dunes and Low Prairie	86	13	99	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
		Village of Pleasant Prairie	Carol Beach Low Prairie and Panne State Natural Area	33	10	43	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
		Town of Salem	Peat Lake State Natural Area	136	4	140	Represents expansion of an existing State project
	Ozaukee	Town of Saukville	Cedarburg Bog State Natural Area	1,626	437	2,063	Site lies within the established project boundary for the Cedarburg Bog Scientific Area
	Racine	Village of Rochester	Cherry Lake Sedge Meadow State Natural Area	163	27	190	Site lies within the established project boundary for the Honey Creek Wildlife Area
		Town of Waterford	Tichigan Fen, Springs, and Woods	108	23	131	Site lies within the established project boundary for the Tichigan Wildlife Area
	Walworth	Town of Eagle Town of Troy	Lulu Lake and Eagle Spring Lake Wetland Complex and Adjacent Uplands	742	329	1,071	Site lies within the established project boundary for the Lulu Lake State Natural Area. About 791 acres of this site lie within Walworth County and about 179 acres lie within Waukesha County
		Town of East Troy	Beulah Bog State Natural Area	58	14	72	Represents expansion of an existing State project
		Town of LaGrange Town of Whitewater	Bluff Creek Woods	352	19	371	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
		Town of LaGrange	Young Prairie State Natural Area	69	0	69	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest. An additional nine acres of this site extend into Jefferson County
		Town of Whitewater	Bluff Creek Fens	79	0	79	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Clover Valley Fen State Natural Area	93	19	112	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
		Washington	Town of Addison	Aurora Road Fen	0	22	22
	Town of Barton		Smith Lake Fen and Swamp	85	85	170	Recommendation from PR-42
	Town of Jackson		Jackson Swamp	1,221	350	1,571	Site lies within the established project boundary for the Jackson Marsh Wildlife Area
	Town of Kewaskum		Kewaskum Maple—Oak Woods State Natural Area	46	40	86	Site lies within the established project boundary for the Northern Unit of the Kettle Moraine State Forest
			Milwaukee River Floodplain Forest State Natural Area	130	5	135	Site lies within the established project boundary for the Northern Unit of the Kettle Moraine State Forest
Town of West Bend	Paradise Lake Fen		11	11	22	Acquisition recommended in County park plan	

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-1 Natural Areas (continued)	Waukesha	Town of Eagle	Scuppernong Prairie State Natural Area	685	28	713	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Kettle Moraine Fen and Low Prairie State Natural Area	150	0	150	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
		Town of Eagle Town of Mukwonago	Upper Mukwonago River	189	26	215	Represents expansion of an existing State project
		Town of Genesee	Genesee Oak Opening and Yatzeck's Fen State Natural Area	41	55	96	Represents expansion of an existing State project
		Town of Mukwonago	Mukwonago Fen, Sedge Meadow, and Tamarack Relict	38	204	242	Represents expansion of an existing State project
		Town of Ottawa	Ottawa Lake Fen State Natural Area	26	0	26	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
		Subtotal	24 sites	6,167	1,721	7,888	--
NA-2 Natural Areas	Kenosha	Village of Pleasant Prairie	104 th Street Mesic Prairie	8	2	10	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
			Carol Beach Prairie	50	21	71	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
			Barnes Creek Dunes and Panne	9	4	13	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
			First Avenue Prairie	12	0	12	Existing State ownership
			Tobin Road Prairie	19	5	24	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
		Town of Randall	Elizabeth Lake Lowlands	0	48	48	Acquisition recommended in County park plan
		Town of Salem	Camp Lake Marsh	116	176	292	Acquisition recommended in County park plan
		Town of Wheatland	New Munster Shrub-Carr and Tamarack Relict	289	95	384	Acquisition recommended in County park plan
	Ozaukee	Town of Belgium	Harrington Beach Lacustrine Forest	197	0	197	Existing State ownership (Harrington Beach State Park)
	Racine	Town of Burlington	Karcher Springs State Natural Area	19	0	19	Existing State ownership
			Leda Lake Fen-Meadow	123	97	222	Represents expansion of an existing State project
		Town of Norway	Wind Lake Tamarack Swamp	230	104	334	Represents expansion of an existing State project
		Village of Rochester	Brock Lake Fen	68	163	231	Site lies within the established project boundary for the Honey Creek Wildlife Area
		Town of Waterford	Tichigan Marsh	313	153	466	Site lies within the established project boundary for the Tichigan Wildlife Area
			Tichigan Wetlands and Low Woods	154	16	170	Site lies within the established project boundary for the Tichigan Wildlife Area
	Walworth	Town of Delavan	Comus Lake Wetland Complex	10	282	292	Acquisition recommended in County park plan

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-2 Natural Areas (continued)	Walworth (continued)	Town of LaGrange	Kestol Dry Prairie	1	0	1	Existing State ownership (Kettle Moraine State Forest)
			LaGrange Oak Woods	755	13	768	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Muir Oak Woods and Duffin Road Fen	622	43	665	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
		Town of Lyons	Lake Ivanhoe Fen and Sedge Meadow	58	37	95	Represents expansion of an existing State project
		Town of Spring Prairie Town of Burlington	Honey Lake Marsh and Sedge Meadow	132	259	391	Represents expansion of an existing State project
		Town of Whitewater	Bluff Creek Prairie	21	0	21	Existing State ownership
	Washington	Town of Erin	Loew Lake Wetland Complex	280	201	481	Site lies within the established project boundary for the Loew Lake Unit of the Kettle Moraine State Forest
			Holy Hill Woods	50	209	259	New recommendation
		Town of Erin Town of Richfield	Friess Lake Tamarack Swamp	0	228	228	Site lies within the established project boundary for the Loew Lake Unit of the Kettle Moraine State Forest
		Town of Hartford	Pike Lake Woods	280	0	280	Existing State ownership
		Town of Kewaskum	Kettle Moraine Drive Bog	29	10	39	Site lies within the established project boundary for the Northern Unit of the Kettle Moraine State Forest
			Glacial Trail Forest	211	11	222	Site lies within the established project boundary for the Northern Unit of the Kettle Moraine State Forest
			St. Michaels's Woods	83	3	86	Site lies within the established project boundary for the Northern Unit of the Kettle Moraine State Forest
	Town of West Bend	Hacker Road Bog	25	0	25	Existing State ownership	
	Waukesha	Town of Eagle	Eagle Woods and Dry Prairies	588	0	588	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Ulrickson Road Cedar Glade	32	0	32	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Eagle Shrub-Fen	65	4	69	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Beaver Dam Lake	96	22	118	Represents expansion of an existing State project
			Kettle Moraine Limestone Outcrop	4	0	4	Existing State ownership (Kettle Moraine State Forest)
			Eagle Railroad Prairie	19	0	19	Existing State ownership (Kettle Moraine State Forest)
Eagle Dry Prairie and Grotjans's Fen			52	8	60	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest	
Fur Farm Pond			69	0	69	Existing State ownership (Kettle Moraine State Forest)	

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-2 Natural Areas (continued)	Waukesha (continued)	Town of Eagle Town of Ottawa	Eagle Fen and Spring	185	5	190	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Ottawa Oak Woods and Dry Prairies	965	31	996	Existing State ownership (Kettle Moraine State Forest)
		Town of Mukwonago	Vernon Tamarack-Fen	18	0	18	Existing State ownership (Vernon Marsh Wildlife Area)
			Vernon Prairie-Fen	36	3	39	Site lies within the established project boundary for the Vernon Marsh Wildlife Area
			Vernon Fen	10	0	10	Existing State ownership (Vernon Marsh Wildlife Area)
		Subtotal	43 sites	6,303	2,253	8,556	- -
		NA-3 Natural Areas	Kenosha	Town of Brighton	Bong Low Prairie	2	0
Town of Salem	Hooker Lake Marsh			44	3	47	Represents expansion of an existing State project
Ozaukee	Town of Cedarburg Town of Saukville Town of Trenton		Cedar-Sauk Low Woods	36	188	224	New recommendation
	Town of Fredonia		Department of Natural Resources Lowlands	46	141	187	Represents expansion of an existing State project
Racine	Town of Dover		Dover Wildlife Area Wetlands	48	1	49	Site lies within the established project boundary for the Dover Wildlife Area
			Church Road Lowlands	22	2	24	Represents expansion of an existing State project
			Eagle Lake Wetlands	16	30	46	Represents expansion of an existing State project
	Town of Waterford		Tichigan Wet Prairie	16	0	16	Existing State ownership (Tichigan Wildlife Area)
Walworth	Town of Bloomfield		Lake Ivanhoe Sedge Meadow	143	7	150	Represents expansion of an existing State project
			Bloomfield Sedge Meadow and Tamarack relict	129	42	171	Represents expansion of an existing State project
			Pell Lake Railroad Prairie	0	9	9	Represents expansion of an existing State project
	Town of Darien		Turtle Creek Sedge Meadow and Fen	136	35	171	Site lies within the established project boundary for the Turtle Creek Wildlife Area
			Creek Road Fen	9	0	9	Existing State ownership (Turtle Creek Wildlife Area)
	Town of Delavan Town of Sugar Creek		CTH P Sedge Meadow	0	18	18	Site is included in a Geological Area recommended to be acquired by the Department of Natural Resources
	Town of East Troy		East Troy Tamaracks	26	0	26	Existing State ownership
	Town of Geneva		Warbler Trail Wetlands	105	19	124	Represents expansion of an existing State project
	Town of LaGrange		Skoponong (Duffin Road) Prairie	8	0	8	Existing State ownership (Kettle Moraine State Forest)
			Connelly Fen	0	2	2	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
Nordic Trail Oak Woods			287	206	493	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest	

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments	
				Already Under Protective Ownership	Proposed to be Acquired	Total		
NA-3 Natural Areas (continued)	Walworth (continued)	Town of Richmond	Turtle Lake Fen	21	0	21	Existing State ownership	
		Town of Sharon	CTH C Lowland	60	0	60	Existing State ownership	
		Town of Troy	Troy Fen	12	3	15	Represents expansion of an existing State project	
			Honey Creek Fen	0	8	8	Acquisition recommended in County park plan	
		Town of Whitewater	Lone Tree Trail Oak Woods	204	61	265	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest	
			Whitewater Oak Woods	187	53	240	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest	
	Rice Lake Dry Prairie		1	0	1	Existing State ownership (Kettle Moraine State Forest)		
	Washington	Town of Addison	Allenton Swamp	845	247	1,090	Site lies within the established project boundary for the Allenton Wildlife Area	
		Town of Barton	Lange Hardwoods	0	53	53	Acquisition recommended in County park plan	
		Town of Erin	Donegal Road Woods	29	111	140	Site lies within the established project boundary for the Loew Lake Unit of the Kettle Moraine State Forest	
			St. Augustine Road Sedge Meadow	0	10	10	Site lies within the established project boundary for the Loew Lake Unit of the Kettle Moraine State Forest	
		Town of Hartford	Pike Lake Sedge Meadow	41	3	44	Site lies within the established project boundary for Pike Lake State Forest	
			Pike Lake Wetlands—South	37	0	37	Existing State ownership (Pike Lake State Forest)	
		Town of Kewaskum	Kettle Moraine Drive Woods	323	0	323	Existing State ownership (Kettle Moraine State Forest). An additional 30 acres of this site extend into Fond du Lac County	
		Town of Polk	Slinger Upland Woods	117	55	172	Acquisition recommended in County park plan	
		Town of Wayne	Theresa Swamp	887	65	952	Site lies within the established project boundary for the Theresa Marsh Wildlife Area	
			Wayne Creek Swamp	0	181	181	Site is adjacent to the established project boundary for the Allenton Marsh Wildlife Area	
			Rock River Marsh	199	140	339	Site lies within the established project boundary for the Allenton Marsh Wildlife Area	
		Town of West Bend	Ziegler Woods	0	172	172	Acquisition recommended in County park plan	
		Waukesha	Town of Delafield	Lapham Peak Woods	386	100	486	Represents expansion of an existing State project
			Town of Eagle	Paradise Creek Prairie	101	0	101	Existing State ownership (Kettle Moraine State Forest)
Paradise Springs Woods	58			43	101	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest		

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-3 Natural Areas (continued)	Waukesha (continued)	Town of Eagle (continued)	STH 59 Oak Woods and Prairies	209	9	218	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Stute Springs	19	0	19	Existing State ownership (Kettle Moraine State Forest)
		Town of Eagle Town of Troy	Eagle Spring Lake Bog, Woods, and Prairie	66	0	66	Existing State ownership
		Town of Mukwonago Town of East Troy	Rainbow Springs Woods, Wetlands, and Prairies	468	215	683	New recommendation
		Town of Oconomowoc	Raasch Tamarack Swamp	17	79	96	Represents expansion of an existing State project
			Oconomowoc River Marsh	65	34	99	Represents expansion of an existing State project
		Town of Ottawa	Ottawa Lake Prairie	12	0	12	Existing State ownership
			Pretty Lake Tamarack Relict	0	84	84	New recommendation
			Scuppernong Springs Dry Prairie and Xeric Woods	46	0	46	Existing State ownership (Kettle Moraine State Forest)
		Town of Vernon	Vernon Marsh Low Woods	24	0	24	Existing State ownership (Vernon Marsh Wildlife Area)
		Town of Vernon Town of Waukesha	Fox River Woods	351	60	411	Site lies within the established project boundary for the Vernon Marsh Wildlife Area
		Town of Waukesha	Vernon Wet-Mesic Prairie	16	0	16	Existing State ownership (Vernon Marsh Wildlife Area)
		Subtotal	53 sites	5,874	2,489	8,363	--
All Natural Areas Subtotal	120 sites	18,344	6,463	24,807	--		
Critical Species Habitat Sites	Kenosha	Village of Peasant Prairie	Pleasant Prairie PCA Number 8	0	1	1	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
			Carol Beach Parcel Number 2	0	2	2	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
			Carol Beach Oak Woods	0	3	3	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area
		Town of Brighton	Bong State Recreation Area	4,775	246	5,021	Represents an expansion of an existing State project (Bong State Recreation Area)
	Ozaukee	Town of Belgium	Harrington Beach State Park Old Fields	395	0	395	Existing State ownership
	Racine	Town of Burlington	Karcher Sedge-Carr	249	0	249	Site lies within an established project boundary for the Karcher Marsh Wildlife Area
	Walworth	Town of LaGrange	LaGrange Campground	203	0	203	Existing State ownership (Kettle Moraine State Forest)
			Duffin Road Dry Prairie	1	0	1	Existing State ownership (Kettle Moraine State Forest)
			Emerson Esker Prairie	1	0	1	Existing State ownership (Kettle Moraine State Forest)
			Middle Lake Sedge Mat	3	0	3	Existing State ownership
		Town of Richmond	Island Road Shrub-Carr	0	64	64	Site lies within a Geological Area (Turtle Creek Spillway) to be acquired by the State
		Town of Richmond Town of Sugar Creek	Turtle Valley Wildlife Area	2,042	0	2,042	Existing State ownership (Turtle Valley Wildlife Area)
	Town of Sharon	Railroad Lowland	64	0	64	Represents an expansion of an existing State project	

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
Critical Species Habitat Sites (continued)	Walworth (continued)	Town of Troy	Horn Dry Prairies	0	5	5	New recommendation
		Town of Whitewater	Whitewater Lake Island Woods	3	0	0	Existing State ownership
	Washington	Town of Polk	Cedar Creek Fen	4	0	4	Existing State ownership
	Waukesha	Town of Eagle	Headquarters Grassland	28	0	28	Existing State ownership (Kettle Moraine State Forest)
			Kettle Moraine Recovering Prairie	17	0	17	Existing State ownership (Kettle Moraine State Forest)
		Town of Genesee	Borrow Pit Prairie	3	0	3	Existing State ownership
		Town of Mukwonago	Greenwald Woods	55	3	58	Site lies within the established project boundary for the Vernon Marsh Wildlife Area
		Town of Ottawa	Dog Trial Area	181	0	181	Existing State ownership (Kettle Moraine State Forest)
			Ottawa Lake Dry Woods	13	0	13	Existing State ownership
			PEL 1134 Oak Opening	141	0	141	Existing State ownership (Kettle Moraine State Forest)
			Unnamed Shrub-Grassland	349	0	349	Existing State ownership (Kettle Moraine State Forest)
		Town of Vernon Town of Mukwonago	Vernon Marsh	3,449	707	4,156	Site lies within the established project boundary for the Vernon Marsh Wildlife Area
	Subtotal	25 sites	11,976	1,031	13,007	--	
Grasslands	Kenosha	Town of Brighton	Bong State Recreation Area	-- (4,775)	5,000	5,000 (10,000)	The ultimate goal is to create a grassland of approximately 10,000 acres. Site is also listed as a Critical Species Habitat Area (see above)
		Walworth	Town of Bloomfield Town of Linn	Hack-ma-tack Wildlife Refuge	0	5,000	5,000
		Town of Troy	Lulu Lake—Pickerel Lake	265	1,265	1,530	About 370 acres of this site are within the established project boundary for the Lulu Lake State Natural Area
	Waukesha	Town of Eagle	Scuppernong	929 (1,532)	562 (583)	1,491 (2,115)	Entire site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
	--	Subtotal	4 sites	1,194	11,827	13,021	--
Forest Interiors	Kenosha	Town of Wheatland	New Munster Forest Restoration Site	683	0	683	Existing State ownership
	Ozaukee	Town of Belgium	Harrington Beach State Park Old Fields	-- (400)	-- --	-- (400)	Existing State ownership (Harrington Beach State Park)
	Racine	Village of Rochester	Oak Knoll Woods	40	122	162	Recommendation in PR-42; site is partially within existing State ownership and is adjacent to the established project boundary for the Honey Creek Wildlife Area
	Washington	Town of Addison	St. Anthony Maple Woods	-- --	70 (160)	70 (160)	Site contains a Critical Species Habitat site encompassing 90 acres
	--	Subtotal	4 sites	723	192	915	--
Geological Areas	Kenosha	City of Kenosha	Kenosha Dunes and Buried Forest	-- (86)	-- (13)	-- (99)	Site lies within the established project boundary for the Chiwaukee Prairie-Carol Beach Area, and is within a Natural Area of statewide or greater significance
		Ozaukee	City of Mequon	Ozaukee Buried Forest	--	32	32
		Town of Belgium	Harrington Beach State Park Quarry	-- (25)	-- --	-- (25)	Existing State ownership (Harrington Beach State Park); site lies within a Critical Species Habitat site

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
Geological Areas (continued)	Walworth	Town of LaGrange	Nordic Trail Kettle Holes	-- (22)	-- (10)	-- (32)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest and is located within a Natural Area of local significance
			Spirits Wash Bowl	-- (1)	-- --	-- (1)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest and is located within a Natural Area of countywide or regional significance
			John Muir Trail Kettle Holes	-- (28)	-- --	-- (28)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest and is located within a Natural Area of countywide or regional significance
		Town of LaGrange Town of Whitewater	Kettle Moraine Interlobate Moraine	2,465 (5,635)	1,503 --	3,968 (7,138)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest; site contains four NA-1, two NA-2, and four NA-3 sites and one Critical Species Habitat site, for a total of 3,170 acres within such sites
		Town of Darien Town of Richmond	Turtle Creek Glacial Spillway	830 (830)	1,337 (1,710)	2,167 (2,540)	Portions of this site either lie within the established project boundary for the Turtle Creek Wildlife Area or are in existing State ownership, or both. Site contains one NA-2, one NA-3, and one Critical Species Habitat site
		Town of Troy	Lulu Lake Glacial Lake and Crevasse Filling	-- (103)	-- --	-- (103)	Site lies within the established project boundary for the Lulu Lake State Natural Area and is located within a Natural Area of statewide or greater significance
	Town of Whitewater	Whitewater Lake—Rice Lake Eskers	-- (113)	-- (62)	-- (175)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest	
	Washington	Town of Richfield	Friess Lake Hogsback Crevasse Filling	-- --	-- (25)	-- (25)	Site lies within the established project boundary for the Loew Lake Unit of the Kettle Moraine State Forest and is located within a Natural Area of countywide or regional significance
		Town of Erin Town of Kewaskum Village of Richfield	Kettle Moraine Interlobate Moraine	1,055 (2,701)	2,876 --	3,931 (5,577)	Site lies within the established project boundary for the Kettle Moraine State Forest and contains two NA-1, five NA-2, and three NA-3 sites, for a total of 1,646 acres within such sites
	Waukesha	City of Delafield Town of Delafield Town of Eagle Town of Ottawa	Kettle Moraine Interlobate Moraine	10,739 (14,587)	1,127 --	11,866 (15,714)	Site lies within the established project boundary for the Kettle Moraine State Forest. The site contains three NA-1, nine NA-2, and four NA-3, and seven Critical Species habitat sites for a total of 3,848 acres within such sites
		Town of Eagle	Brady's Rock	-- (171)	-- (2)	-- (19)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
		Town of Eagle	Eagle Esker	-- (20)	-- (11)	-- (31)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest

Table 46 (continued)

Type of Area	County	Civil Divisions (s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
Geological Areas (continued)	Waukesha (continued)	Town of Eagle (continued)	Stark Road Quarry	-- (3)	-- --	-- (3)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest
			Scuppernong Glacial Lake	-- (2,178)	-- (2,925)	-- (5,103)	A portion of this site, 4,552 acres, or 58 percent, is within the established project boundary of the Southern Unit of the Kettle Moraine State Forest. of the 3,280 acres outside the project boundary, 551 acres lie within two Natural Areas proposed to be acquired for protective ownership or are in existing State ownership
			Scuppernong Pitted Outwash	-- (2,178)	-- (2,702)	-- (4,880)	Site lies within the established project boundary for the Southern Unit of the Kettle Moraine State Forest, and lies within the Scuppernong Glacial Lake Geological Area
			Eagle Kettle Hole	-- (13)	-- --	-- (13)	This site is within the Southern unit of the Kettle Moraine State Forest and owned by the Department of Natural Resources
--	--	Subtotal	19 sites	15,089	6,875	21,964	--
--	--	Total	172 sites	47,326	26,388	73,714	--

Source: SEWRPC.

Based upon the unit cost values and the areal extent of the sites recommended to be acquired, Table 65 presents a summary of the estimated land acquisition costs associated with implementation of the plan recommendations. These estimates are summarized by land acquisition category—Natural Area sites of statewide or greater significance, Natural Area sites of other significance, Critical Species Habitat sites, grassland and forest interior sites, and Geological Area sites—and by party recommended to be responsible for land acquisition—State government, county government, local government, and private conservancy organizations.

The total cost of implementing the recommended plan, assuming that all recommended parcels are acquired in fee simple, is estimated at \$693.9 million. Of this total, about \$72.6 million, or 10 percent, would be required to complete acquisition of those Natural Area sites of statewide or greater significance; \$263.4 million, or 38 percent, would be required to complete acquisition of Natural Area sites of countywide and local significance; \$151.2 million, or 22 percent, would be required to acquire Critical Species Habitat sites; \$125.5 million, or 18 percent, would be required to acquire the recommended grassland and forest interior sites; and the remaining \$81.2 million, or 12 percent, would be required to complete acquisition of the Geological Area sites.

State government would be responsible for land acquisitions totaling about \$356.2 million, representing about 51 percent of the total plan costs. Of the \$356.2 million, about \$250.4 million, or 70 percent, represents land acquisition recommendations made in prior State, regional, or county plans. The remaining \$105.8 million, or 30 percent, represents newly made land acquisition recommendations under this plan.

Table 47

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY KENOSHA COUNTY

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-2 Natural Areas	Town of Brighton	Friendship Lake Marsh	11	108	119	Recommendation in PR-42
		CTH NN Sedge Meadow	0	60	60	Recommendation in PR-42
		Schroeder Road Marsh	--	111	111	Recommendation in PR-42. An additional 77 acres of this site are located in Racine County
	Town of Brighton Town of Paris	Harris Marsh and Oak Woods	224	13	237	Acquisition recommended in Des Plaines River watershed plan
	Town of Bristol	Merkt Woods	0	83	83	Recommendation in PR-42
		Bristol Woods	154	27	181	Expansion of existing County ownership to include entire site
		Mud Lake Sedge Meadow	0	55	55	Recommendation in PR-42
	Town of Somers	Petrifying Springs Woods	165	32	197	Expansion of existing County ownership to include entire site
	Subtotal	8 sites	554	489	1,043	--
NA-3 Natural Areas	Town of Bristol	Des Plaines River Wetlands	0	66	66	Acquisition recommended in Des Plaines River watershed plan
	Town of Somers	Pike River Bottomland Woods	15	50	65	Acquisition recommended in Kenosha Urban Planning District plan
		Subtotal	2 sites	15	116	131
--	Subtotal— All Natural Areas	10 sites				--
Critical Species Habitat Sites	City of Kenosha	Kenosha Bike Trail Prairie	3	0	3	Existing County ownership
	Town of Brighton	Brighton-Dale Woods	54	0	54	Existing County ownership
	Town of Salem	Fox River Park Low Woods and Sedge Meadow	1	43	44	New recommendation
		Fox River Park Woods	10	0	10	Existing County ownership
	Subtotal	4 sites	68	43	111	--
--	Total	14 sites	637	648	1,285	--

Source: SEWRPC.

County government would be responsible for land acquisitions totaling about \$100.2 million, representing about 14 percent of the total plan costs. Of the \$100.2 million, about \$94.3 million, or 94 percent, represents land acquisitions either lying within county project boundaries already approved by county boards, or represents land acquisition recommendations made in prior regional or county plans. The remaining \$5.9 million, or 6 percent, represents newly made land acquisition recommendations under this plan.

Local government would be responsible for land acquisitions totaling about \$44.4 million, representing about 7 percent of the total plan costs. Of the \$44.4 million, about \$35.9 million, or 81 percent, represents land acquisition recommendations made in prior plans. The remaining \$8.5 million, or 19 percent, represents newly made land acquisition recommendations under this plan.

Private conservancy organizations would be responsible for land acquisitions totaling the remaining \$193.1 million, representing about 28 percent of the total plan costs. Of the \$193.1 million, about \$101.5 million, or about 53 percent, represents land acquisition recommendations made in prior plans. The remaining \$91.6 million, or 47 percent, represents newly made land acquisition recommendations under this plan.

Table 48

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY MILWAUKEE COUNTY

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-2 Natural Areas	City of Cudahy	Warnimont Park Fens	2	0	2	Existing County ownership
	City of Franklin	Root River Canal Woods	111	10	121	Represents an expansion of an existing County project. An additional 158 acres of this site are located in Racine County
		Root River Wet-Mesic Woods—West	166	107	273	Represents an expansion of an existing County project
	City of Greenfield	Greenfield Park Woods	52	0	52	Existing County ownership
	City of Oak Creek	Cudahy Woods	47	0	47	Represents an expansion of an existing County project
		Falk Park Woods	71	7	78	Represents an expansion of an existing County project
		Root River Wet-Mesic Woods—East	52	0	52	Existing County ownership
	City of St. Francis	St. Francis Seminary Woods	0	52	52	Recommended in PR-42
	City of South Milwaukee	Rawson Park Woods	23	0	23	Existing County ownership
	Subtotal	9 sites	524	176	700	--
NA-3 Natural Areas	City of Cudahy	Warnimont Park Woods	47	0	47	Existing County ownership
	City of Franklin	Grobschmidt Park Wetlands and Upland Woods	79	4	83	Acquisition recommended in County park plan
		Root River Bike Trail Woods	108	0	108	Existing County ownership
		Root River Low and Upland Woods	76	0	76	Existing County ownership
		Root River Parkway Woods	64	0	64	Existing County ownership
		Bike Trail Marsh	3	0	3	Existing County ownership
		Monastery Lake Wetlands	0	48	48	Acquisition recommended in County park plan
		Root River Parkway Prairie	51	0	51	Existing County ownership
		60 th Street Woods	11	0	11	Existing County ownership
		Franklin Oak Woods and Oak Savanna	79	0	79	Existing County ownership
	City of Franklin Village of Hales Corners	Whitnall Park Woods—South	144	1	145	Acquisition recommended in County park plan
	City of Glendale	Kletzsch Park Woods	13	0	13	Existing County ownership
	City of Milwaukee	Brown Deer Park Woods	43	0	43	Existing County ownership
		Haskell Noyes Park Woods	20	0	20	Existing County ownership
		Harbinger Woods	34	0	34	Existing County ownership. An additional 13 acres of this site are located in the Village of Menomonee Falls in Waukesha County
		McGovern Park Woods	14	0	14	Existing County ownership
		Menomonee River Swamp—North	59	15	74	Represents an expansion of an existing County project. An additional four acres of this site are located in Waukesha County
		Mitchell's Woods	37	0	37	Existing County ownership
	City of Oak Creek	Esch-Honadel Woods	0	64	64	Acquisition recommended in County park plan
		Oak Creek Low Woods	31	37	68	Represents an expansion of an existing County project
		Oak Creek Parkway Woods	24	0	24	Existing County ownership
Root River Riverine Forest		140	0	140	Acquisition recommended in County park plan. An additional 184 acres of this site are located in Racine County	

Table 48 (continued)

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-3 Natural Areas (continued)	City of Oak Creek (continued)	Ryan Road Woods	19	23	42	Represents an expansion of an existing County project
	City of South Milwaukee	Grant Park Woods—South	45	0	45	Existing County ownership
		Grant Park Woods—Old Growth	42	0	42	Existing County ownership
	City of Wauwatosa	Menomonee River Swamp—South	99	0	99	Existing County ownership
		Currie Park Low Woods	27	0	27	Existing County ownership
		Wil-O-Way Woods	41	0	41	Existing County ownership
		Jacobus Park Woods	11	0	11	Existing County ownership
	Village of Hales Corners	Blue Mound Country Club Woods	4	13	17	Represents an expansion of an existing County project
		Whitnall Park Woods—North	82	0	82	Existing County ownership
	Subtotal	31 sites	1,447	205	1,652	--
--	Subtotal—All Natural Areas	40 sites	1,971	381	2,352	--
Critical Species Habitat Sites	City of Cudahy	Cudahy Park Woods	4	0	4	Existing County ownership
		Greene Park Woods	7	0	7	Existing County ownership
	City of Greenfield	Holt Park Woods	8	0	8	Existing County ownership
	City of Milwaukee	Cambridge Avenue Woods	17	0	17	Existing County ownership
		Doyne Park Woodland	4	0	4	Existing County ownership
		Hawthorn Glen	16	0	16	Existing County ownership
		Lake Park Woods	46	0	46	Existing County ownership
		Lyons Park Woods	6	0	6	Existing County ownership
	City of Oak Creek	Bender Clay Banks and Ravine—South	2	0	2	Existing County ownership
		Bender Park Stream and Meadow	2	0	2	Existing County ownership
		Bender Park Woods—North	11	0	11	Existing County ownership
		Bender Park Woods—South	5	0	5	Existing County ownership
		Camelot Park Woods	15	0	15	Existing County ownership
		Oak Creek Bluffs and Beach—North	4	0	4	Existing County ownership
		Oak Creek Bluffs and Beach—South	24	0	24	Existing County ownership
	Ryan Road Upland Woods—East	4	0	4	Existing County ownership	
	City of South Milwaukee	Oak Creek Parkway/Bike Trail Woods	2	0	2	Existing County ownership
	City of Wauwatosa	County Grounds Woods	10	0	10	Existing County ownership
		Hart Park/Psychiatric Hospital Woods	41	0	41	Existing County ownership
		Harwood Avenue Woods	46	0	46	Existing County ownership
		Menomonee River PCA No.10	3	0	3	Existing County ownership
	Underwood Parkway Woods		16	0	16	Existing County ownership
City of West Allis	Honey Creek Parkway Woods	5	0	5	Existing County ownership	
Village of Greendale	Grange Avenue Woods	14	0	14	Existing County ownership	
	Scout Lake Park Woods	43	0	43	Existing County ownership	
	Subtotal	25 sites	355	0	355	--
Geological Areas	City of Cudahy	Warnimont Park Clay Banks	18 (23)	--	18 (23)	Existing County ownership
	City of Franklin	Root River Outcrops	18	--	18	Existing County ownership
	City of Glendale Village of Shorewood	Estabrook Park—Lincoln Park	40	--	40	Existing County ownership
	City of Milwaukee	McGovern Park	1	--	1	Existing County ownership
		Mill Road Reef	5	--	5	Existing County ownership
		Lincoln Creek	11	--	11	Existing County ownership
	City of Milwaukee City of Wauwatosa	Menomonee River Outcrops	6	--	6	Existing County ownership
	Subtotal	7 sites	99	--	99	--
--	Total	72 sites	2,425	381	2,806	--

Source: SEWRPC.

Table 49

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY OZAUKEE COUNTY

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-2 Natural Areas	City of Mequon	Pigeon Creek Low and Mesic Woods	0	82	82	Acquisition recommended in County park plan
	Village of Fredonia Town of Saukville Town of Fredonia	Milwaukee River Mesic Woods	122	260	382	Represents an expansion of an existing County project
	Town of Fredonia	Janik's Woods	0	163	163	Acquisition recommended in County park plan
	Town of Saukville	Kinnamon Conifer Swamp	0	391	391	Recommended in PR-42
	Subtotal	4 sites	122	896	1,018	--
NA-3 Natural Areas	City of Mequon	Pigeon Creek Maple Woods	0	13	13	Acquisition recommended in County park plan
	Town of Fredonia	Beekeeper Bog	15	6	21	Represents an expansion of an existing County project
		Waubeka Low Woods	22	140	162	Represents an expansion of an existing County project
	Town of Grafton	Lions Den Gorge	11	10	21	Represents an expansion of an existing County project
	Subtotal	4 sites	48	169	217	--
--	Subtotal—All Natural Areas	8 sites	170	1,065	1,235	--
Critical Species Habitat Sites	City of Mequon	Mee-kwon Park Woods	20	20	40	Represents an expansion of an existing County project
	Subtotal	1site	20	20	40	--
Geological Areas	City of Mequon	Virmond Park Clay banks	10	--	10	Existing County ownership
		Thiensville Roadcut and Quarry	5	4	9	A portion of this site is located within Mee-kwon County Park; the remainder is surrounded by the Pigeon Creek Low and mesic Woods Natural Area recommended to be acquired by the County
	Town of Fredonia	Phyllocariid Quarry	--	4	4	Acquisition recommended in County park plan; site lies within the proposed Milwaukee River Parkway
		Fredonia Quarries	-- (6)	--	-- (6)	The entire site is in existing County ownership and is located within a Natural Area of countywide or regional significance
		Waubeka Quarry	--	2	2	Acquisition recommended in County park plan; site lies within the proposed Milwaukee River Parkway
Subtotal	5 sites	15	10	25	--	
--	Total	14 sites	205	1,095	1,300	--

Source: SEWRPC.

Table 50

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY RACINE COUNTY

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-1 Natural Areas	Town of Dover Town of Yorkville	Kansasville Railroad Prairie	0	28	28	Acquisition recommended in County park plan for a potential trail corridor
	Village of Mt. Pleasant	Sanders Park Hardwoods State Natural Area	56	0	56	Existing County ownership
	Town of Waterford	Elm Island Bog—Island Oak Woods	63	4	67	Acquisition recommended in County park plan
	Subtotal	3 sites	119	32	151	--
NA-2 Natural Areas	Village of Caledonia	Hunts Woods	5	31	36	Acquisition recommended in County park plan
		Cliffside Park Woods and Clay Banks	53	2	55	Acquisition recommended in County park plan
		Root River Wet-Mesic Woods—East	2	0	2	Acquisition recommended in County park plan; site extends into Milwaukee County
	Town of Dover	Rosewood Railroad Prairie	0	25	25	Acquisition recommended in County park plan
		Schroeder Road Marsh	0	77	77	Recommended in PR-42; site extends into Kenosha County
	Town of Norway	Waubeesee Oak Woods and Tamarack Relict	39	148	187	Acquisition recommended in County park plan
		Wind Lake Shrub-Fen	0	21	21	Acquisition recommended in local plan
	Town of Raymond	County Line Riverine Woods	41	100	141	Acquisition recommended in County park plan
		Root River Canal Woods	0	158	158	An additional 121 acres of this site are located in Milwaukee County
	Town of Waterford	Norris Marsh and Slough	0	209	209	Acquisition recommended in County park plan; site extends into Waukesha County
	Town of Yorkville	Union Grove Railroad Prairie	0	44	44	Acquisition recommended in County park plan
Subtotal	11 sites	140	815	955	--	
NA-3 Natural Areas	Town of Burlington	Honey Lake Leatherleaf Bog	0	63	63	Acquisition recommended in County park plan
		Fox River Riverine Forest	19	112	131	Acquisition recommended in County park plan
		Burlington Railroad Prairie	0	6	6	Recommended in PR-42; site extends into Walworth County
	Village of Caledonia	Caledonia Low Woods	61	46	107	Acquisition recommended in County park plan
		Root River Riverine Forest	183	1	184	An additional 140 acres of this site are located in Milwaukee County
	Village of Mt. Pleasant	Sylvania Railroad Prairie	0	11	11	Acquisition recommended in County park plan
	Village of Rochester	Wadewitz Woods	79	125	204	Acquisition recommended in County park plan
		Fox River Prairie	0	2	2	Acquisition recommended in County park plan
	Town of Waterford	Van Valin Woods	0	26	26	Acquisition recommended in County park plan
		Norris Oak Woods and Wetlands	0	6	6	Acquisition recommended in County park plan; site extends into Waukesha County
	Town of Yorkville	Ives Grove Woods	54	86	140	Acquisition recommended in County park plan
Subtotal	11 sites	396	484	880	--	
--	Subtotal—All Natural Areas	25 sites	655	1,331	1,986	--

Table 50 (continued)

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
Critical Species Habitat Sites	City of Racine	Pritchard Park Woods	10	0	10	Existing County ownership
	Village of Caledonia	River Meadow Woods	0	14	14	Acquisition recommended in County park plan
		Forked Aster Site	0	18	18	Acquisition recommended in County park plan
		Root River Bluff	18	32	50	Acquisition recommended in County park plan
		Four Mile Road Woods	0	31	31	Acquisition recommended in County park plan
		Caledonia Low Woods—South	20	10	30	Acquisition recommended in County park plan
		Cliffside Park Old Field	55	0	55	Fifty-five acres of this site are located within Cliffside Park Woods and Clay Banks Natural Area
		River Bend Upland Woods	14	0	14	Existing County ownership
		Root River Strip Woods	2	0	2	Existing County ownership
	Town of Burlington	Margis Wildlife Area	36	0	36	Existing County ownership
	Town of Norway	Patzke Fen	0	33	33	Acquisition recommended in local plan
	Village of Rochester	Case-Eagle Park	111	0	111	Existing County ownership
	Subtotal	12 sites	266	138	404	--
Geological Areas	Village of Caledonia	Cliffside Park Clay Banks	-- (20)	--	-- (20)	Site lies within an existing County park and a Natural Area of countywide or regional significance
		Root River Outcrops	-- (20)	--	-- (20)	Site lies within an existing County parkway and a Critical Species Habitat site
	Village of Mt. Pleasant	Horlickville Bluffs and Quarries	23	7	30	Existing County ownership for 23 acres of this site. It is recommended that a conservation easement be acquired over the remaining seven acres
		Subtotal	3 sites	23	7	30
--	Total	40 sites	944	1,476	2,420	--

Source: SEWRPC.

Of the total plan implementation costs of \$693.9 million, then, about \$482.1 million, or 69 percent, may be attributed to the land acquisition costs associated with recommendations that have been made in prior State, regional, county, and local plans and do not, therefore, represent proposed new expenditures. The remaining \$211.8 million, or 31 percent, may be classified as proposed new expenditures derived from the recommendations set forth in this plan update.

The recommended natural areas and critical species habitat protection and management plan does not have a design year. If it were assumed, however, that the plan were to be implemented over a 20-year period, the average annual cost of plan implementation in terms of land acquisition, expressed in constant 2008 dollars, would approximate \$34.7 million. This represents an annual regional per capita cost of \$17.36.

FUTURE UPDATES TO THE NATURAL AREAS PLAN

The Commission currently attempts to update its regional plans on a 10-year basis. Such updates are dependent upon funding. However, due to the dynamic processes involved in natural areas and critical species management, the Commission may consider periodic updates to the plan through updates to county park and open space plans as appropriate. These latter plan updates are typically conducted every five years.

Table 51

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY WALWORTH COUNTY

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-2 Natural Areas	Town of Darien	Voskuil Dry Prairie	0	7	7	New recommendation
	Town of Delavan	Delavan Prairie-Fen	0	137	137	Recommended in PR-42
	Town of East Troy	Thiede Road Tamarack Swamp	8	40	48	Recommended in PR-42
	Town of Spring Prairie	Spring Prairie Fen	0	34	34	Recommended in PR-42
	Town of Troy	Adams Lake Fen and Marsh	0	65	65	Recommended in PR-42
		Subtotal	5 sites	8	283	291
NA-3 Natural Areas	Town of Darien	Darien Oak Woods	0	308	308	Acquisition recommended in County park plan
	Town of LaFayette	Sugar Creek Fens, Springs, and Sedge Meadow	0	34	34	Acquisition recommended in County park plan
		Sugar Creek Wetlands	0	74	74	Recommended in PR-42. Site is adjacent to Sugar Creek corridor proposed to be acquired in County park plan for trail purposes
	Town of Lyons	Burlington Railroad Prairie	1	0	1	Acquisition of railway right-of-way for trail purposes recommended in regional bicycle-way system plan
		Subtotal	4 sites	1	416	417
--	Subtotal—All Natural Areas	9 sites	9	699	708	--
Critical Species Habitat Sites	Town of LaFayette	Sugar Creek Woods—North	0	230	230	The County park plan recommended that a portion of this site be acquired as part of a new County park
		Sugar Creek Wet Woods	0	34	34	Acquisition recommended in County park plan
		Sugar Creek Woods—South	0	116	116	Acquisition recommended in County park plan
		Abells Corners Fen	0	3	3	Acquisition recommended in County park plan
	Town of Lyons	White River Railroad Prairie	0	12	12	New recommendation. Site is adjacent to County recreation trail
	Town of Richmond	Whitewater Lake Island	1	0	1	Existing County ownership
		Lake No. 10 Open Woods	0	194	194	New recommendation
	Town of Spring Prairie	Hargraves Road Sedge Meadow	0	46	46	Recommended in PR-42. Site is adjacent to Sugar Creek corridor proposed to be acquired in County park plan for trail purposes
		Subtotal	8 sites	1	635	636
Geological Area	Town of Spring Prairie	Sugar Creek Quarry	0	3	3	Acquisition recommended in County park plan; site is within proposed Sugar Creek Parkway
		Subtotal	1 site	0	3	3
--	Total	18 sites	10	1,337	1,347	--

Source: SEWRPC.

Table 52

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY WASHINGTON COUNTY

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments	
			Already Under Protective Ownership	Proposed to be Acquired	Total		
NA-2 Natural Areas	Town of Addison	St. Anthony Beech Woods	0	68	68	Recommended in PR-42	
	Town of Erin	Toland Swamp	0	202	202	Recommended in PR-42	
	Town of Farmington	North Branch Woods	0	180	180	Recommended in PR-42	
	Town of Polk	Big Cedar Lake Bog		0	89	89	Recommended in PR-42
			Mud Lake Upland Woods	0	56	56	Recommended in PR-42
			Mud Lake Meadow	23	36	59	Recommended in PR-42
	Town of Polk Town of West Bend	Mud Lake Swamp	7	179	186	Recommended in PR-42	
	Village of Richfield	Glacial Hills Park Bogs and Upland Woods	49	11	60	Represents an expansion of an existing project	
		Daniel Boone Bogs and Upland Woods	142	0	142	Recommended in PR-42; currently owned by Daniel Boone Conservation Club	
	Town of Trenton	Schoenbeck Woods	0	197	197	Recommended in PR-42	
		Bellin Bog	2	15	17	Recommended in PR-42	
		Reinartz Cedar Swamp	10	111	121	Recommended in PR-42	
		Myra Wetlands	0	69	69	Recommended in PR-42	
	Town of Trenton Town of Farmington	Sandy Knoll Swamp	123	269	392	Represents an expansion of an existing project (Sandy Knoll County Park)	
Town of Wayne Town of Kewaskum	Wayne Swamp	0	1,147	1,147	Recommended in PR-42		
Town of West Bend	Silverbrook Lake Woods	146	256	402	New recommendation		
	Subtotal	16 sites	502	2,885	3,387	--	
NA-3 Natural Areas	City of Hartford	Rubicon Lowlands	4	26	30	Represents an expansion of an existing project (Washington County Golf Course and Family Park)	
	City of West Bend	Silver Creek Marsh	10	17	27	Represents an expansion of an existing project (Ridge Run County Park)	
	Town of Erin	Little Oconomowoc River Woods and Wetlands	20	206	226	Represents an expansion of an existing project	
	Town of Farmington	Lizard Mound Woods	23	6	29	Represents an expansion of an existing project (Lizard Mound County Park)	
	Town of Polk	Heritage Trails Bog	41	53	94	Represents an expansion of an existing project (Heritage Trails County Park)	
	Town of Trenton	Sandy Knoll Wetlands	17	30	47	Represents an expansion of an existing project (Sandy Knoll County Park)	
		Subtotal	6 sites	115	338	453	--
--	Subtotal—All Natural Areas	22 sites	617	3,223	3,840	--	
Geological Area	Town of Trenton	Myra Esker	0	16	16	Recommended in PR-42	
		Subtotal	1 site	0	16	--	
--	Total	23 sites	617	3,239	3,856	--	

Source: SEWRPC.

Table 53

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY WAUKESHA COUNTY

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-1 Natural Areas	City of Muskego	Muskego Park Hardwoods State Natural Area	99	1	100	Represents expansion of an existing County project (Muskego County Park)
	Town of Merton	Monches Woods	212	120	332	Represents expansion of an existing County project (Monches County Park)
	Subtotal	2 sites	311	121	432	--
NA-2 Natural Areas	City of Delafield	Nagawicka Lake Bog and Oak Woods	81	75	156	New recommendation
	Village of Menomonee Falls	Held Maple Woods	0	40	40	Acquisition recommended in County park plan
	Town of Delafield	Pewaukee Lake Access Fen	10	0	10	Existing County ownership
	Town of Mukwonago	Spring Lake Sedge Meadow and Fens	115	109	224	Acquisition recommended in County park plan
		Brown Lake Wetlands, Woods, and Prairies	20	128	148	Acquisition recommended in County park plan
	Town of Oconomowoc	Ashippun River Lowlands	86	162	248	Represents expansion of an existing County project
	Town of Summit	Bark River Marsh	19	163	182	Acquisition recommended in County park plan
		Genesee Lake Road Bog	4	10	14	Acquisition recommended in County park plan
	Town of Vernon	Big Bend Wet-Mesic Woods	360	65	425	Represents expansion of an existing County project
		Norris Marsh and Slough	0	32	32	Acquisition recommended in County park plan; site extends into Racine County
	Town of Waukesha	Fosters Woods	85	3	88	Represents expansion of an existing County project
Falk Fen and Woods		220	90	310	Represents expansion of an existing County project	
--	Subtotal	11 sites	919	802	1,721	--
NA-3 Natural Areas	City of Delafield	Bark River School Sedge Meadow	0	17	17	Acquisition recommended in County park plan
	City of Waukesha Town of Waukesha	Minooka Park Woods	89	0	89	Existing County ownership
	Village of Menomonee Falls	Zuba Woods	11	106	117	Represents expansion of an existing County project
		Menomonee River Swamp—North	0	4	4	Acquisition recommended in County park plan; site extends into Milwaukee County
		Menomonee River Swamp	0	31	31	Acquisition recommended in County park plan
	Village of Menomonee Falls Village of Butler	Clarks Woods	7	16	23	Acquisition recommended in County park plan
	Village of Sussex	Coolings Sedge Meadow	10	3	13	Represents expansion of an existing County project
	Town of Genesee	Brown's Fen	2	0	2	Existing County ownership
	Town of Lisbon	Thousand Oaks Tamarack Relict	2	28	30	Represents expansion of an existing County project
		Lisbon Low Woods	21	240	261	Represents expansion of an existing County project
	Town of Merton	Chenequa Wetland Complex	11	103	114	Acquisition recommended in County park plan
Town of Vernon	River Oaks Woods and Wetlands	58	65	123	Represents expansion of an existing County project (Fox River Parkway)	
	Porter Low Woods	77	168	245	Acquisition recommended in County park plan	

Table 53 (continued)

Type of Area	Civil Division(s)	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-3 Natural Areas (continued)	Town of Vernon (continued)	Norris Oak Woods and Wetlands	0	370	370	Acquisition recommended in County park plan; site extends into Racine County
	Town of Waukesha	Pebble Creek Railroad Prairie	7	0	7	Existing County ownership
	Subtotal	15 sites	295	1,151	1,446	--
--	Subtotal—All Natural Areas	29 sites	1,606	2,149	3,755	--
Critical Species Habitat Sites	City of Brookfield	Steinacker Woods	34	127	161	Represents expansion of an existing County project
	Village of Menomonee Falls	Campground Woods	70	46	116	Represents expansion of an existing County project
		Ranch Woodland	0	4	4	Acquisition recommended in County park plan
		Fox River Woodland	2	32	34	Acquisition recommended in County park plan
		Menomonee River Parkway Woods	7	0	7	Existing County ownership
	Town of Delafield	Jungbluth Road Railroad Prairie	1	1	2	New recommendation
	Town of Genesee	Davies Marlow Grassland	0	62	62	New recommendation
	Town of Merton	Nashotah Park Woods	106	0	106	Existing County ownership
	Town of Mukwonago	Dunlop Dry-Mesic Prairie	9	0	9	Existing County ownership
		Mukwonago Park Oak Opening	83	0	83	Existing County ownership
		Romanowski Fen	0	9	9	Acquisition recommended in County park plan
	Town of Ottawa	Utica Lake Tamaracks	0	36	36	Acquisition recommended in County park plan
	Subtotal	12 sites	312	317	629	--
Geological Areas	Village of Menomonee Falls	Menomonee Park Quarry and Domes	68	0	68	Existing County ownership
	Village of Menomonee Falls Village of Butler	Menomonee River Outcrop	0	5	5	Site contains a Natural Area of local significance and is within proposed Menomonee River parkway
	Village of Lannon	Raasch's Dome	0	7	7	Recommendation from PR-42; site is adjacent to County Bugline Trail
	Town of Delafield	Jones Quarry	0	4	4	New recommendation
	Town of Lisbon	Sussex Railroad Cut	2	0	2	Existing County ownership (Bugline Trail right-of-way)
	Subtotal	5 sites	70	16	86	--
--	Total	46 sites	1,988	2,482	4,470	--

Source: SEWRPC.

Table 54

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY
LOCAL GOVERNMENTS, SCHOOL DISTRICTS, PUBLIC UTILITIES, AND LAKE DISTRICTS IN KENOSHA COUNTY**

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
Village of Pleasant Prairie	NA-3	Lake Russo Prairie Remnant	0	6	6	Acquisition recommended in local plan
		Des Plaines River Lowlands	270	143	413	Acquisition recommended in local plan
		Pleasant Railroad Prairie	0	6	6	Acquisition recommended in local plan
	CSH	Piela Property	0	1	1	Acquisition recommended in local plan
		Barnes Creek	5	24	29	Acquisition recommended in local plan
		CTH C Prairie Remnant	5	0	5	Existing Village ownership
Subtotal	--	6 sites	280	180	460	--
Village of Silver Lake	NA-3	CTH B-CTH AH Sedge Meadow	0	12	12	Recommendation in PR-42
Subtotal	--	1 site	0	12	12	--
Village of Twin Lakes	CSH	Hamilton Woods	0	18	18	Recommendation in PR-42
Subtotal	--	1 site	0	18	18	--
Kenosha Unified School District No. 1	CSH	Bradford School Woods	19	0	19	Existing School District ownership
Subtotal	--	1 site	19	0	19	--
Powers Lake Management District	NA-3	Powers Lake Tamarack Relict	0	152	152	--
Subtotal	--	1 site	0	152	152	--
Town of Salem	NA-3	Silver Lake Wetlands	0	101	101	New recommendation
		Center Lake Woods and Wetlands	61	11	72	Represents expansion of existing Town project
Subtotal	--	2 sites	61	112	173	--
Town of Somers	CSH	Poerio Park Woods	15	1	16	Represents expansion of existing Town project
Subtotal	--	1 site	15	1	16	--
WE Energies	NA-3	Bain Station Railroad Prairie	4	0	4	Actively managed
Subtotal	--	1 site	4	0	4	--
Total	--	14 sites	379	475	854	--

Source: SEWRPC.

Table 55

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY LOCAL GOVERNMENTS,
MILWAUKEE METROPOLITAN SEWERAGE DISTRICT, AND SCHOOL DISTRICTS IN MILWAUKEE COUNTY**

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
City of Franklin	NA-3	Franklin (Puetz Road) Woods	34	0	34	Existing City ownership
		Elm Road Woods	0	20	20	Recommendation in PR-42
	CSH	Countryside Woods	26	0	26	Existing City ownership
		Oakwood Park Oak Woods	5	3	8	Recommendation in PR-42
	Subtotal	--	4 sites	65	23	88
City of Greenfield	NA-3	Grootemaat Woods	20	0	20	Existing City ownership
Subtotal	--	1 site	20	0	20	--
City of Milwaukee	NA-3	Bradley Woods	16	18	34	Represents expansion of existing City project
	CSH	Research Center Woods	0	22	22	Recommendation in PR-42
	GA-1	Hartung Quarry	17	0	17	Existing City ownership
	Subtotal	--	3 sites	33	40	73
City of Milwaukee School District	NA-3	Glenwood School Woods	7	0	7	New recommendation
Subtotal	--	1 site	7	0	7	Existing School District ownership
City of Oak Creek	NA-3	Wedge Woods	0	17	17	Recommendation in PR-42
	CSH	Wood Creek Woods	0	27	27	Recommendation in PR-42
		PPG Woods	0	19	19	Recommendation in PR-42
	Subtotal	--	3 sites	0	63	63
City of South Milwaukee School District	CSH	Blakewood School	1	0	1	Existing School District ownership
Subtotal	--	1 site	1	0	1	
Village of Greendale	CSH	Westway Woods	9	0	9	Existing Village ownership
Subtotal	--	1 site	9	0	9	--
Village of Fox Point	GA-3	Whitefish Bay Shore Exposure	0	2	2	New recommendation
Subtotal	--	1 site	0	2	2	--
Milwaukee Metropolitan Sewerage District	NA-3	Granville Low Woods	50	0	50	Existing Milwaukee Metropolitan Sewerage District ownership
Subtotal	--	1 site	50	0	50	--
Total	--	16 sites	185	128	313	--

Source: SEWRPC.

Table 56

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND
MANAGEMENT BY LOCAL GOVERNMENTS IN OZAUKEE COUNTY**

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
City of Cedarburg	NA-3	Cedar Creek Forest	0	23	23	Acquisition recommended in local plan
	GA-1	Cedar Creek—Anschuetz Quarries	4	1	5	Acquisition recommended in local plan
	GA-2	Groth Quarry	7	0	7	Existing City ownership
Subtotal	--	3 sites	11	24	35	--
City of Mequon	NA-3	Ville du Parc Riverine Forest	49	62	111	Represents expansion of an existing project
		Highland Road Woods	0	53	53	Recommendation in PR-42
		Solar Heights Low Woods	16	100	116	Represents expansion of an existing project
		Triple Woods	22	31	53	Represents expansion of an existing project
	CSH	Pecard Sedge Meadow	0	16	16	Recommendation in PR-42
		Eastbrook Road Woods	0	9	9	Recommendation in PR-42
		Highland Woods	48	0	48	Conservation easement with Ozaukee Washington Land Trust
Subtotal	--	7 sites	135	271	406	--
Village of Grafton	GA-1	Grafton Outcrops and Lime Kiln Park	47	10	57	Represents expansion of an existing project
Subtotal	--	1 site	47	10	57	--
Town of Cedarburg	NA-3	Mole Creek Swamp/Pleasant Valley Park Woods	70	80	150	Represents expansion of existing Town ownership; site also owned in part by City of Cedarburg
		Five Corners Swamp	18	157	175	New recommendation
Subtotal	--	2 sites	88	237	325	--
Total	--	13 sites	281	542	823	--

Source: SEWRPC.

Table 57

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND
MANAGEMENT BY LOCAL GOVERNMENTS AND LAKE DISTRICTS IN RACINE COUNTY**

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
City of Racine	NA-2	Colonial Park Woods	89	5	94	Represents expansion of existing City ownership
	CSH	Washington Park Woods	14	0	14	Existing City ownership
		Wind Point	4	0	4	Existing City ownership (Shoop Park)
	Subtotal	--	3 sites	107	5	112
Village of Caledonia	NA-2	Caledonia Wildlife Area	133	33	166	Represents expansion of an existing project
	CSH	Hoods Creek Swamp	0	13	13	Recommendation in PR-42
		STH 38/CTH K	0	4	4	New recommendation
	Subtotal	--	3 sites	133	50	183
Village of Mt. Pleasant	NA-3	Hoods Creek Woods	9	63	72	Represents expansion of an existing project
	Subtotal	--	1 site	9	63	72
Village of Wind Point	GA-2	Wind Point	-- (4)	1 (1)	1 (5)	Recommendation in PR-42
	Subtotal	--	1 site	0	1	1
Town of Burlington	NA-3	Wehmhoff Park Upland Woods and Wetlands	74	6	80	Represents expansion of an existing project
	CSH	Mt. Tom Woods	3	21	24	Represents expansion of an existing project
	Subtotal	--	2 sites	77	27	104
Bohner Lake Sanitary District No. 1	NA-3	Bohner Lake Lowlands	0	33	33	Recommendation in PR-42
	Subtotal	--	1 site	0	33	33
Wind Lake Management District	NA-3	Wind Lake Wet Meadow	0	11	11	Recommendation in PR-42
	CSH	Erwin Wetlands	0	2	2	Recommendation in PR-42
		Landon Wetland	0	12	12	Recommendation in PR-42
		Wind Lake	22	36	58	Recommendation in PR-42
	Subtotal	--	4 sites	22	61	83
Total	--	15 sites	348	240	588	--

Source: SEWRPC.

Table 58

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND
MANAGEMENT BY LOCAL GOVERNMENTS AND LAKE DISTRICTS IN WALWORTH COUNTY**

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
City of Lake Geneva	NA-3	Oak Hill Cemetery Woods	0	138	138	New recommendation
Subtotal	--	1 site	0	138	138	--
Village of Fontana-on-Geneva Lake	NA-3	Fontana Prairie and Fen	10	0	10	Existing Village ownership
		North Shore Woods	0	38	38	New recommendation
Subtotal	--	2 sites	10	38	48	--
Village of Williams Bay	NA-3	Williams Bay Lowlands	16	0	16	Existing Village ownership
Subtotal	--	1 site	16	0	16	--
Town of Linn	CSH	Town of Linn Park	153	0	153	Represents existing Town ownership
Subtotal	--	1 site	153	0	153	--
Town of Lyons	NA-3	Lake Geneva Tamarack Relict	0	163	163	New recommendation
Subtotal	--	1 site	0	163	163	--
Town of Delavan	NA-3	Lake Lawn Wetland Complex	35	258	293	New recommendation
Subtotal	--	1 site	35	258	293	--
Lauderdale Lakes Lake Management District	CSH	Lauderdale Lakes Woods	0	28	28	Recommendation in PR-42
Subtotal	--	1 site	0	28	28	--
North Lake District	NA-3	North Lake Marsh	61	6	67	Recommendation in PR-42
Subtotal	--	1 site	61	6	67	--
Potter Lake District	NA-3	Potter Lake Tamaracks	0	22	22	Recommendation in PR-42
Subtotal	--	1 site	0	22	22	--
Total	--	10 sites	275	653	928	--

Source: SEWRPC.

Table 59

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY LOCAL GOVERNMENTS,
MILWAUKEE METROPOLITAN SEWERAGE DISTRICT, AND SCHOOL DISTRICTS IN WASHINGTON COUNTY**

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments	
			Already Under Protective Ownership	Proposed to be Acquired	Total		
City of West Bend	NA-2	Blue Hills Woods	125	138	263	Represents expansion of an existing project	
		Lac Lawrann Conservancy Upland Woods and Wetlands	78	23	101	Represents expansion of an existing project	
	NA-3	Albecker Park Wetlands	31	60	91	Represents expansion of an existing project	
		Muth Woods	21	0	21	Conservation easement with Ozaukee Washington Land Trust	
		Sunset Park Wetlands	0	85	85	Acquisition recommended by City park plan	
		Regner Park Woods	25	0	25	Existing City ownership	
	GA-3	Lac Lawrann Kame and Esker	University Fen	1	0	1	Existing City ownership
				--	--	--	Existing City ownership
	CSH	Cameron Property		0	10	10	Acquisition recommended by City park plan
			Silver Lake Woods	0	11	11	Recommendation in PR-42
			Silver Lake Swamp	0	10	10	Recommendation in PR-42
Subtotal	--	11 sites	281	337	618	--	
Village of Germantown	NA-1	Germantown Swamp	261	113	374	Represents expansion of an existing project	
			0	110	110	Recommendation in PR-42	
	NA-3	Lake Park Swamp	9	45	54	Represents expansion of an existing project	
		Schoessow Woods	0	51	51	Recommendation in PR-42	
		Kleinman Swamp	38	33	71	New recommendation	
Subtotal	--	5 sites	308	352	660	--	
Village of Jackson	CSH	Jackson Woods	25	0	25	Existing Village ownership	
Subtotal	--	1 site	25	0	25	--	
Village of Kewaskum	GA-2	Kewaskum Kame	0	47	47	Recommendation in PR-42	
Subtotal	--	1 site	0	47	47	--	
Town of Addison	CSH	Doll Woods	0	25	25	Recommendation in PR-42	
		St. Anthony Maple Woods	0	100	100	New recommendation; site lies within a forest interior habitat site	
Subtotal	--	2 sites	0	125	125	--	
Town of Barton	NA-3	Wildwood Hardwood Swamp	0	98	98	New recommendation	
Subtotal	--	1 site	0	98	98	--	
Town of Hartford	CSH	Unnamed Wetland No. 2	0	26	26	Recommendation in PR-42	
Subtotal	--	1 site	0	26	26	--	
West Bend School District	CSH	High School Woods	9	0	9	Existing School District ownership	
Subtotal	--	1 site	9	0	9	--	
Milwaukee Metropolitan Sewerage District	NA-3	USH 41 Swamp	55	198	253	Represents expansion of an existing project	
Subtotal	--	1 site	55	198	253	--	
Total	--	24 sites	678	1,183	1,861	--	

Source: SEWRPC.

Table 60

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY
LOCAL GOVERNMENTS, SCHOOL DISTRICTS, AND LAKE DISTRICTS IN WAUKESHA COUNTY**

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
City of Brookfield	NA-3	Wirth Swamp	23	62	85	Expansion of an existing City project
		Brookfield Swamp	141	60	201	Expansion of an existing City project
		Zion Woods	53	3	56	Expansion of an existing City project
	CSH	Kinsey Park Woods	5	2	7	Expansion of an existing City project
Subtotal	--	4 sites	222	127	349	--
City of Muskego	NA-3	Ryan Road Swamp	0	45	45	New recommendation
		Luther Parker Cemetery Prairie	1	0	1	Existing City ownership
	CSH	Denoon Lake Wetlands	0	30	30	Acquisition recommended in City park plan
		Old Muskego Settlement Woods	13	5	18	Expansion of an existing City project
	Forest Interiors	Parker Drive Woods	0	123	123	New recommendation
Subtotal	--	5 sites	14	203	217	--
City of New Berlin	NA-3	New Berlin Woods	36	0	36	Existing City ownership
	CSH	Delopst Meadow	0	23	23	Acquisition recommended in City park plan
		Kostello Property	0	11	11	Acquisition recommended in City park plan
		Moorland Road Woods and Ponds	0	26	26	New recommendation
		Stigler Woods	44	9	53	Expansion of an existing City project
Subtotal	--	5 sites	80	69	149	--
City of Oconomowoc	NA-3	Oconomowoc Swamp	75	73	148	Expansion of an existing City project
Subtotal	--	1 site	75	73	148	--
City of Waukesha	NA-3	Fruits Pond Fen	16	0	16	Existing City ownership
		Pebble Creek Wetlands	12	63	75	Expansion of an existing City project
Subtotal	--	2 sites	28	63	91	--
Village of Dousman	CSH	Dousman Mill Pond	36	0	36	Existing Village ownership
Subtotal	--	1 site	36	0	36	--
Village of Elm Grove	CSH	Underwood Creek Woods	12	10	22	New recommendation
Subtotal	--	1 site	12	10	22	--
Village of Hartland	NA-3	Hartland Railroad Prairie	0	4	4	Recommendation in PR-42
Subtotal	--	1 site	0	4	4	--
Village of Lac La Belle	NA-3	Lac La Belle Lowlands	0	33	33	Recommendation in PR-42; an additional 16 acres of this site are located in Jefferson County
Subtotal	--	1 site	0	33	33	--
Village of Menomonee Falls	NA-2	Menomonee Falls "Tamarack" Swamp	403	419	822	The Village has established a project boundary for acquisition of this area
	NA-3	Harbinger Woods	0	13	13	Acquisition recommended in County park plan; an additional 34 acres of this site are located in Milwaukee County
		Theater Swamp	92	0	92	Existing Village ownership
	GA-1	Menomonee Falls Reef	9	0	9	Existing Village ownership
Subtotal	--	4 sites	504	432	936	--

Table 60 (continued)

Proposed Acquisition Agency	Type of Area	Name	Site Area (acres)			Comments
			Already Under Protective Ownership	Proposed to be Acquired	Total	
Village of Mukwonago	NA-2	Phantom Lake Wetlands	167	23	190	Represents an expansion of an existing project
		Lower Mukwonago River	15	8	23	Represents an expansion of an existing project
	Subtotal	--	2 sites	182	31	213
Village of Pewaukee	NA-3	Pewaukee Park Sedge Meadow	0	42	42	Recommendation in PR-42; site is adjacent to Village Park
	GA-1	Pewaukee Stone Pits, Quarries, and Outcrops	3	4	7	Recommendation in PR-42; site is adjacent to Village Park and the Pewaukee Park Sedge Meadow Natural Area
	Subtotal	--	2 sites	3	46	49
Village of Sussex	GA-3	Sussex Lime Kilns	0	1	1	New recommendation
Subtotal	--	1 site	0	1	1	--
Town of Genesee	CSH	Lunt-Fontanne Park Prairie	6	14	20	Represents an expansion of an existing project
	GA-3	Johnston Quarry and Kilns	0	14	14	New recommendation
	Subtotal	--	2 site	6	28	34
Town of Genesee Town of Delafield	GA-1	Scuppernong Creek Spillway	-- (104)	40 --	40 (104)	New recommendation
Subtotal	--	1 site	--	40	40	--
Town of Merton	NA-2	Lake Keesus Fen-Meadow	33	108	141	New recommendation
	NA-3	Merton Millpond and Woods	62	4	66	Represents an expansion of an existing Town project
	Subtotal	--	2 sites	95	112	207
Oconomowoc Area School District	NA-3	Meadow View School Bog	5	6	11	Recommendation in PR-42
Subtotal	--	1 site	5	6	11	--
Big Muskego—Bass Bay Lake Management District	NA-2	Muskego Lake Marsh	1,916	1,110	3,026	Recommendation in PR-42
	Subtotal	--	1 site	1,916	1,110	3,026
Pewaukee Lake Sanitary District	NA-3	Capitol Drive Sedge Meadow and Wet Prairie	21	69	90	Recommendation in PR-42
		Pewaukee Lake Wetland	0	65	65	Recommendation in PR-42
		Pewaukee Sedge Meadow	0	13	13	Recommendation in PR-42
	CSH	Meadowbrook Prairie	16	0	16	Existing Sanitary District ownership
	Subtotal	--	4 sites	37	147	184
Linnie Lac Management District	CSH	Spring Valley Woods	10	4	14	Represents an expansion of an existing project
	Subtotal	--	1 site	10	4	14
Town of Summit Sanitary District No. 1	NA-3	Breens Bay Sedge Meadow	0	16	16	Recommendation in PR-42
	Subtotal	--	1 site	0	16	16
Total	--	43 sites	3,210	2,555	5,765	--

Source: SEWRPC.

Table 61

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND
MANAGEMENT BY PRIVATE CONSERVANCY ORGANIZATIONS**

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-1 Natural Areas	Kenosha	Village of Pleasant Prairie	Chiwaukee Prairie State Natural Area	251	57	308	Site lies within an existing project boundary of The Nature Conservancy (Chiwaukee Prairie Preserve)
		Town of Salem	Silver Lake Bog State Natural Area	14	4	18	Represents expansion of Silver Lake Sportsmen's Club ownership
			Stopa Fen	0	9	9	Recommendation in PR-42
	Ozaukee	City of Mequon Village of Bayside	Fairy Chasm State Natural Area	47	33	80	Ownership recently transferred from The Nature Conservancy to Ozaukee Washington Land Trust; site includes about 47 acres in Ozaukee County and about 33 acres in Milwaukee County
			Town of Fredonia	Huiras Lake and Bog	103	337	440
		Town of Grafton	Kurtz Woods State Natural Area	45	25	70	Ownership recently transferred from The Nature Conservancy to Ozaukee Washington Land Trust
		Town of Saukville	Riveredge Creek and Ephemeral Pond State Natural Area	78	22	100	Represents expansion of Riveredge Nature Center
	Racine	Village of Mt. Pleasant	Franksville Railroad Prairie	0	4	4	Recommendation in PR-42
	Walworth	Town of Troy	Pickerel Lake Fen State Natural Area	86	187	273	Site lies within an existing project boundary of The Nature Conservancy (Pickerel Lake Fen)
	Washington	Town of Erin	Murphy Lake—McConville Lake Wetland Complex	279	608	887	Represents an expansion of an existing project of The Nature Conservancy (Walter and Rose Zinn Preserve)
Subtotal	--	10 sites	903	1,286	2,189	--	
NA-2 Natural Areas	Milwaukee	City of Franklin	Adams Prairie	0	37	37	New recommendation
	Ozaukee	Town of Grafton	Abbott Woods and Ravine	0	31	31	Conservation easement
			Donges Bay Gorge	22	0	22	Managed by Ozaukee Washington Land Trust
		Town of Saukville	Ducks Limited Bog	13	8	21	Represents expansion of Ducks Limited ownership
			Max's Bog	6	24	30	Recommended to be acquired by Ozaukee Washington Land Trust
			South Conifer Swamp	3	50	53	Recommended to be acquired by Ozaukee Washington Land Trust
			Riveredge Mesic Woods	158	54	212	Represents expansion of Riveredge Nature Center
	Walworth	Town of Troy	Upper Mukwonago River Wetland Complex	85	253	338	Represents an expansion of an existing project of The Nature Conservancy (Lulu Lake State Natural Area)
		Town of Troy Town of East Troy	Swan Lake Wetland Complex	26	141	167	Represents an expansion of an existing project of The Nature Conservancy (Pickerel Lake Fen)
	Washington	Village of Richfield	Colgate Fen-Meadow	0	23	23	Recommendation in PR-42

Table 61 (continued)

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-2 Natural Areas (continued)	Washington (continued)	Town of West Bend	Gilbert Lake Wetlands and Uplands	56	131	187	Represents expansion of Cedar Lakes Conservation Foundation ownership
			Little Cedar Lake Wetlands	123	11	134	Represents expansion of Cedar Lakes Conservation Foundation ownership
	Waukesha	Town of Summit	Sawyer Road Sedge Meadow	40	0	40	Site currently owned by Waukesha Land Conservancy
	Subtotal	--	13 sites	532	763	1,295	--
NA-3 Natural Areas	Kenosha	Village of Pleasant Prairie	Carol Beach Estates Prairie	6	1	7	Site lies within an existing project boundary of The Nature Conservancy (Chiwaukee Prairie Preserve)
		Town of Brighton	Section 11 Wetland and Oak Woods	0	130	130	Recommendation in PR-42
		Town of Bristol	Salem Road Marsh	27	0	27	Site is currently owned by the Conservation Club of Kenosha
		Town of Paris	Paris (Ehlen) Prairie Remnant	0	1	1	Recommendation in PR-42
		Town of Salem	Montgomery Lake Marsh	14	38	52	Recommendation in PR-42
		Town of Wheatland	Dyer Lake Sedge Meadow	6	34	40	Recommendation in PR-42
		Town of Wheatland Town of Brighton	Peterson Creek Sedge Meadow	0	69	69	Recommendation in PR-42
	Milwaukee	City of Franklin	Fitzsimmons Woods	39	0	39	Existing ownership by Milwaukee Area Land Conservancy
		City of Milwaukee	Convent Woods	0	9	9	New recommendation
		Village of Bayside	Schlitz Audubon Center/Doctors Park Woods and Beach	72	0	72	Site partially owned by Schlitz Audubon Center and partially by Milwaukee County (current joint ownership recommended to be retained)
	Ozaukee	Town of Belgium	Cedar Grove Swamp	2	183	185	Recommendation in PR-42
			Town of Cedarburg	Sherman Road Woods	0	71	71
		Town of Fredonia	Spring Lake Marsh	3	18	21	Recommendation in PR-42
			Spring Lake Beech Forest	0	62	62	Recommendation in PR-42
			County Line Low Woods	0	296	296	An additional 71 acres of this site extends into Sheboygan County; conservation easement
			Pioneer Road Lowlands	0	93	93	Recommendation in PR-42; conservation easement
			Cedar Valley Swamp	0	140	140	Recommendation in PR-42
			Evergreen Road Bog	5	39	44	Recommendation in PR-42
			Kohler Road Woods	0	128	128	Recommendation in PR-42
		Town of Grafton	Cedar Heights Gorge	0	9	9	Recommendation in PR-42
			Grafton Woods	18	0	18	Existing Ozaukee Washington Land Trust ownership
			Ulao Lowland Forest	0	342	342	Recommendation in PR-42
		Town of Saukville	Hansen's Lake Wetland	16	0	16	Existing Ozaukee Washington Land Trust ownership
			Knollwood Road Bog	4	5	9	Recommendation in PR-42; conservation easement
		Racine	Village of Caledonia	Seven Mile Road Woods	0	20	20
	Dominican Ravine			0	18	18	Recommendation in PR-42
	Zirbes Woods			0	13	13	Recommendation in PR-42
Foley Road Woods—West	0			19	19	Recommendation in PR-42	
Foley Road Woods—East	0			24	24	Recommendation in PR-42	
Tabor Woods	20			86	106	Represents an expansion of existing ownership by Caledonia Conservancy	

Table 61 (continued)

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-3 Natural Areas (continued)	Racine (continued)	Town of Dover	Vandenboom Road Marsh	7	20	27	Recommendation in PR-42
		Town of Burlington Town of Lyons	Burlington Hills Woods	0	502	502	This site is located within the Lyons Glacial Deposits Geological Area; includes 416 acres in Racine County and 86 acres in Walworth County
		Town of Raymond	Kimmel Woods	0	40	40	Recommendation in PR-42
		Village of Rochester	Rowntree Road Woods	0	77	77	Recommendation in PR-42
			English Settlement Prairie	0	16	16	Recommendation in PR-42
			Eagle Creek Woods	0	84	84	Recommendation in PR-42
		Walworth	City of Elkhorn	Jackson Creek Wetlands	22	0	22
	Town of Bloomfield		Hafs Road Marsh	93	16	109	Recommendation in PR-42
			Bloomfield Prairie	0	6	6	Recommendation in PR-42
	Town of East Troy		Army Lake Lowlands	9	83	92	Recommendation in PR-42
			East Troy Bog	0	6	6	New recommendation
	Town of Geneva		Hilburn Sedge Meadow	0	66	66	Recommendation in PR-42
			Lake Como Wetlands	30	16	46	Represents an expansion of existing ownership by the Lake Como Association
	Town of Lafayette		Granzeau Woods	0	133	133	Recommendation in PR-42
			Pallottine Maple Woods	0	152	152	Recommendation in PR-42
			Abells Corners Sedge Meadow and Tamarack Relict	0	42	42	Recommendation in PR-42
	Town of LaGrange		Island Woods	34	12	46	Represents expansion of Kettle Moraine Land Trust ownership
	Town of LaGrange Town of Sugar Creek		Baywood Road Sedge Meadow	3	24	27	Recommendation in PR-42
	Town of Linn		Peninsula Woods	0	37	37	Recommendation in PR-42
	Town of Geneva Town of Linn		Wychwood	0	226	226	Recommendation in PR-42
	Town of Lyons		Peterson Fen	0	2	2	Recommendation in PR-42
			Ivanhoe Creek Fen	0	30	30	Recommendation in PR-42
			Cranberry Road Bog	0	46	46	Recommendation in PR-42
	Town of Lyons Town of Burlington		Tri-County Tamarack Swamp	0	40	40	Includes 25 acres in Walworth County and 15 acres in Racine County; conservation easement
	Town of Richmond		Lake Loraine Woods—East	0	74	74	Recommendation in PR-42
			Lake Loraine Marsh	32	3	35	Recommendation in PR-42
			Lake No. 10	40	0	40	Recommendation in PR-42
	Town of Sharon		Salt Box Road Railroad Prairie	0	12	12	Recommendation in PR-42
	Town of Spring Prairie		Spring Prairie Lowlands	0	297	297	Recommendation in PR-42
	Town of Sugar Creek		Lake Wandawega Marsh	51	32	83	Recommendation in PR-42
			Silver Lake	76	20	96	Recommendation in PR-42
	Town of Troy		Crooked Creek Sedge Meadow	27	0	27	Site is currently owned by The Nature Conservancy
			Doyles Lake Wetlands	27	41	68	Recommendation in PR-42
		Lein's Road Fen	0	22	22	Recommendation in PR-42	
Washington	Town of Barton	Kohlsville River Upland Woods and Wetlands	0	100	100	New recommendation	
	Town of Erin	Hults Bog and Marsh	0	14	14	Recommendation in PR-42	
		Erin Sedge Meadow	0	17	17	Recommendation in PR-42	
		Thompson Swamp	0	214	214	Recommendation in PR-42	

Table 61 (continued)

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-3 Natural Areas (continued)	Washington (continued)	Town of Erin	CTH E Wetlands	0	28	28	Recommendation in PR-42
		Town of Hartford					
		Town of Farmington	Milwaukee River Swamp	72	475	547	Recommendation in PR-42; conservation easement
			Green Lake Bog	0	19	19	It is recommended that this site be acquired by the Green lake Association
		Town of Hartford	STH 60 Swamp	0	31	31	Recommendation in PR-42
		Town of Kewaskum	STH 28 Woods	0	122	122	Recommendation in PR-42
		Village of Richfield	CTH J Swamp	33	67	100	Represents an expansion of existing ownership by the Kettle Moraine Audubon Society
			Hubertus Road Sedge Meadow	0	7	7	Recommendation in PR-42
			Amy Bell Lake and Lowlands	6	14	20	Recommendation in PR-42
			Amy Bell Lake Bog	0	5	5	New recommendation
			Colgate Shrub-Carr	0	37	37	Recommendation in PR-42
			Lake Five Woods	0	145	145	Recommendation in PR-42
		Town of Trenton	Poplar Road Lacustrine Forest	0	182	182	Recommendation in PR-42
			Fellenz Hardwood Swamp	58	18	76	Represents an expansion of existing ownership by the Ozaukee Washington Land Trust
			Paradise Drive Tamarack Swamp	8	73	81	Recommendation in PR-42; conservation easement
			Camp Wowitan Wetlands	10	99	109	Recommendation in PR-42; conservation easement
	Town of Wayne	Stockcar Swamp	0	244	244	Recommendation in PR-42	
	Town of West Bend	CTH Z Upland Woods and Wetlands	41	240	281	Represents expansion of Cedar Lakes Conservation Foundation ownership	
	Waukesha	City of Brookfield	Bishops Woods	0	44	44	Site currently owned by Bishops Woods Corporation
		City of Delafield	Nashotah House Woods	0	101	101	Recommendation in PR-42
		Village of Nashotah					
		Village of Menomonee Falls	Peters Woods	0	82	82	Recommendation in PR-42
		Town of Delafield	Golf Cliff Ridge and Woods	0	8	8	New recommendation
			Prairie Wind Farms Woods	0	22	22	New recommendation
		Town of Eagle	Road X Railroad Prairie	0	4	4	Recommendation in PR-42
			Jericho Creek Fen	0	8	8	Recommendation in PR-42
			Mailman Road Railroad Prairie	0	9	9	Recommendation in PR-42
			Eagle Centre (Hafner) Oak Opening	20	0	20	Existing Waukesha Land Conservancy ownership
			Holtz Oak Opening	0	88	88	Recommendation in PR-42
			Malek Wetland	48	48	96	Represents an expansion of an existing project of The Nature Conservancy
		Town of Lisbon	Colgate Road Swamp and Woods	0	170	170	New recommendation
Sussex Swamp			0	148	148	Recommendation in PR-42	
Town of Merton		Camp Whitcomb Lowland	40	9	49	Represents an expansion of existing ownership by Camp Whitcomb	
Town of Mukwonago	North Prairie Railroad Prairie	0	7	7	Recommendation in PR-42		

Table 61 (continued)

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-3 Natural Areas (continued)	Waukesha (continued)	Town of Oconomowoc	Oconomowoc Sedge Meadow	16	3	19	Recommendation in PR-42
		Town of Ottawa	Casper Creek Sedge Meadow	0	16	16	Recommendation in PR-42
			Ottawa Limestone Outcrop	30	37	67	Represents an expansion of existing ownership by the Ice Age Park & Trail Foundation, Inc.
			Larkin Lake	34	6	40	Recommendation in PR-42
			CTH ZC Lowlands	188	190	378	Represents an expansion of existing ownership by Waukesha Land Conservancy
			Nelson Oak Woods and Wetlands	91	0	91	Site currently owned by Waukesha Land Conservancy
		Town of Ottawa Town of Summit	Perkins Property	394	51	445	Represents an expansion of existing ownership by the Izaak Walton League
		City of Pewaukee	Busse Woods	1	39	40	Recommendation in PR-42
		Town of Summit	Crossroads Bog	1	3	4	Recommendation in PR-42
			Dousman Road Fen-Meadow	0	3	3	New recommendation
			Laura Lake Swamp	8	270	278	Recommendation in PR-42
		Town of Vernon	Reinke Sedge Fen	0	18	18	New recommendation
		Town of Waukesha	Pebble Creek Woods—North	0	9	9	New recommendation
			Pebble Creek Woods—South	0	15	15	New recommendation
			Subtotal	--	114 sites	1,782	7,584
--	Natural Areas Subtotal	--	137 sites	3,217	9,633	12,850	--
Critical Species Habitat Areas	Kenosha	Town of Brighton	Peterson Creek Wetland	0	84	84	Recommendation in PR-42
		Town of Bristol	Louvain Old Field	0	1	1	New recommendation
		Town of Randall	Wilmot Stream Woodland	0	8	8	New recommendation
		Town of Salem	Wilmot Ski Hill Prairie	0	1	1	Recommendation in PR-42
			Trevor Creek Wet Prairie	0	42	42	Recommendation in PR-42
	Town of Wheatland	Kotrba Wetland	0	15	15	New recommendation	
	Milwaukee	City of Franklin	Shooting Star Prairie and Shrubland	15	3	18	Represents an expansion of existing ownership by Milwaukee Area Land Conservancy
		City of Oak Creek	Puetz Road Woods	0	22	22	New recommendation
		Village of Fox Point	Fox Point Bluffs and Ravines	0	93	93	Recommendation in PR-42
	Ozaukee	City of Mequon	Gengler's Woods	4	0	4	Ozaukee Washington Land Trust; part of Mequon Nature Preserve
			Stauss Woods	8	0	8	Ozaukee Washington Land Trust; part of Mequon Nature Preserve
		Town of Cedarburg	Woodland Meadows Woods	0	40	40	New recommendation
		Town of Fredonia	Heinen Woods	0	32	32	New recommendation
		Town of Grafton	Port Washington Clay Banks	0	35	35	New recommendation
		Town of Port Washington	Port Washington Beach and Dunes	0	29	29	New recommendation
Sauk Creek Nature Preserve			13	0	13	Ozaukee Washington Land Trust	

Table 61 (continued)

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
Critical Species Habitat Areas (continued)	Racine	Village of Caledonia	North Bay Ravine and Beach	0	2	2	Recommendation in PR-42
			Caledonia Sanitary Sewer Right-of-Way	18	76	94	Represents an expansion of existing ownership by Caledonia Conservancy
		Village of Caldeonia Village of Wind Point	Wind Point Ravine Woods	0	14	14	New recommendation
		Village of Mt. Pleasant	Campbell Woods	0	43	43	Recommendation in PR-42
		Town of Burlington	Burlington Crevasse Filling	0	34	34	Recommendation in PR-42
		Town of Norway	Waubeesee Lake	0	16	16	It is recommended that this site be acquired by the Waubeesee Lake Association
	Walworth	Village of Fontana	Lyons Woods	0	35	35	New recommendation
			Town of Bloomfield	Section Five Marsh and Pond	0	21	21
		Town of Bloomfield Town of Lyons	Townline Pond	0	50	50	Recommendation in PR-42
		Town of East Troy	Anderson Bog	0	1	1	New recommendation
		Town of LaGrange	Juniper Knoll Camp Woods	0	98	98	New recommendation
		Town of Lyons	Radio Station Wetland	0	26	26	Recommendation in PR-42
			Peterson Property	0	40	40	Recommendation in PR-42
			Roden Oak Woods	0	41	41	New recommendation
			Seno Oak Opening	0	2	2	New recommendation; conservation easement
		Town of Richmond	Unnamed Wetland	20	6	26	Recommendation in PR-42
		Town of Troy	Camp Timberlee	0	65	65	Recommendation in PR-42
			Doyles Lake Prairies	0	1	1	Recommendation in PR-42
	Harmony Hills Savanna		0	77	77	Recommendation in PR-42	
	Washington	Village of Germantown	Wheaton Woods	0	13	13	New recommendation
			Willow Creek Swamp	0	62	62	New recommendation
		Town of Farmington	STH 28 Woodland	0	12	12	New recommendation
		Town of West Bend	Gilbert Lake Woodland	0	85	85	New recommendation
	Waukesha	City of Delafield	Nagawicka Lake	0	23	23	It is recommended that this site be acquired by the Waukesha Land Conservancy
			City of Muskego	Schroeder Woods	0	35	35
		City of Pewaukee	CTH M Shrubland	0	41	41	New recommendation
		Village of Menomonee Falls	Thorndell Avenue Woods	0	15	15	New recommendation
		Town of Delafield	Taylor Road Woods	0	30	30	New recommendation
		Town of Eagle	Jericho Creek Oak Woods	0	69	69	New recommendation
			Nature Road Woodland and Dry Prairie	0	44	44	New recommendation
		Town of Genesee	Dragon Fen	0	1	1	New recommendation
		Town of Merton	North Lake Low Woods	0	38	38	New recommendation
		Town of Mukwonago	Spring Lake Woods	0	14	14	Recommendation in PR-42
		Town of Oconomowoc	Stonebank Tamarack Relict	28	164	192	Recommendation in PR-42
		Town of Ottawa	School Section Lake	0	10	10	Recommendation in PR-42
			Lurvey Tamaracks	0	179	179	Recommendation in PR-42
Stephenson Shrubby Fen			0	27	27	New recommendation	
City of Pewaukee	Swan Farms Woods	0	71	71	New recommendation		

Table 61 (continued)

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments	
				Already Under Protective Ownership	Proposed to be Acquired	Total		
Critical Species Habitat Areas (continued)	Waukesha (continued)	Town of Summit	Massaro Woods	0	6	6	Recommendation in PR-42	
			Genesee Lake Road Tamaracks	0	111	111	Recommendation in PR-42	
			Duck Lake	0	38	38	Recommendation in PR-42	
		Town of Vernon	Pheasant Hill Woods	0	24	24	Recommendation in PR-42	
			Mill Brook Fen	0	13	13	New recommendation	
	Subtotal	--	59 sites	106	2,178	2,284	--	
Forest Interiors	Washington	Town of Trenton	Shady Lane Woods	0	147	147	Recommended to be acquired by Ozaukee Washington Land Trust	
	Subtotal	--	1 site	0	147	147	--	
GA-1 Geological Area	Waukesha	City of Waukesha	Carroll College Quarry	1	--	1	Recommendation in PR-42	
	Subtotal	--	1 site	1	--	1	--	
GA-3 Geological Areas	Ozaukee	Town of Saukville	Riveredge Bluff	-- (1)	-- --	-- (1)	This site is within the Riveredge nature Center and the Riveredge mesic Woods Natural Area, an NA-2 site	
	Racine	Town of Burlington	Burlington Crevasse Filling	-- --	12 (35)	12 (35)	--	
	Walworth	Town of Spring Prairie	Voree Quarry	--	16	16	Recommendation in PR-42	
		Town of Lyons Town of Burlington	Lyons Glacial Deposits	-- --	-- (637)	-- (637)	About 637 acres of this 3,888-acre site are within a Natural Area of local significance proposed to be acquired by a private conservation group. The remaining 3,251 acres are not proposed for protective ownership	
	Washington	Town of Kewaskum	Kewaskum Quarry and Lime Kiln	--	5	5	Recommendation in PR-42	
		Town of Trenton	Camp Wowitan Esker	-- --	54 (57)	54 (57)	About three acres of this site lie within the Camp Wowitan Wetlands Natural Area, an NA-3 site proposed to be acquired for protective ownership by a private conservancy organization	
			Trenton Lime Kilns and Quarry	--	3	3	Recommendation in PR-42	
	Waukesha	Village of Menomonee Falls	Derrick Quarry	-- (1)	-- --	-- (1)	The entire area is located within the Peters Woods Natural Area, an NA-3 site proposed to be acquired for protective ownership by a private conservancy organization	
			Town of Eagle	Jericho Creek Outcrop	--	8	8	Recommendation in PR-42
		Town of Merton	Merton Esker	--	14	14	Recommendation in PR-42	
		Town of Ottawa	Unnamed Bluff	--	24	24	Recommendation in PR-42	
			Unnamed Quarry	--	3	3	Recommendation in PR-42	
		Hunter's Bluff	-- --	-- (18)	-- (18)	The entire site is located within the Ottawa Limestone Outcrop Natural Area, an NA-3 site proposed to be acquired for protective ownership by a private conservancy organization		
	Subtotal	--	13 sites	--	139	139	--	
	Geological Areas Subtotal	--	14 sites	1	139	140	--	
	--	Total	--	211 sites	3,324	12,097	15,421	--

Source: SEWRPC.

Table 62

**SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY THE
UNIVERSITY OF WISCONSIN, THE WISCONSIN DEPARTMENT OF TRANSPORTATION, OR OTHER STATE AGENCY**

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-1 Natural Areas	Ozaukee	Town of Saukville	Sapa Spruce Bog	26	37	63	Represents an expansion of existing ownership by the University of Wisconsin
	Racine	Village of Caledonia	Renak-Polak Woods State Natural Area	96	42	138	Represents an expansion of existing ownership by the University of Wisconsin
	Subtotal	--	2 sites	122	79	210	--
NA-2 Natural Areas	Kenosha	Town of Bristol	Benedict Prairie	6	0	6	Site is owned by the University of Wisconsin
	Ozaukee	Town of Saukville	Cedarburg Beech Woods State Natural Area	91	43	134	Represents an expansion of existing ownership by the University of Wisconsin
	Waukesha	Town of Ottawa	Henrietta Lake Bog	0	6	6	Recommended to be acquired by University of Wisconsin—Waukesha
	Subtotal	--	3 sites	97	49	146	--
NA-3 Natural Areas	Milwaukee	City of Milwaukee	Downer Woods	11	0	11	Site is owned by the University of Wisconsin
	Walworth	Town of Delavan	Marsh Road Railroad Prairie	6	0	6	Site is owned by the Wisconsin Department of Transportation
	Washington	Town of Erin	Mason Creek Swamp	124	301	425	Represents an expansion of existing ownership by the University of Wisconsin
	Waukesha	Town of Eagle	Old World Wisconsin Marsh	33	5	38	Represents an expansion of existing ownership by Wisconsin Historical Society
	Subtotal	--	4 sites	174	306	480	--
--	Natural Areas Subtotal	--	9 sites	393	434	827	--
Critical Species Habitat Sites	Kenosha	Town of Somers	Parkside Woods	15	0	15	Site is owned by the University of Wisconsin—Parkside
			Parkside Ski Trails Woods	28	0	28	Site is owned by the University of Wisconsin—Parkside
	Racine	Town of Burlington	Ranger Mac Fen	22	0	22	Represents an expansion of existing ownership by the University of Wisconsin—Parkside
	Walworth	Town of Geneva	Elkhorn Railroad Prairie Remnant	7	0	7	Site is owned by the Wisconsin Department of Transportation
	Waukesha	City of Muskego	Peters Oak Woods	23	0	23	Site is owned by the Wisconsin Department of Transportation
	Subtotal	--	5 sites	95	0	95	--
Geological Areas	Milwaukee	City of Wauwatosa	Schoonmaker Reef	0	5	5	Recommended to be acquired by University of Wisconsin—Milwaukee
		Village of Brown Deer	Brown Deer Railroad Cut	0	2	2	Recommended to be acquired by University of Wisconsin—Milwaukee
	Washington	Village of Germantown	Germantown Road Cut	5	0	5	Site is owned by the Wisconsin Department of Transportation
	Subtotal	--	3 sites	5	7	12	--
--	Total	--	17 sites	493	441	934	--

Source: SEWRPC.

Table 63

SUMMARY OF SITES RECOMMENDED FOR ACQUISITION AND MANAGEMENT BY AGENCIES OF THE FEDERAL GOVERNMENT

Type of Area	County	Civil Division(s)	Name	Site Area (acres)			Comments
				Already Under Protective Ownership	Proposed to be Acquired	Total	
NA-3 Natural Area	Ozaukee	Town of Grafton	U.S. Fish and Wildlife Service Area	67	0	67	Existing U.S. Fish and Wildlife Service ownership
		Subtotal	1 site	67	0	67	--
		All Natural Areas Subtotal	1 site	67	0	67	--
Critical Species Habitat Areas	Milwaukee	City of Milwaukee	Army Reserve Woods	11	0	11	Existing U.S. Army Reserve ownership
			Stadium Bluff Woods	6	0	6	Existing U.S. Veterans Administration ownership
		Village of Brown Deer	Silver Maple Island	1	0	1	Existing Bureau of Land Management ownership
	Ozaukee	Town of Grafton	Bike Path Island	1	0	1	Existing Bureau of Land Management ownership
		Subtotal	4 sites	19	0	19	--
Grasslands	Walworth	Town of Linn Town of Bloomfield	Hack-ma-tack Wildlife Refuge	-- (0)	-- (5,000)	-- (5,000)	Listed under Table 46; proposed to be jointly owned and managed with Wisconsin Department of Natural Resources
		Subtotal	1 site	--	--	--	--
Geological Area	Milwaukee	City of Milwaukee	Soldier's Home Reef	-- (5)	--	-- (5)	Sites lies within the Stadium Bluff Woods Critical Species Habitat site
		Subtotal	1 site	--	--	--	--
--	--	Total	7 sites	86	0	86	--

Source: SEWRPC.

Table 64

UNIT VALUES (DOLLARS PER ACRE) USED TO ESTIMATE THE COST OF ACQUIRING LAND IN THE REGION IN 2008 DOLLARS

Type of Land	County						
	Kenosha	Milwaukee	Ozaukee	Racine	Walworth	Washington	Waukesha
Uplands ^a	\$ 10,000	\$ 15,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 12,000	\$ 12,000
Wetlands ^a	2,500	2,500	2,500	2,500	2,500	2,500	2,500
Lake Michigan Shore and Beach ^b	900,000	900,000	900,000	900,000	--	--	--
Inland Lakeshore ^b	500,000	500,000	500,000	500,000	500,000	500,000	500,000

^a Values are based on Wisconsin Department of Natural Resources Land Appraisers' estimates for land zoned as "Upland Conservancy" or "Wetland Conservancy" these are estimates only. Care must be taken because each parcel is unique and land values are site-specific, depending heavily on location and potential use.

^b Each acre of lakeshore property is assumed to contain 100 frontage feet for the purposes of estimating land value. Lakeshore values are based on Wisconsin Department of Natural Resources Land Appraisers' estimates of average values per frontage foot.

Source: SEWRPC..

Table 65

**SUMMARY OF THE ESTIMATED LAND ACQUISITION COSTS FOR ALL LANDS PROPOSED
FOR PURCHASE IN THE NATURAL AREA PLAN AND ITS AMENDMENT IN 2008 DOLLARS**

County	Land Acquisition Category	Responsible Party				Total
		State Government	County Government	Local Government	Private Conservancy Organization	
Kenosha	NA-1 Sites	\$ 59,245,815	--	--	\$ 31,934	\$59,277,749
	NA-2 and NA-3 Sites	56,278,881	\$2,536,402	\$ 924,228	1,473,382	61,212,894
	Critical Species Habitat Sites.....	2,549,398	--	471,241	514,997	3,535,636
	Grassland and Forest Interior Sites	50,000,000	--	--	--	50,000,000
	Geological Area Sites	--	--	--	--	--
	Subtotal	\$168,074,094	\$2,536,402	\$1,395,469	\$2,020,313	\$174,026,279
Milwaukee	NA-1 Sites	--	--	--	\$ 496,261	\$ 496,261
	NA-2 and NA-3 Sites	--	\$3,392,111	\$1,205,328	1,501,105	6,098,543
	Critical Species Habitat Sites.....	--	--	698,449	989,464	1,687,913
	Grassland and Forest Interior Sites	--	--	--	--	--
	Geological Area Sites	\$105,000	--	1,800,000	--	1,905,000
	Subtotal	\$105,000	\$3,392,111	\$3,703,777	\$2,986,830	\$10,187,718
Ozaukee	NA-1 Sites	\$1,149,840	\$ 1,517,068	--	\$707,710	\$ 3,374,618
	NA-2 and NA-3 Sites	854,458	37,556,811	\$2,427,728	24,511,722	65,350,720
	Critical Species Habitat Sites.....	--	--	127,228	58,913,051	59,040,279
	Grassland and Forest Interior Sites	--	--	--	--	--
	Geological Area Sites	2,000,000	100,000	110,000	--	2,210,000
	Subtotal	\$4,004,299	\$39,173,879	\$2,664,956	\$84,132,483	\$129,975,617
Racine	NA-1 Sites	\$ 724,084	\$ 443,908	--	\$ 44,315	\$ 1,212,307
	NA-2 and NA-3 Sites	2,179,555	12,510,533	\$1,297,033	6,436,058	22,423,180
	Critical Species Habitat Sites.....	54,214	2,101,507	240,374	6,874,260	9,270,355
	Grassland and Forest Interior Sites	660,000	--	--	--	660,000
	Geological Area Sites	--	70,000	900,000	120,000	1,090,000
	Subtotal	\$3,617,853	\$15,125,949	\$2,437,407	\$13,474,633	\$34,655,841
Walworth	NA-1 Sites	\$ 927,767	--	--	\$ 532,600	\$ 1,460,367
	NA-2 and NA-3 Sites	6,729,324	\$,021,763	\$1,358,485	11,224,302	23,333,874
	Critical Species Habitat Sites.....	161,034	5,641,770	--	40,283,344	46,086,148
	Grassland and Forest Interior Sites	65,300,000	--	--	--	65,300,000
	Geological Area Sites.....	26,667,500	1,725,000	--	160,000	28,552,500
	Subtotal	\$99,785,624	\$11,388,533	\$1,358,485	\$52,200,246	\$164,732,889
Washington	NA-1 Sites	\$ 1,823,819	--	\$ 458,704	\$ 1,523,679	\$ 3,806,201
	NA-2 and NA-3 Sites	10,909,304	\$15,755,949	5,996,159	10,601,605	43,263,018
	Critical Species Habitat Sites.....	--	--	7,219,622	1,364,571	8,584,193
	Grassland and Forest Interior Sites	--	--	720,000	156,000	876,000
	Geological Area Sites	31,396,000	192,000	564,000	744,000	32,896,000
	Subtotal	\$44,129,123	\$15,947,949	\$14,958,485	\$14,389,855	\$89,425,412
Waukesha	NA-1 Sites	\$ 299,549	\$ 2,663,975	--	--	\$ 2,963,525
	NA-2 and NA-3 Sites	15,731,930	9,309,868	\$ 9,167,449	\$ 7,485,416	41,694,662
	Critical Species Habitat Sites.....	--	532,310	6,553,031	15,865,301	22,950,642
	Grassland and Forest Interior Sites	7,164,000	--	1,476,000	--	8,640,000
	Geological Area Sites	13,248,500	96,500	679,500	578,500	14,603,000
	Subtotal	\$36,443,979	\$12,602,653	\$17,875,980	\$23,929,217	\$90,851,828
Region	NA-1 Sites	\$ 64,170,874	\$ 4,624,952	\$ 458,704	\$ 3,336,499	\$ 72,591,028
	NA-2 and NA-3 Sites	92,683,452	85,083,438	22,376,410	63,233,590	263,376,891
	Critical Species Habitat Sites.....	2,764,646	8,275,587	15,309,945	124,804,988	151,155,166
	Grassland and Forest Interior Sites	123,124,000	--	2,196,000	156,000	125,476,000
	Geological Area Sites	73,417,000	2,183,500	4,053,500	1,602,500	81,256,500
	Total	\$356,159,972	\$100,167,477	\$44,394,559	\$193,133,577	\$693,855,585

Source: SEWRPC.



The Beaver Dam Lake deep marsh, shown above, is a 118 acre natural area of countywide or regional significance located in the Town of Eagle, Waukesha County. This natural area is recommended for acquisition and management by the State of Wisconsin. Currently, the Wisconsin Department of Natural Resources owns and manages 96 acres (81 percent) of the site.

Source: Steve D. Eggers.

APPENDICES

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Appendix A

PROPOSED MODIFICATION OF THE AQUATIC AREA ASSESSMENT SCHEME FOR STREAMS AND LAKES

AQUATIC AREA ASSESSMENT SCHEME FOR STREAMS

There are a number of important factors that affect the quality of stream systems that are recommended to be considered in developing an Aquatic Area Assessment Scheme for Streams. The factors summarized below are primarily based upon peer reviewed research, and examples of selected research are provided where appropriate.

Fish Community Indicators

In addition to the warmwater fish Index of Biological Integrity (IBI) currently used in the existing stream assessment criteria, there have been a cold water IBI and an intermittent IBI developed. These are important indices, because cold water communities and intermittent streams naturally contain much fewer species. These indices account the important fundamental differences among these stream types, which are important, because these types of communities would all rank as very poor using the warmwater IBI.

John Lyons, "Development and Validation of an Index of Biotic Integrity for Coldwater Streams in Wisconsin," *North American Journal of Fisheries Management*, Volume 16, May 1996.

John Lyons, "A fish-Based Index of Biotic Integrity to Assess Intermittent Headwater Streams in Wisconsin, USA," *Environmental Monitoring and Assessment*, Volume 122: Pages 239-258, 2006.

Land use

Proportions of urban and agricultural lands have been associated with water quality and fisheries abundance and diversity. This also includes important parameters such as the amount of connected impervious areas as well as the extent and connectivity of riparian buffers (see riparian buffer guide-Appendix F from SEWRPC Community Assistance Report No. 284, the Pebble Creek Watershed Protection Plan).

L. Wang, J. Lyons, P. Kanehl, and R. Gatti, "Influences of Watershed Land Use on Habitat Quality and Biotic Integrity in Wisconsin Streams," *Fisheries*, Volume 22, 1997.

L. Wang, J. Lyons, P. Kanehl, R. Bannerman, and E. Emmons, "Watershed Urbanization and Changes In Fish Communities In Southeastern Wisconsin Streams," *Journal of the American Water Resources Association*, Volume 36, No. 5, 2000.

L. Wang, J. Lyons, and P. Kanehl, "Effects of Watershed Best Management Practices on Habitat and Fish in Wisconsin's Streams," *Journal of the American Water Resources Association*, Volume 38, No. 3, 2002.

F. Fitzpatrick, B. Scudder, B. Lenz, and D. Sullivan, "Effects of Multi-Scale Environmental Characteristics on Agricultural Stream Biota in Eastern Wisconsin," *Journal of the American Water Resources Association*, Volume 37, No. 6, 2001.

J. Stewart, L. Wang, J. Lyons, J. Horwath, and R. Bannerman, "Influence of Watershed, Riparian Corridor, and Reach Scale Characteristics on Aquatic Biota in Agricultural Watersheds," *Journal of the American Water Resources Association*, Volume 37, No. 6, 2001.

Habitat Rating Schemes

There has been a number of habitat rating schemes (and/or elements of these rating schemes known to be important factors that affect stream quality) that should be considered as part of the Stream criteria assessment. For example, parameters such as degree of incision, bank stability, connectedness to the floodplain, percent channelization, slope, discharge among others should be considered in determining the quality of a stream system.

Wang, Lyons, & Kanehl, Development and Evaluation of a Habitat Rating System for Low-Gradient Wisconsin Streams, *North American Journal of Fisheries Management*, Volume 18: Pages 775-785, 1998.

Rankin, The Qualitative Habitat Evaluation Index (QHEI): Rational, methods, and application. Ohio Environmental Protection Agency, Ecological Assessment Section, Ohio.

Platts, Megahan, & Minshall, Methods for Evaluating Stream, Riparian, and Biotic Conditions, U.S. Department of Agriculture, General Technical Report INT-138, 1983.

Fish Passage Considerations

The presence of dams, culverts, bridges and other structures can form barriers and lead to a reduction in fish and macroinvertebrate abundance and diversity as well as lead to fragmented populations (see passage Criteria, Appendix E from SEWRPC Community Assistance Planning Report 284, the Pebble Creek Watershed Protection Plan). For example, the number of stream crossings has been shown to be a good indicator of instream water quality, with a higher number of crossings associated with a much poorer stream community rating due to storm water runoff etc..

Slawski, Veraldi, Pescitelli, & Pauers, Effects of Tributary Spatial Position, Urbanization, and Multiple Low-Head Dams on Warmwater Fish Community Structure in a Midwestern Stream, *North American Journal Fisheries Management*, Vol 28, 2008.

Temperature-Thermal Regime

Thermal regimes have traditionally been used to distinguish cold and warm water stream communities, however, these are influenced by groundwater discharge losses, stormwater runoff, urbanization, riparian buffer encroachment that frequently result in higher instream temperatures. This has resulted in loss of coldwater fisheries and degradation of warmwater fisheries in Southeastern Wisconsin. Although the *Administrative Code* governing thermal standards is being revised, temperature is an important consideration for fish and aquatic life as well as being sensitive to larger scale global change issues.

AQUATIC AREA ASSESSMENT SCHEME FOR LAKES

Recommend to conform the surface area categories to match those with Chapter NR1 recreational boating standards.

Add mean and maximum depth as well as to distinguish between shallow and deep water lakes and provide an estimate or surrogate for the extent of littoral zone.

Watershed area to surface area ratios should also be considered in a revised scheme.

Appendix B

RECOMMENDED FOREST INTERIOR BIRD HABITAT GUIDELINES FOR SOUTHEASTERN WISCONSIN

While even small forest tracts provide important migratory refugia for forest interior and other stopover migrant birds in southeastern Wisconsin's urban-agricultural landscape, many forest bird species require large (100 acres or more) acreage forest tracts for successful nesting. Factors affecting successful and sustained use of forest tracts by forest interior nesting birds in the southeastern Wisconsin region include the shape and size of the forest tract, amount and location of fragmentation and incursions, its degree of isolation, age structure of the trees, status of adjacent forest, and reforestation. The following guidelines were primarily developed using the recommendations set forth in the Cornell Lab of Ornithology *A Land Manager's Guide to Improving Habitat for Scarlet Tanagers and other Forest-interior Birds* by Rosenberg et al, 1999, and the Illinois Department of Conservation, Natural Heritage Technical Publication *Habitat Establishment, Enhancement and Management for Forest and Grassland Birds in Illinois*, "Management Guidelines for Forest Tracts" by Herkert et al, 1993.

These recommended forest interior bird habitat guidelines for southeastern Wisconsin pertain primarily to forest interior breeding birds. While woodland and other stopover migrant birds will benefit from the recommendations, it is the breeding and nesting species that are the focus of these guidelines.

Forest Tract Shape and Size

The shape and size of forest tracts have a major impact on the use of habitats for successful nesting of forest interior birds. Such habitats are recommended to be at least 100 acres in size and circular to blocky, rather than long and narrow in shape. The circular to blocky shapes help reduce the amount of forest edge. Forest edge contributes to increased predation of nests and young birds and facilitates nest parasitism by the Brown-headed Cowbird (*Molothrus ater*). Thus, long, narrow forest tracts tend to favor predation and nest parasitism.

Evidence from numerous studies show that the adverse effects associated with edge habitat on forest interior birds can extend as far as 330 feet into a forest tract. Accordingly, those portions of the forest tract most beneficial to forest interior nesting birds are at least 330 feet (100 meters) from the edge.

Fragmentation and Incursions

Fragmentation of, and incursions into, a forest tract increase the edge effect. Construction projects such as roadway development or improvements, parking lots, impoundments, transmission lines, sanitary sewer and water system routes, home and out building construction and the associated land clearing, and certain forest management practices contribute to fragmentation of forests. Good quality forest interiors are associated with forest canopies that are at least 70 percent closed. Accordingly, tree cutting/harvesting and development projects within forest tracts associated with forest interior bird habitats should be restricted to single tree selection

management. Group selection cuts as small as one-quarter acre have the potential to increase predation and nest parasitism rates, whereas single tree selection management better mimics natural tree fall dynamics, and may even benefit certain forest interior birds dependent on very small gaps. In addition, regenerative rotation harvests within the forest interior may be designed and implemented so long as they maintain at least 70 percent of the cover canopy.

Necessary incursions into the forest tract should be restricted to the outermost edges of the forest. Although such incursions will decrease total available habitat and increase the proportion of edge habitat, this is preferable to direct alterations of forest interior habitat. The primary goal of the fragmentation and incursions guideline is minimization of changes in forest interior structure and canopy coverage.

Forest Tract Isolation

The sustained success of forest birds tends to be higher in those forest tracts that are connected to, or in relatively close proximity to, other forest tracts. Such juxtaposition facilitates dispersal and the establishment of territories of forest interior birds. Accordingly, forest interior bird habitats associated with other large forest blocks, such as seen in the Kettle Moraine, may be relatively smaller in size than those isolated tracts occurring on an agricultural or urban/suburban land use matrix. However, large continuous blocks of interior forest connected to other surrounding forest tracts should be the management goal.

Forest Age and Structure

Large, uneven-aged forest blocks with a well-developed, unbroken canopy provide the most suitable forest interior bird habitats. Older hardwood forest blocks (80-plus years) should form the core habitat. A well developed and diverse woody sub-canopy and herbaceous understory, combined with coarse woody debris and snag trees, provides important cover, food, and nesting sites.

Status of Adjacent Forests

As noted above, interior nesting bird forest habitats are best connected to, or in close proximity to, other forest tracts. Such forest stand connections and nearby tracts should be managed to limit fragmentation and minimize canopy openings. These associated habitats are best maintained and managed if placed in protective ownership or permanent management easement. In addition, as primary and adjacent forest tracts will be used as food sources, the use of pesticides and other such substances should be carefully managed to ensure that adverse and deleterious impacts to forest interior bird reproduction are avoided.

Reforestation

Reforestation efforts related to forest interior bird nesting habitat involve forest tract infilling and expansion. In the southeastern Wisconsin region, such reforestation should primarily involve the use of native southern wet-mesic to dry forest hardwoods. While oaks seem to be the preferred tree species for certain forest interior birds, other native forest deciduous tree species are certainly suitable. For example, studies show that the most common trees species present in forest tracts occupied by Scarlet tanagers are oaks (80 percent of sites), maples (58 percent of sites), and hickories (35 percent of sites).

Reforestation goals should be designed to enlarge existing forest tracts and be directed at creating forest blocks that have a sustained 70 percent or better canopy cover. While reforestation can be achieved through natural succession, the planting of native hardwoods can accelerate forest and canopy development. Managed stands should include standing dead trees (snags). Management regimes should involve planting a diversity of native hardwoods. This will help reduce the impact of forest pest infestations and provide a variety of food and nesting choices for forest interior birds. Further, such planting strategies should promote different hardwood maturity stages. This latter strategy also contributes a variety of food and nesting choices.

Reforestation management goals for forest interior nesting bird habitat are long term efforts. As such, reforestation efforts to provide habitat need to be coordinated with planned forest loss and fragmentation.

Sources: Rosenberg, K.V., R.W. Rohrbaugh, Jr., S.E. Barker, J.D. Lowe, R.S. Hames, and A.A. Dhondt. 1999. *A Land Managers Guide to Improving habitat for Scarlet Tanagers and other Forest-interior Birds*. The Cornell Lab of Ornithology.

Herkert, J.R., R.E. Szafoni, V.M. Kleen, and J.E. Schwegman. 1993. *Habitat Establishment, Enhancement and Management for Forest and Grassland Birds in Illinois*. Division of Natural Heritage, Illinois Department of Conservation, Natural Heritage Technical Publication #1, Springfield, Illinois. Northern Prairie Wildlife Research Center Online. (Version: 3 August 2006).

Wilson, D.C. 2008. *Managing from a Landscape Perspective: A Guide for Integrating Forest Interior Bird Habitat Considerations and Forest Management Planning in the Driftless Area of the Upper Mississippi River Basin*, (Version 1.1 September 25, 2008). Driftless Area Initiative. Wisconsin Department of Natural Resources.

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Appendix C

NATURAL AREAS INVENTORY FOR THE UPPER MILWAUKEE RIVER WATERSHED IN SHEBOYGAN COUNTY, WISCONSIN

INTRODUCTION

On March 13, 2007, the Southeastern Wisconsin Regional Planning Commission entered into an agreement with the Sheboygan County Board of Supervisors to conduct an inventory of the remaining natural areas and critical species habitat sites located within the Upper Milwaukee River watershed within Sheboygan County, Wisconsin. Specifically, the Commission was asked to identify, rank, and map those natural areas and critical species habitats. The requested inventory and categorization will be submitted to the Sheboygan County Planning and Resources Department for consideration in their park and open space planning efforts. In addition, the inventory and categorization of the natural areas and critical species habitats for the Sheboygan County study areas will be appended to an Amendment to SEWRPC Planning Report No. 42, A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin.

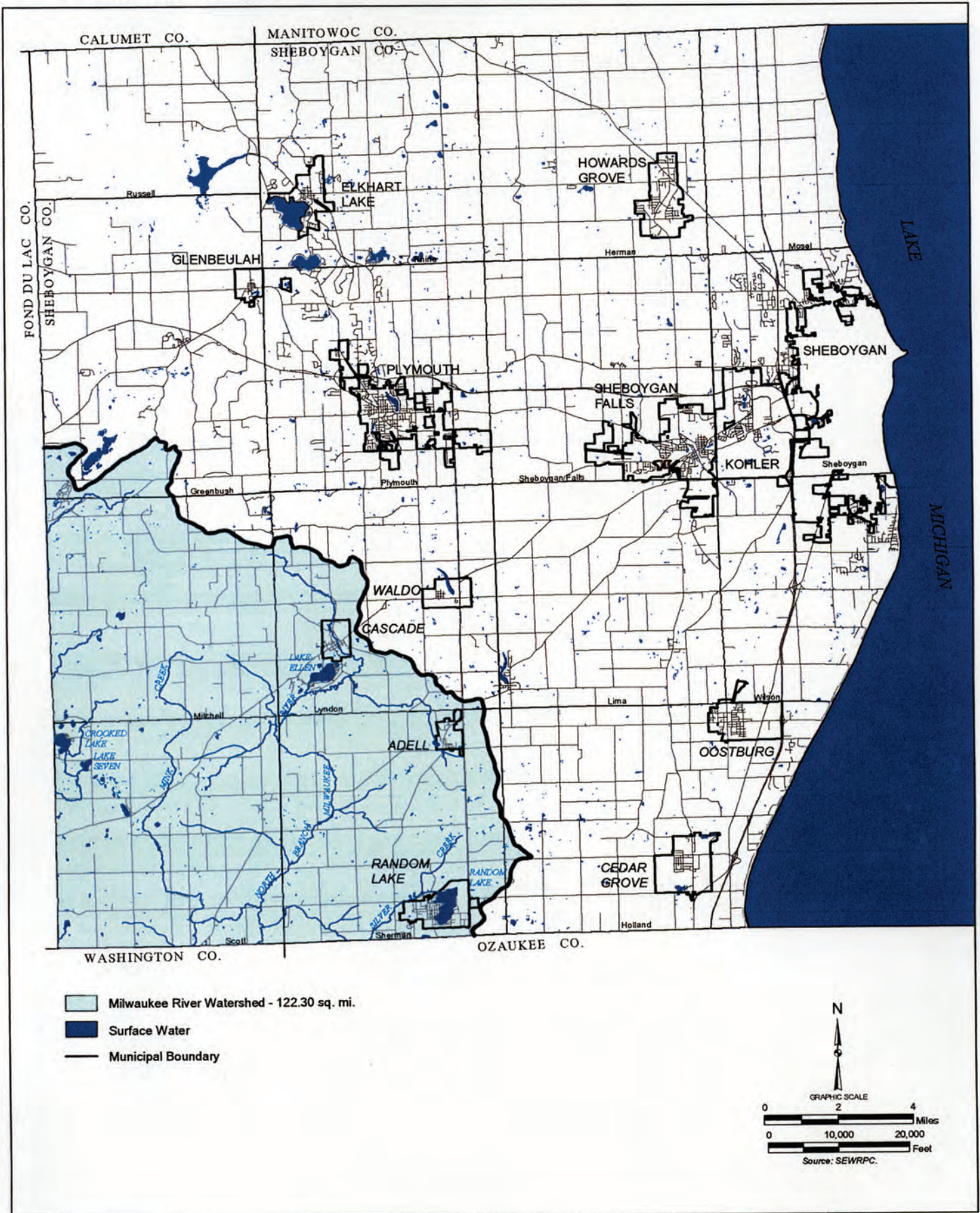
THE STUDY AREA

The Upper Milwaukee River Watershed study area, as shown on Map C-1, is an irregularly shaped drainage basin located in southwestern Sheboygan County. The study area comprises nearly 123 square miles, or about 18 percent of the entire Milwaukee River watershed and about 24 square miles of Sheboygan County. The study area is subject to a semi-humid mid-continental type climate characterized by extremes in weather typical of its interior position on the North American Continent. The topography of the watershed is controlled by the bedrock and overlying glacial deposits which form an irregular surface characterized by a complex system of moraines, kames, kettle holes, drainage ways and poorly drained wetlands. The highest surface elevation within the entire watershed, 1,311 feet above the National Geodetic Vertical Datum (1929), is located at Parnell Lookout Tower in the Town of Mitchell, Sheboygan County.

SEWRPC PLANNING REPORT NO. 42, A REGIONAL NATURAL AREAS AND CRITICAL SPECIES HABITAT PROTECTION AND MANAGEMENT PLAN FOR SOUTHEASTERN WISCONSIN

The importance of natural areas and geological sites, the maintenance of regional biological diversity, and the principles of landscape ecology are discussed on pages 21 through 33 in SEWRPC Planning Report No. 42. Copies of pertinent sections of this report are appended to this report.

SURFACE WATER IN THE PORTION OF THE MILWAUKEE RIVER WATERSHED WITHIN SHEBOYGAN COUNTY



NATURAL AREA AND CRITICAL SPECIES HABITAT EVALUATION METHODOLOGY

The methodology used to evaluate the natural areas, critical species habitats, and geological sites is described on pages 46 through 51 in SEWRPC Planning Report No. 42. Tables C-1 and C-2 describe the Wisconsin Natural Heritage Inventory ranks and the SEWRPC Natural Area Assessment Scheme, respectively.

SCHEME OF PRESENTATION

The major findings of the natural areas and critical species habitat inventory for the Upper Milwaukee River watershed in Sheboygan County are documented and presented in this Memorandum. It presents an inventory of the most significant natural areas and geological areas remaining in the Upper Milwaukee River watershed study area, and relates them to delineated environmental corridors in Sheboygan County.

EXISTING NATURAL AREAS AND CRITICAL SPECIES HABITATS IN THE UPPER MILWAUKEE RIVER WATERSHED

Sources of Information

Information pertaining to the occurrence of endangered, threatened, and special concern plant species within the Upper Milwaukee River watershed was obtained from the Wisconsin State Herbarium web site. This enabled the Commission staff to develop a list of critical plant species that had previously been collected within the project area (Table C-3). Detailed information about four designated State Natural Areas in the watershed was obtained from the appropriate web page of the Wisconsin Department of Natural Resources. Known occurrences of rare species and natural communities that have been recorded in the Upper Milwaukee River watershed have been compiled by Wisconsin Natural Heritage Inventory (NHI). The NHI contains information on the location, status, distribution, and condition of rare species and high-quality natural communities throughout the State of Wisconsin, including endangered and threatened species (Tables C-4 through C-8). The Commission staff was granted access to NHI data pertaining to the project area, which was then incorporated into this report.

Environmental Corridors in the Upper Milwaukee River Watershed

One of the most important tasks completed under the planning program for the watershed has been the identification and delineation of those areas in the watershed in which concentrations of natural resource elements occur. It was recognized that preservation of the natural resource elements, especially where these elements are concentrated in identifiable geographic areas, was essential both to the maintenance of the overall environmental quality of the watershed and to the continued provision of the amenities required to maintain the quality of life for the county's resident population. The delineation of these natural resource and natural resource-related elements on maps results in a concentration of such elements in an essentially linear pattern of relatively narrow, elongated areas which have been termed "environmental corridors" by the Commission. Such corridors contain the best remaining elements of the natural resource base, including wetlands, woodlands, surface-water areas and associated undeveloped shorelands and floodplains, and wildlife areas. The preservation of these corridors is essential to the maintenance of the overall quality of the environment within the watershed, to the maintenance of its natural beauty, and to the provision of adequate opportunities for recreational, educational, and scientific pursuits.

"Primary" and "secondary" environmental corridors have been identified by the Commission. Primary environmental corridors include a wide variety of the most important natural resource and resource-related elements and are at least 400 acres in size, two miles long, and 200 feet wide. As shown on Map C-2, primary environmental corridors in the project area generally lie along major stream valleys, around major lakes, and in the Kettle Moraine area. They contain almost all of the best remaining wetlands, woodlands, and wildlife habitat areas in the watershed, as well as most of the major lakes and streams and associated floodlands. These corridors

Table C-1

WISCONSIN'S NATURAL HERITAGE INVENTORY RANKS

Global and State element ranks are listed and defined below.
<p>Global Element Ranks</p> <p>G1=Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction</p> <p>G2=Imperiled globally because of rarity (six to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range</p> <p>G3=Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the east) or because of other factors making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 to 100</p> <p>G4=Apparently globally secure, although it may be quite rare in part of its range, especially at the periphery</p> <p>G5=Demonstrably secure globally, although it may be quite rare in parts of its range, especially at the periphery</p> <p>GH=Of historical occurrence throughout its range, i.e., formerly part of the established biota, with the expectation that it may be rediscovered (e.g., Bachman's warbler)</p> <p>GU=Possibly in peril range-wide, but its status is uncertain. More information is needed. A question mark is used to express uncertainty (e.g., G2?) or a range is used to delineate the limits of uncertainty (e.g., G2-G3)</p> <p>GX=Believed to be extinct throughout its range (e.g., passenger pigeon) with virtually no likelihood that it will be rediscovered</p>
<p>State Element Ranks</p> <p>S1=Critically imperiled in the State because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extirpation from the State</p> <p>S2=Imperiled in the State because of rarity (six to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extirpation from the State</p> <p>S3=Rare or uncommon in the State (21 to 100 occurrences)</p> <p>S4=Apparently secure in the State, with many occurrences</p> <p>S5=Demonstrably secure in the State and essentially ineradicable under present conditions</p> <p>SA=Accidental in the State, including species (usually birds or butterflies) recorded once or twice or only at very great intervals, hundreds or even thousands of miles outside their usual range; a few of these species may have even bred on one or two occasions they were recorded (e.g., European strays or western birds on the East Coast and vice versa)</p> <p>SE=An exotic established in the State; may be native elsewhere in North America (e.g., European starling)</p> <p>SH=Of historical occurrence in the State, perhaps having not been verified in the past 20 years, and suspected to be still extant. Naturally, an element would be ranked SH without such a 20-year delay if the only known occurrence in a state were destroyed or if it had been extensively and unsuccessfully looked for. Upon verification of an extant occurrence, SH-ranked elements would typically receive an S1 rank. The SH rank should be reserved for elements for which some effort has been made to relocate occurrences, rather than simply assigning it to all elements not known from verified extant occurrences</p> <p>SN=Regularly occurring, usually migratory and typically non-breeding species for which no significant or effective habitat conservation measures can be taken in the State. This category includes: migratory birds, bats, sea turtles, and cetaceans which do not breed in a given state but pass through twice a year or may remain in the winter (or, in a few cases, the summer), and certain lepidoptera which regularly migrate to a state where they reproduce, but then completely die out every year with no return migration. Species in this category are so widely and unreliably distributed during migration and in winter that no small set of sites could be set aside with the hope of significantly furthering their conservation. Other non-breeding, highly globally-ranked species (such as the bald eagle, whooping crane, and some seal species) which regularly spend some portion of the year at definite localities (and therefore have a valid conservation need in the State) should NOT be ranked SN, but rather S1, S2, etc. This rank is not for "lost causes" which in someone's opinion cannot be saved</p> <p>SR=Reported from the State, but without persuasive documentation which would provide a basis for either accepting or rejecting the report. Some of these are very recent discoveries for which the program has not yet received firsthand information; others are documented only through old, obscure reports that are hard to dismiss because the habitat is now destroyed</p> <p>SRF=Reported falsely (in error) from the State but this error is persisting in the literature</p> <p>SU=Possibly in peril in the State, but its status is uncertain. More information is needed. A question mark is used to express uncertainty (e.g., G2?) or a range is used to delineate the limits of uncertainty (e.g., S2-S3)</p> <p>SX=Apparently extirpated from the State</p>

Source: Wisconsin Department of Natural Resources.

also contain many of the best remaining potential park sites. The primary environmental corridors are, in effect, a composite of the best remaining elements of the natural resource base and have immeasurable environmental and recreational value.

Secondary environmental corridors are typically located along small perennial and intermittent streams (Map C-2). They also contain a variety of resource elements, often being remnants of primary environmental corridors that have been partially converted to intensive urban or agricultural use. Secondary environmental corridors facilitate surface water drainage and maintain pockets of natural resource features. Such corridors, while not as significant as the primary environmental corridors in terms of overall resource values, should also be considered for preservation as the process of development proceeds.

Table C-2

SEWRPC NATURAL AREA ASSESSMENT SCHEME

<p>Natural Area Quality/Human Impact (7)</p> <p>5: Near-natural conditions; original structure intact; no apparent human disturbance</p> <p>4: Very minor human influence or, if more severe, human influence restricted in extent of area affected</p> <p>3: Semi-natural conditions; at least one type of obvious disturbance in past; some effect on structure; mostly native species present; system is recovering</p> <p>2: One or more types of disturbance is obvious; community integrity threatened; structure being lost; natural area becoming dominated by exotics and aggressive native species</p> <p>1: Human influence pervades an essentially artificial community; loss of original biotic community structure; few native species characteristic of undisturbed habitats present</p>
<p>Size and Buffer Lands (to be applied to forested areas only) (5)</p> <p>5: Greatly exceeds minimum habitat criteria size; excellent buffer area present</p> <p>4: Adequate habitat size and buffer area</p> <p>2: Adequate habitat size, inadequate buffer area</p> <p>1: Inadequate habitat size, adequate buffer area</p> <p>0: Both habitat size and buffer area inadequate</p>
<p>Species Diversity (5)</p> <p>5: High</p> <p>3: Good/moderate</p> <p>1: Low</p>
<p>Community Significance (5)</p> <p>5: Low-acreage occurrence in presettlement vegetation Low-acreage occurrence in present natural areas system Nearly complete conversion of type Restricted occurrence; a localized or relict community Only known location of a non-biological feature (such as a unique geological formation or an archaeological site)</p> <p>3: Moderate amount in presettlement vegetation Moderate acreage presently protected Partial conversion of type Significant non-biological feature(s)</p> <p>1: Frequent to abundant in presettlement landscape Common in present landscape Type has increased since settlement Adequate representation of type within system</p>
<p>Species Significance (3)</p> <p>5: Presence of nationally threatened or endangered species Good populations of State threatened or endangered species</p> <p>3: Presence of State threatened or endangered species Good populations of State rare species Many species at limits of their ranges</p> <p>1: Native species present are those characteristic of regional flora, including some uncommon ones</p> <p>0: No uncommon, rare, endangered, or threatened species; species present are common natives or exotics</p>
<p>Mature Community (to be applied to forested areas only) (2)</p> <p>5: Mature community, essentially a remnant of the presettlement vegetation</p> <p>3: Mid-successional community, possibly with some small, older patches</p> <p>1: Pioneer community</p>

Source: SEWRPC.

Table C-3

CRITICAL PLANT SPECIES HISTORICALLY KNOWN TO OCCUR IN THE UPPER MILWAUKEE RIVER WATERSHED IN SHEBOYGAN COUNTY

Critical Plant Species of the Milwaukee River Watershed in Sheboygan County		
Endangered	Threatened	Special Concern
	<i>Aster furcatus</i>	<i>Cardamine pratensis</i>
		<i>Cypripedium parviflorum var. makasin</i>
		<i>Cypripedium parviflorum var. pubescens</i>
		<i>Deschampsia cespitosa</i>
		<i>Hydrastis canadensis</i>
		<i>Juglans cinerea</i>
		<i>Lithospermum latifolium</i>
		<i>Panax quinquefolia</i>
		<i>Polystichum acrosticoides</i>
		<i>Verbena simplex</i>

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

Table C-4

LOCATIONS OF CRITICAL FISH SPECIES IN SURFACE WATERS OF THE UPPER MILWAUKEE RIVER WATERSHED IN SHEBOYGAN COUNTY

Species	Status	Surface Water(s)
Striped shiner	Endangered	Mink Creek
Greater redhorse	Threatened	North Branch Milwaukee River
Pugnose shiner	Threatened	Crooked Lake
Lake chubsucker	Special concern	Crooked Lake
Least darter	Special concern	Crooked Lake Outlet Creek
Banded killifish	Special concern	Random Lake

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

Table C-5

LOCATIONS OF MUSSEL SPECIES IN SURFACE WATERS OF THE UPPER MILWAUKEE RIVER WATERSHED IN SHEBOYGAN COUNTY

Species	Scientific Name	Status	Surface Water(s)
Slipper Shell	<i>Alasmidonta calceolus</i>	Threatened	Mink Creek North Branch Milwaukee River
Ohio River Pig Toe	<i>Pleurobema cordatum</i>		North Branch Milwaukee River
Creek Heel Splitter	<i>Lasmigona compressa</i>		North Branch Milwaukee River
Fluted Shell	<i>Lasmigona costata</i>		Silver Creek North Branch Milwaukee River
Spike	<i>Elliptio dilatatus</i>		North Branch Milwaukee River
Cylindrical Paper Shell	<i>Anodontoides ferussacianus</i>		Mink Creek North Branch Milwaukee River
Wabash Pig Toe	<i>Fusconaia flava</i>		North Branch Milwaukee River
Floater	<i>Anodonta grandis</i>		North Branch Milwaukee River
Fat Mucket	<i>Lampsilis radiata siliquoidea</i>		North Branch Milwaukee River

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

Table C-6

**CRITICAL BIRD SPECIES HISTORICALLY KNOWN TO OCCUR IN
THE UPPER MILWAUKEE RIVER WATERSHED IN SHEBOYGAN COUNTY**

Species	Scientific Name	Status
Peregrine falcon	<i>Falco peregrinus</i>	Endangered
Foster's tern	<i>Sterna fosteri</i>	Endangered
Caspian tern	<i>Sterna caspia</i>	Endangered
Great egret	<i>Ardea alba</i>	Threatened
Osprey	<i>Pandion haliaetus</i>	Threatened
Red-shouldered hawk	<i>Buteo lineatus</i>	Threatened
Acadian flycatcher	<i>Empidonax virescens</i>	Threatened
Bell's vireo	<i>Vireo bellii</i>	Threatened
Cerulean warbler	<i>Dendroica cerulea</i>	Threatened
Kentucky warbler	<i>Oporornis formosus</i>	Threatened
Hooded warbler	<i>Wilsonia citrina</i>	Threatened
Henslow's sparrow	<i>Ammodramus henslowii</i>	Threatened
American bittern	<i>Botaurus lentiginosus</i>	Special Concern
Least bittern	<i>Ixobrychus exilis</i>	Special Concern
Black-crowned night-heron	<i>Nycticorax nycticorax</i>	Special Concern
American black duck	<i>Anas rubripes</i>	Special Concern
Northern pintail	<i>Anas acuta</i>	Special Concern
Redhead	<i>Aythya americana</i>	Special Concern
Common goldeneye	<i>Bucephala clangula</i>	Special Concern
Bald eagle	<i>Haliaeetus leucocephalus</i>	Special Concern
Goshawk	<i>Accipiter gentilis</i>	Special Concern
Northern bobwhite	<i>Colinus virginianus</i>	Special Concern
King rail	<i>Rallus elegans</i>	Special Concern
Bonaparte's gull	<i>Larus philadelphia</i>	Special Concern
Black tern	<i>Chlidonias niger</i>	Special Concern
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	Special Concern
Long-eared owl	<i>Asio otus</i>	Special Concern
Short-eared owl	<i>Asio flammeus</i>	Special Concern
Whip-poor-will	<i>Caprimulgus vociferus</i>	Special Concern
Olive-sided flycatcher	<i>Contopus cooperi</i>	Special Concern
Swainson's thrush	<i>Catharus ustulatus</i>	Special Concern
Cape May warbler	<i>Dendroica tigrina</i>	Special Concern
Black-throated blue warbler	<i>Dendroica caerulescens</i>	Special Concern
Louisiana waterthrush	<i>Seiurus motacilla</i>	Special Concern
Connecticut warbler	<i>Oporornis agilis</i>	Special Concern
Canada warbler	<i>Wilsonia canadensis</i>	Special Concern
Dickcissil	<i>Spiza americana</i>	Special Concern
Western meadowlark	<i>Sturnella neglecta</i>	Special Concern

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

Table C-7

OTHER CRITICAL SPECIES HISTORICALLY KNOWN TO OCCUR IN THE UPPER MILWAUKEE RIVER WATERSHED IN SHEBOYGAN COUNTY

Species	Scientific Name	Status
Butler's garter snake	<i>Thamnophis butleri</i>	Threatened
Blanding's turtle	<i>Emydoidea blandingi</i>	Threatened
Unicorn clubtail dragonfly	<i>Arigomphus villosipes</i>	Special Concern

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

Table C-8

TROUT STREAMS OF THE UPPER MILWAUKEE RIVER WATERSHED IN SHEBOYGAN COUNTY

Surface Water	Class	Stream Reach
Nichols Creek	Class 1	To Hwy 28 in Cascade
Gooseville Creek	Class 2	South branch only
North Branch Gooseville Creek	Class 1	North branch and below junction to Milwaukee River
Melius Creek	Class 2	All
Chambers Creek	Class 1	To CTH W
Watercress Creek	Class 2	All

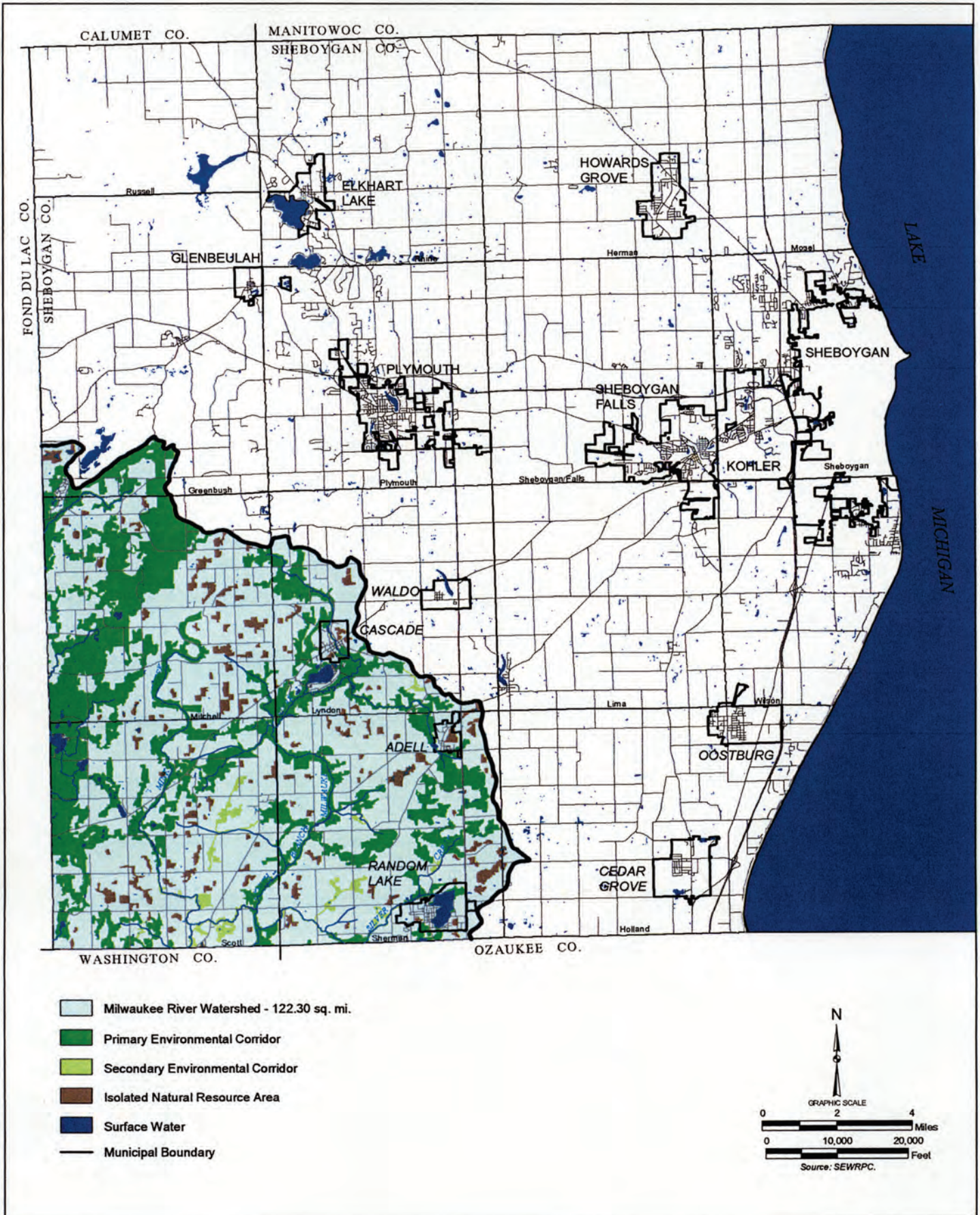
Source: Wisconsin Natural Heritage Inventory, Wisconsin Department of Natural Resources Working List, and SEWRPC.

In addition to the primary and secondary environmental corridors, other, smaller pockets of natural resource base elements, five acres in size or larger, exist within the project area. Termed “isolated natural resource areas,” these pockets are isolated from the environmental corridors by development and agricultural uses (Map C-2). Even though they are separated from the environmental corridor network, these areas have important natural resource value. Since isolated natural resource areas may represent the only wildlife habitat in an area, provide good locations for local parks and nature study areas, and lend unique aesthetic character and natural diversity to an area, these uses should be protected and preserved to the extent practicable as the process of urban development proceeds. These “isolated natural resource areas” should not be confused with Designated State Natural Areas, or Natural Areas of Statewide, Regional, and Local Importance (NA-1, NA-2, or NA-3 areas).

Significant Geological Features of the Upper Milwaukee River Watershed

Glaciation has largely determined the physiography and topography, as well as the soils of the project area. In terms of influence on present-day physiography, the most important factor has been the last of the four major stages of continental glaciation, the later Wisconsinan stage, which is believed to have ended in the State about 11,000 years ago. The dominant physiographic and topographic feature is the Kettle Moraine, an interlobate glacial deposit, or moraine, formed between the Green Bay and Lake Michigan lobes of the continental glacier which moved in a generally southerly direction from its origin in what is now Canada. The remainder of the watershed is covered by a variety of glacial landforms and features, including rolling landscapes of heterogeneous material deposited beneath the ice; end moraines, consisting of material deposited at the forward margins of the ice sheet; lacustrine basins, or former lake sites; and outwash plains, flat areas near the foot of moraine slopes where fine gravel and sand settled out of ponded melt waters in temporary lakes and in valleys.

ENVIRONMENTAL CORRIDORS IN THE PORTION OF THE MILWAUKEE RIVER WATERSHED WITHIN SHEBOYGAN COUNTY



The Northern Kettle Interlobate Moraine contains a variety of glacial features, some of which were among the first in the country to be well-described. These ‘textbook’ features, which today remain among the best in the world, include:

- Eskers: sinuous mounds of coarse gravel above the surrounding topography where a melt water stream in or on the glacier collected a bed full of gravel standing more or less intact as the ice melted away. Parnell Esker is a notable example.
- Moulin kames: detached conical mounds of coarse gravel and sand that piled up where surface melt water swirled down crevices and deposited its rock load at the bottom. Some of the best developed and displayed Moulin kames anywhere in the world include Johnson Hill, Connor Hill, McMullen Hill, and Garriety Hill, in addition to numerous smaller kames.
- Kettle holes: depressions formed by the melting of buried blocks of ice so that the land surface settled into more or less rounded, undrained depressions, the largest and deepest of these forming lakes. An outstanding example of a glacial kettle hole, the Greenbush Kettle is a symmetrical deep depression visible from Kettle Moraine Drive.

The existing Geological Sites within the Sheboygan County portion of the Upper Milwaukee River watershed are shown on Map C-3 and described in Table C-9.

Natural Vegetation of the Upper Milwaukee River Watershed

A climatic/floristic tension zone divides the State into two distinct areas, running basically southeast—northwest: the northern hardwood—conifer forest floristic province and the southern prairie—oak forest floristic province, each with their associated soils. Many southern plant species occur only rarely in the northern province, and many northern species only rarely occur in the southern province. The area where these species, and the two floristic provinces, overlap is referred to as the tension zone. Within this tension zone there is a mixture of both northern and southern plant communities and species. Most of Sheboygan County is located north of the tension zone. In the project area, this transition area, or ecotone, is oriented nearly due north-south, so that the northern province, nearer to Lake Michigan, is to the east, while the western portion is within the tension zone.

Analysis of the presettlement vegetation map of Wisconsin by Robert Finley,^a based on the records of the U.S. Public Land Survey carried out in 1836, indicates that the uplands were covered by southern mesic and dry-mesic forest, dominated by such mesophytic species as sugar and red maples, basswood, white ash, and red and white oaks. Beech was more of a dominant tree in the eastern half of the project area, indicating somewhat more mesic forest conditions. The ground was typically covered by a rich flora, especially in the spring. The western portion of the project area was somewhat drier, with oaks tending to dominate the drier ridges of the kettle moraine.

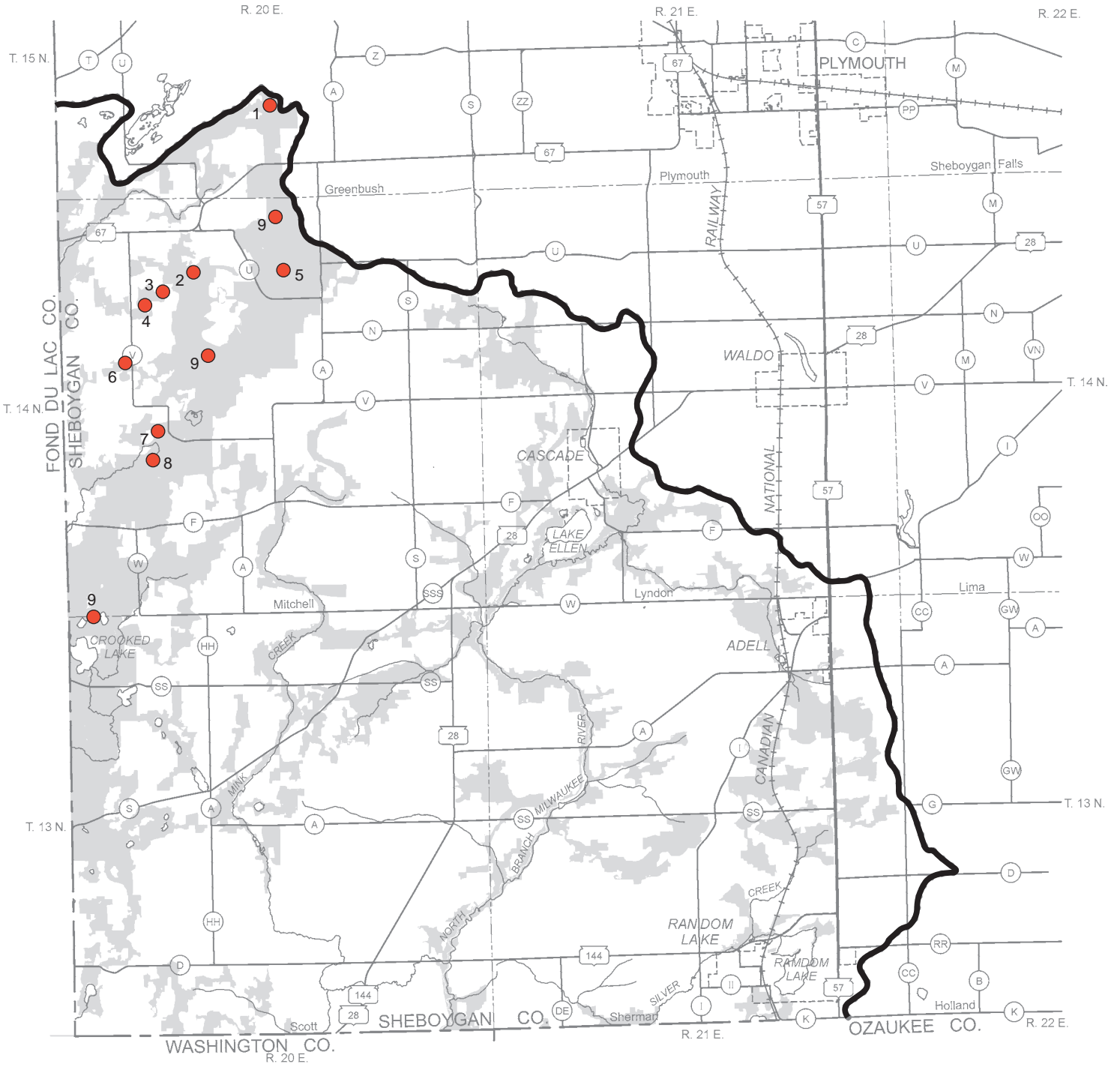
Within this upland forest matrix were scattered forested lowlands of swamp conifers such as white cedar, tamarack, and black spruce, with a mixture of such lowland hardwoods as green and black ash, American elm, red and silver maples, and yellow birch. In general, the lowlands were probably similar to present-day vegetation in terms of their floristic compositions and areal extent. However, while it is impossible to determine the exact boundaries of the various lowland vegetation types, they probably included the following categories:

- Alder thicket: This wetland community is dominated by thick stands of tall shrubs, especially speckled alder, but also including red-osier dogwood, nannyberry, highbush-cranberry, currants, and willows. It is typically found along streams and around lakes.

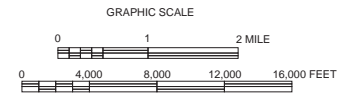
^aR.W. Finley, “Original vegetation cover of Wisconsin,” *USDA, forest Service, North Central Forest Experiment Station, St. Paul, MN, 1976.map*

Map C-3

SIGNIFICANT GEOLOGICAL AREAS IN THE UPPER MILWAUKEE RIVER WATERSHED, SHEBOYGAN COUNTY: 2007



- LOCATION OF SIGNIFICANT GEOLOGICAL SITE
- 8** REFERENCE NUMBER (SEE TABLE C-9)
- PRIMARY ENVIRONMENTAL CORRIDORS



Source: Wisconsin Department of Natural Resources; Dr. Joanne Kluessendorf, Director, Weis Earth Science Museum, UW--Fox Valley; and SEWRPC.

Table C-9

SIGNIFICANT GEOLOGICAL AREAS IN THE UPPER MILWAUKEE RIVER WATERSHED, SHEBOYGAN COUNTY: 2007

Map C-3 Reference Number	Area Name	Classification Code ^a	Location	Ownership	Description and Comments
1	Greenbush Kettle	--	T15N, R20E Section 27 Town of Greenbush	Department of Natural Resources	A nearly symmetrical deep circular depression; an outstanding example of a glacial hole
2	Johnson Hill	SNA	T14N, R20E Section 8 Town of Mitchell	Department of Natural Resources	A moulin kame
3	Connor Hill	--	T14N, R20E Section 8 Town of Mitchell	Department of Natural Resources and private	A moulin kame
4	Garriety Hill	--	T14N, R20E Section 8 Town of Mitchell	Department of Natural Resources	A moulin kame
5	Lake Michigan Lobe End Moraine	--	T14N, R20E Section 10 Town of Mitchell	Department of Natural Resources	Topped by Parnell Observation Tower
6	McMullen Hill	--	T14N, R20E Section 18 Town of Mitchell	Private	A moulin kame
7	Parnell Esker	--	T14N, R20E Sections 16, 17, 20 Town of Mitchell	Department of Natural Resources	Running generally northeast—southwest for about four miles, between 5 and 35 feet high; a geologic feature known worldwide; extensively used for education
8	Butler Lake	SNA	T14N, R20E Section 20 Town of Mitchell	Department of Natural Resources	A small kettle lake occupying a depression in glacial outwash
9	Kettle Moraine Interlobate Moraine	--	Western portion of project area	Department of Natural Resources and private	Interlobate moraine consisting of a complex system of irregular, knobby ridges, trending northeast—southwest across the western portion of the project area

^a"SNA" refers to State Natural Area.

Source: Wisconsin Department of Natural Resources; Dr. Joanne Kluessendorf, Director, Weis Earth Science Museum, UW—Fox Valley; and SEWRPC.

- Emergent marsh: These open, marsh, lake, riverine, and estuarine communities with permanent standing water are dominated by robust emergent macrophytes, in pure stands or in various mixtures, including cattails, several species of bulrushes, bur-reeds, giant reed grass, and wild rice.
- Ephemeral pond: These small isolated ponds, with impeded drainage, often occur in a forest landscape. They typically dry out by mid-summer. Such ponds provide critical breeding habitat for invertebrates and many amphibians.
- Floodplain forest: This lowland hardwood community is typically found along large rivers that flood periodically. Dominant trees include silver maple, green ash, hackberry, swamp white oak, elms, and cottonwood.
- Northern hardwood swamp: These northern deciduous forested wetlands occur along lakes and streams, or in poorly drained insular basins. Black ash is a typical dominant tree; other common species include red maple, yellow birch, and American elm. Speckled alder may be locally common in the shrub layer. The herbaceous flora is often diverse.

- Northern wet forest: These conifer swamps are dominated by black spruce and tamarack. The somewhat more acid black spruce swamps are characterized by a deep, continuous carpet of sphagnum mosses, and the presence of various herbs and ericaceous shrubs adapted to saturated substrates and high acidity. The less acid tamarack swamps usually include a number of hardwood tree species, such as red maple, paper birch, and black ash, and there is often a well-developed tall shrub layer, featuring such species as speckled alder, mountain holly, winterberry, and alder buckthorn.
- Northern wet-mesic forest: This wetland forest type, dominated by white cedar, is found on rich, neutral to alkaline peats and mucks. The understory is rich in mosses and herbs. A number of rare plants, such as several orchid species, occur more frequently in cedar swamps than in any other habitat.
- Shrub-carr: Tall shrubs, such as red-osier and silky dogwoods, meadowsweet, and various willows dominate this wetland community type. Canada bluejoint grass is frequently very common. It often occurs in transitional zones around lakes and ponds, on the margins of river floodplains, and in glacial lakebeds.
- Southern hardwood swamp: This deciduous lowland forest type occurs in insular basins with seasonally high water tables. Dominant trees include green and black ashes, red and silver maples, and American elm. Vines are particularly characteristic. Undisturbed sites feature a rich spring flora.
- Southern sedge meadow: This open wetland community is dominated by tussock sedge and Canada bluejoint grass. It often occurs in complexes with other community types, such as shrub-carr and emergent marsh.
- Southern tamarack swamp (rich): Formerly referred to as Tamarack Fen, this forested wetland is similar to the Northern Wet Forest, but is less acidic. Tamarack is the dominant tree. The understory is diverse and complex; poison sumac is often very common. Groundwater seepages influence most stands.
- Submergent marsh: This herbaceous community of aquatic macrophytes occurs in lakes, ponds, and streams.

State Natural Areas within the Upper Milwaukee River Watershed

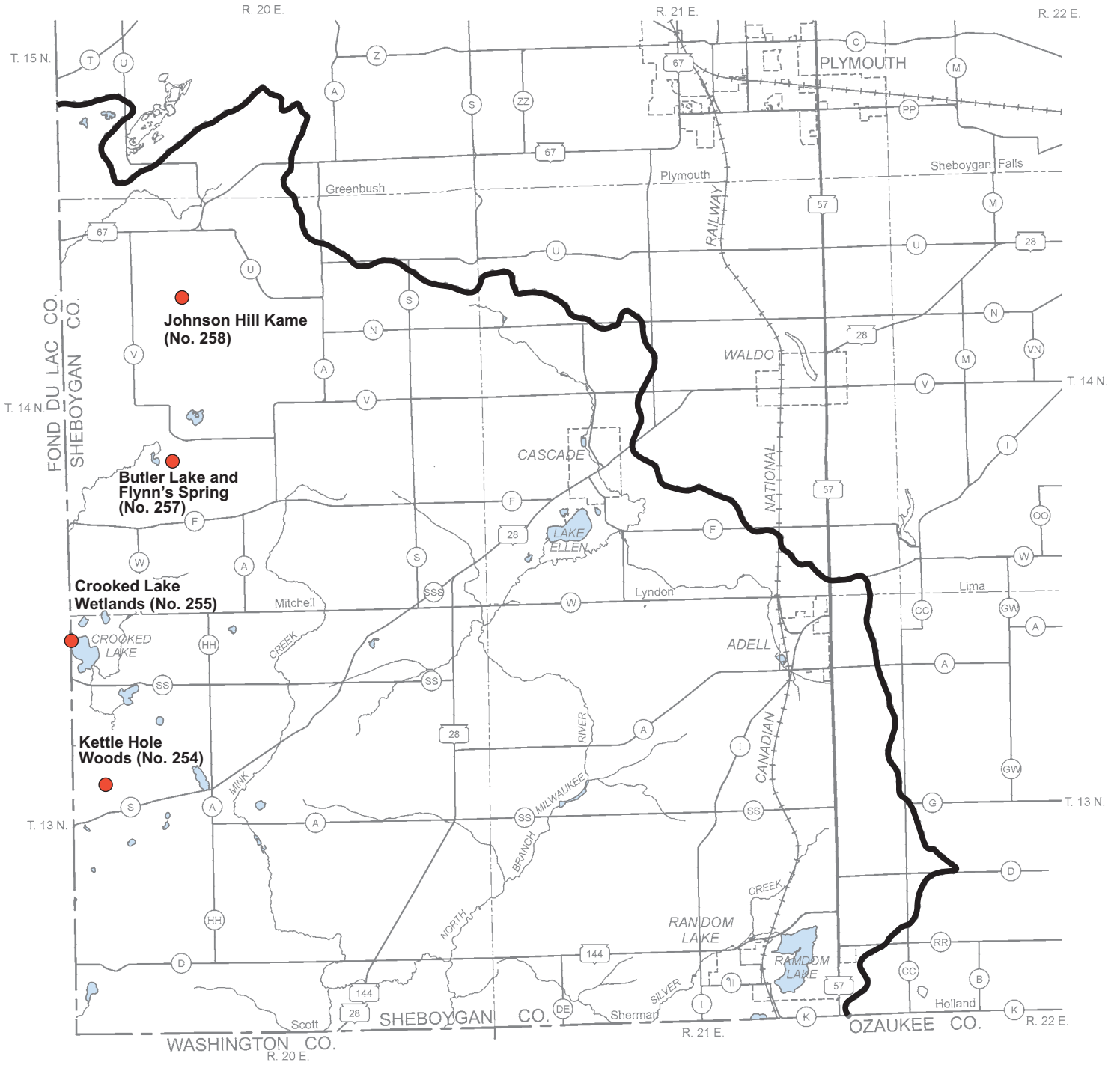
State Natural Areas (SNAs) protect outstanding examples of Wisconsin's native landscape of natural communities, significant geological formations, and archaeological sites. SNAs harbor natural features essentially unaltered by human-caused disturbance, or that have substantially recovered from disturbance over time. They are formally protected under State law to be devoted to scientific research, the teaching of conservation biology, and preservation of their natural values and genetic diversity for future generations. They are not intended for intensive recreational use as are parks and other recreational facilities. They are valuable for research and educational purposes, the preservation of genetic and biological diversity, and for providing benchmarks for determining the effect of use on managed lands. They also provide some of the last refuge for rare plants and animals.

Of Wisconsin's 418 State Natural Areas, four are located within the Upper Milwaukee River Watershed in Sheboygan County (Map C-4).

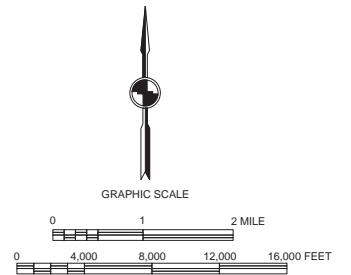
- Kettle Hole Woods (SNA No. 254) is an isolated hill forested with mature southern mesic and dry-mesic hardwoods, with ephemeral ponds scattered throughout. The canopy of large trees is dominated by red oak and sugar maple, with such species as beech, basswood, white ash, white oak, and yellowbud hickory as associates. The shrub and ground layers are rich and diverse. This is an important area for forest-nesting birds, including the State-designated Threatened red-shouldered hawk and Acadian flycatcher, the Special Concern yellow-billed cuckoo, and a variety of other native species. The ponds are known to provide habitat for a large number of amphibians.
- Crooked Lake Wetlands (SNA No. 255) is located in both Fond du Lac and Sheboygan counties. The diverse complex of natural communities includes southern sedge meadow, northern wet forest, shrub-carr, open bog, shallow seepage lakes, and upland southern dry-mesic forest. Crooked Lake itself is one of the

Map C-4

DESIGNATED STATE NATURAL AREAS IN THE UPPER MILWAUKEE RIVER WATERSHED, SHEBOYGAN COUNTY: 2007



Source: SEWRPC.



larger natural lakes in Sheboygan County. The inlet to the lake provides spawning ground for northern pike. The unnamed lake has supported a large colony of breeding black terns. The entire SNA provides habitat for a large number of native bird species, including waterfowl, various warblers, veery, woodcock, and yellow-billed cuckoo.

- Butler Lake and Flynn's Spring (SNA No. 257) features a shallow marl-bottomed lake surrounded by sedge meadow. Flynn's Spring is a small spring brook that flows into the south end of the lake. Adjacent to the lake is Parnell Esker. Two rare invertebrate species—the unicorn clubtail dragonfly (*Arigomphus villosipes*) and the swamp spreadwing (*Lestes vigilax*)—are known to be present at this site.
- Johnson Hill Kame (SNA No. 258) is a fine example of a Moulin kame, a nearly conical hill of sand and gravel formed by glacial action. It is surrounded by good quality southern and northern dry-mesic forest. Dominant trees include red oak, sugar maple, beech, basswood, white oak, and ironwood. The ground flora is rich and diverse.

Field Inventory Procedures

Because of the limited time allowed the Commission staff to conduct field surveys, and because of restrictions due to potential trespassing issues, actual on-the-ground field inventories were limited to lands under public ownership. Evaluations of private lands considered for inclusion were based primarily on aerial photography interpretation (i.e., larger expanses of natural habitat were given primary consideration), limited ground reconnaissance, and from previously collected information, such as that obtained through the NHI data.

For public lands, during May 2007 those sites determined potentially suitable for inclusion were field surveyed. Data obtained from the field investigations included: 1) a complete list of all vascular plant species observed; 2) a determination of dominant plant communities; 3) evidence of animal species present, including rare, threatened, and endangered species; 4) the presence and population sizes of critical species as observed; 5) the extent of invasion by weedy native or exotic species; 6) comments on the surface geology and physiography of each area; 7) evidence of natural or artificial disturbance, and degree of recovery from past disturbance; 8) potential threats to an area if apparent; and 9) a general impression of the quality of each area. Boundaries of each potential natural site were delineated on year 2000 Commission orthophotography at a scale of one-inch-equals-400 feet aerial photographs.

A total of 56 sites, or plant community areas, were considered for inclusion in the report. This included 35 areas under public ownership, and 21 areas completely under private ownership. Because of their proximities, a number of these individual areas were then combined to form 42 contiguous natural area sites.

INVENTORY RESULTS

Using a classification system originally developed by the Wisconsin Department of Natural Resources and refined by the Regional Planning Commission, each of the 42 identified natural areas were classified and ranked as being of statewide or greater significance, or an "NA-1" site; of countywide or regional significance, or an "NA-2" site; or of local significance, or an "NA-3" site. NA-1 sites represent excellent examples of nearly complete and relatively undisturbed plant and animal communities which are believed to closely resemble those present during pre-European-settlement times. NA-2 sites represent native biotic communities judged to be of lower than NA-1 significance because of evidence of limited human disturbance. NA-3 sites represent native biotic communities judged to have been substantially altered by human activities but which are of local significance, often containing good wildlife habitat or providing refuge for a number of native plant species which no longer exist in the surrounding area.

Of the 42 natural area sites identified, eight, totaling 2,816 acres, were identified as of NA-1 quality. These areas were predominantly under public ownership, primarily located within the Northern Unit of the Kettle Moraine State Forest, and include all four designated State Natural Areas located within the project area (Table C-10; Map C-5).

Table C-10

KNOWN NATURAL AREAS IN THE UPPER MILWAUKEE RIVER WATERSHED, SHEBOYGAN COUNTY: 2007

Map C-5 Reference Number	Area Name	Classification Code ^a	Location	Ownership	Size (acres)	Description and Comments
1	Parnell Woods	NA-1 (RSH)	T14N, R20E Sections 3, 4, 9, 10, 16, 17, 20 Town of Mitchell	Department of Natural Resources and private	1,650	Extensive, generally good-quality dry-mesic woods on irregular, rough interlobate terrain, including ephemeral ponds and other wetlands in depressions; mostly medium-age trees (red oak, sugar maple, red maple, shagbark hickory, white oak, bigtooth aspen, basswood, ironwood), but some areas, such as ridge tops, are younger second-growth; the varied shrub layer includes chokecherry, gray dogwood, hazelnut, mapleleaf viburnum, and prickly-ash; the diverse ground layer is dominated by poison ivy and geranium
2	Johnson Hill Kame	NA-1 (SNA)	T14N, R20E Section 8 Town of Mitchell	Department of Natural Resources	31	Very good quality mature mesic beech—maple and dry-mesic woods at base of, and on slopes of, Johnson Kame; very good species diversity; dominant trees include red oak, basswood, sugar maple, and beech locally; the kame itself is a State Natural Area
3	Nichols Creek Wildlife Area—North	NA-1 (RSH)	T14N, R21E Sections 7, 18 Town of Lyndon	Department of Natural Resources and private	101	Good-quality dry-mesic to mesic woods on undulating morainal topography, dominated by sugar maple, red oak, chokecherry, geranium, wood anemone, and Pennsylvania sedge; the ground flora is rich and diverse; few exotics are present; this area is bisected by a power line right-of-way; the cedar/northern hardwood swamp forest is very wet and borders Nichols Creek on both sides of CTH N; dominants include white cedar, yellow birch, black ash, and skunk cabbage; south of the road is a narrow grove of white cedar laced with springs and seepages
4	Nichols Creek Wildlife Area—South	NA-1 (RSH)	T14N, R21E Section 18 Town of Lyndon	Department of Natural Resources	150	A complex of dry-mesic woods, northern hardwood swamp, and springs in the southern portion of the Nichols Wildlife Area; the upland woods, dominated by red oak and sugar maple, vary in quality, with a moderate ground flora; the level swamp bordering CTH N is dominated by black ash, white cedar, mitrewort, wild sarsaparilla, Solomon's-seal, skunk cabbage, and dwarf red raspberry; numerous springs and seepages are present on this site; the spring ponds are heavily used by waterfowl

Table C-10 (continued)

Map C-5 Reference Number	Area Name	Classification Code ^a	Location	Ownership	Size (acres)	Description and Comments
5	Butler Lake, Woods, and Flynn's Spring	NA-1 (SNA, RSH)	T14N, R20E Section 20 Town of Mitchell	Department of Natural Resources	250	This site includes a shallow marl lake and spring and adjacent dry-mesic woods, and also a portion of the Parnell Esker; the lake is bordered by a small area of sedges and bulrushes on the north, and a thin zone of tamarack swamp forest, including black ash and bog shrubs, on the south; the upland woods, on rugged morainal terrain, has good species diversity; dominant trees include red oak, sugar maple, and basswood; ephemeral ponds are present in depressions in the woods
6	Crooked Lake Wetlands and Upland Woods	NA-1 (SNA, RSH)	T13N, R20E Section 6 Town of Scott	Department of Natural Resources	260	This State Natural Area includes a variety of wetland communities on the west and south shores of Crooked Lake, including alder thicket, open bog, shrub-carr, sedge meadow, northern lowland hardwoods, a tamarack—shrub complex, and a cedar swamp; dominant swamp species include white cedar, yellow birch, speckled alder, green ash, dwarf red raspberry, and nannyberry; the SNA includes two shallow undeveloped seepage lakes; the adjacent mature, good-quality dry-mesic woods is dominated by sugar maple, basswood, and red oak, with ephemeral ponds and a stream; however, garlic mustard has become too common
7	Kettle Hole Woods	NA-1 (SNA, RSH)	T13N, R20E Section 18 Town of Scott	Department of Natural Resources	84	Good-quality, diverse, mature mesic and dry-mesic upland woods on kettle moraine topography; the excellent canopy includes red oak, sugar maple, beech, basswood, white ash, white oak, and yellowbud hickory; the shrub layer is dominated by witchhazel, hazelnut, viburnums, and gooseberry; the ground flora is rich and diverse; few exotics are present; the site includes ephemeral ponds in kettle holes
8	Beechwood Spruce Swamp and Bog Lakes	NA-1	T13N, R20E Sections 17-20 Town of Scott	Department of Natural Resources and private	290	Three small seepage lakes with bog shorelines are surrounded by large forested wetlands that include shrub-carr, northern lowland hardwoods, and acid conifer swamp featuring mature black spruces; associated species include red maple, chokeberry, huckleberry, tamarack, starflower, sphagnum, and other associated ground layer species
9	Greenbush Kettle Woods	NA-2	T15N, R20E Sections 28, 29, 33 Town of Greenbush	Department of Natural Resources and private	150	Generally good quality and diverse dry-mesic woods on rough morainal topography; dominated by red oak, poison ivy, and geranium; more-or-less contiguous with much more extensive dry-mesic woods outside of project area to north; includes the Greenbush Kettle

Table C-10 (continued)

Map C-5 Reference Number	Area Name	Classification Code ^a	Location	Ownership	Size (acres)	Description and Comments
10	Watercress Creek Wetlands	NA-2	T14N, R20E Sections 6, 7 Town of Mitchell	Private	113	This area features a low gradient stream bordered by open wetlands and conifer swamp of tamarack and white cedar; the extensive shrub-carr and sedge/cattail meadow includes many spring seepages
11	Scenic Drive Wetlands	NA-2	T14N, R20E Sections 8, 17 Town of Mitchell	Department of Natural Resources	360	Extensive wooded wetlands, including tamarack swamp, shrub-carr, and lowland hardwoods, bisected by Scenic Drive
12	Section 30 Upland and Conifer Swamp	NA-2	T14N, R20E Sections 29, 30 Town of Mitchell	Department of Natural Resources	215	Moderate- to good-quality dry-mesic woods of sugar maple, shagbark hickory, ironwood, and red oak, with some younger, successional areas; the ground flora is dominated by Pennsylvania sedge; ephemeral ponds are present in kettle holes; the adjacent acid conifer swamp contains tamarack, black spruce, mountain holly, huckleberry, with a carpet of sphagnum; a portion of the Ice Age Trail traverses the woods
13	Division Road Woods	NA-2	T14N, R20E Sections 30, 31 Town of Mitchell	Department of Natural Resources and private	220	Large, diverse, medium-age dry-mesic woods on uneven morainal topography; dominant species include red oak, red maple, ironwood, Mayapple, and Pennsylvania sedge; ephemeral ponds are present; a portion of the Ice Age Trail traverses the woods; adjacent to the upland woods on the south is a series of three small lakes heavily used by waterfowl
14	Fish and Wildlife Service Upland Woods and Cedar Swamp	NA-2	T14N, R20E Sections 29, 32 Town of Mitchell	US Fish and Wildlife Service, Department of Natural Resources, and private	200	Moderate- to good-quality dry-mesic woods and seepage cedar swamp; the uplands are dominated by sugar maple, white trillium, and Mayapple; the northern lowland hardwood forest includes a number of northern elements; it is dominated by white cedar, yellow birch, black ash, jewelweed, skunk cabbage, and dwarf red raspberry
15	Melius Creek Cedar Swamp	NA-2	T13N, R20E Sections 2, 11 Town of Scott	Private	238	Relatively large forested wetlands of northern lowland hardwoods and white cedar adjacent to Melius Creek; bisected by highway
16	Adell Swamp—South	NA-2	T13N, R21E Sections 11, 12 Town of Sherman	Private	475	Extensive swamp of varying quality, mostly hardwoods but with some remnant tamaracks, on either side of STH 57; intensively used for hunting
17	Gooseville Ridge Woods	NA-2 (RSH)	T13N, R21E Section 17 Town of Sherman	Private	70	Mature, north-facing mesic beech—maple woods with rich ground flora, including some rare species; dominant trees include beech, sugar maple, basswood, elms, ironwood, red oak, white oak, and white ash; seasonal small ponds present in the spring; black ash present in wet areas along stream, and white cedar around cold springs

Table C-10 (continued)

Map C-5 Reference Number	Area Name	Classification Code ^a	Location	Ownership	Size (acres)	Description and Comments
18	Section 7 Upland Woods and Swamp	NA-2	T13N, R20E Section 7 Town of Scott	Department of Natural Resources	70	Good-quality dry-mesic upland woods, dominated by sugar maple, ironwood, red oak, Mayapple, and Pennsylvania sedge; the adjacent wetlands border a stream and include tamarack seepage swamp and alder thicket, plus black and green ashes and skunk cabbage
19	Haack Lake Swamp	NA-2	T13N, R20E Section 31 Town of Scott	Private	104	Kettle lake surrounded by northern lowland hardwoods, tamaracks, and black spruce; minor development along lake shore
20	CTH V Woods	NA-3	T14N, R20E Section 8 Town of Mitchell	Department of Natural Resources	83	Moderate- to good-quality dry-mesic woods of red oak on steep slopes of hills; beech, sugar maple, and paper birch are more common on east side; prickly-ash locally common; some areas are recovering from past disturbance
21	Slatts Road Hardwood Swamp	NA-3	T14N, R20E Sections 19, 20 Town of Mitchell	Department of Natural Resources	32	Low- to medium-quality lowland hardwood swamp with much standing water; dominant trees are small- to medium-size green ash and American elm; no conifers present
22	CTH F Upland Woods and Swamp	NA-3	T14N, R20E Section 29 Town of Mitchell	Department of Natural Resources and private	36	A good-quality dry-mesic woods of sugar maple and red oak that borders a moderate-quality lowland hardwood and tamarack seepage swamp
23	Mink Creek Cedars	NA-3 (RSH)	T14N, R20E Section 28 Town of Mitchell	Private	150	Very patchy and elongated cedar swamp and northern lowland hardwood swamp bordering Mink Creek
24	Cascade Woods	NA-3	T14N, R21E Sections 19, 30 Town of Lyndon	Private	87	A dry-mesic woods, northwest of Cascade, dominated by red oak and sugar maple; residential development at edges
25	Lake Ellen Woods	NA-3	T14N, R20E Section 36 Town of Mitchell T14N, R21E Section 31 Town of Lyndon	Private	130	Dry-mesic woods west of Lake Ellen
26	Lake Ellen Swamp	NA-3	T14N, R21E Sections 28, 31, 32 Town of Lyndon	Private	430	Bordering the North Branch of the Milwaukee River, these low- to moderate-quality wetlands are located south and east of Lake Ellen; some portions are greatly disturbed; includes lowland hardwoods, shrub-carr, sedge meadow, and shallow marsh
27	Kruschke's Woods	NA-3	T14N, R21E Section 33 Town of Lyndon	Private	40	Beech—maple woods
28	Adell Swamp—North	NA-3	T13N, R21E Sections 2, 3 Town of Sherman	Private	134	Remnant tamaracks within a mostly moderate-quality hardwood swamp
29	Indian Mound Road Low Woods	NA-3	T13N, R20E Section 1 Town of Scott T13N, R21E Sections 6, 7 Town of Sherman	Private	360	Elongated low woods of varying quality bordering a stretch of the North Branch of the Milwaukee River

Table C-10 (continued)

Map C-5 Reference Number	Area Name	Classification Code ^a	Location	Ownership	Size (acres)	Description and Comments
30	Mink Creek Woods	NA-3	T13N, R20E Section 4 Town of Scott	Private	120	Mostly lowland hardwoods bordering Mink Creek, with some areas of upland dry-mesic woods
31	Tower Road Woods	NA-3	T13N, R20E Section 7 Town of Scott	Department of Natural Resources	88	Mostly moderate-quality dry-mesic woods, dominated by sugar maple, red oak, and chokecherry, with a fair ground flora; northern lowland hardwoods border stream
32	Tower Road Wetlands	NA-3	T13N, R20E Section 18 Town of Scott	Department of Natural Resources	42	Low- to medium-quality wetlands; mostly shrub-carr, lowland hardwoods, and sedge meadow
33	Forest View Road Woods and Swamp	NA-3	T13N, R20E Section 18 Town of Scott	Department of Natural Resources	10	A moderate-quality tamarack seepage swamp with adjacent dry-mesic woods on ridge; fair species diversity
34	Forest View Road Shrub-Carr	NA-3	T13N, R20E Section 18 Town of Scott	Department of Natural Resources	34	Moderate-quality wetlands, mostly shrub-carr and lowland hardwoods, with some tamarack present
35	Stony Creek Swamp	NA-3	T13N, R20E Section 30 Town of Scott	Private	123	Dry-mesic upland woods and lowland hardwoods bordering Stony Creek
36	Maple Tree Road Low Woods	NA-3	T13N, R20E Section 32 Town of Scott	Private	134	Complex of upland dry-mesic woods and lowland hardwoods
37	Sand Pit Woods	NA-3	T13N, R20E Section 33 Town of Scott	Private	68	A combination of lowland hardwood swamp and upland dry-mesic forest surrounded by agricultural fields
38	Valley View Drive Low Woods	NA-3	T13N, R20E Sections 32, 33 Town of Scott	Private	44	Lowland hardwood swamp, divided by highway
39	Silver Creek Swamp	NA-3	T13N, R20E Section 36 Town of Scott	Private	110	Lowland hardwood swamp
40	CTH I Swamp	NA-3	T13N, R21E Sections 20, 21 Town of Sherman	Private	240	A relatively large forested wetland, greatly disturbed at the edges; some upland dry-mesic woods are present along the borders
41	Sherman Center Swamp—North	NA-3	T13N, R21E Sections 14 Town of Sherman	Private	275	A large, irregularly-shaped lowland hardwood swamp, divided by a railroad right-of-way
42	Sherman Center Swamp—South	NA-3	T13N, R21E Sections 23 Town of Sherman	Private	92	A relatively small lowland hardwood swamp
43	US Fish and Wildlife Service Grassland	CSH	T14N, R20E Section 32 Town of Mitchell	US Fish and Wildlife Service	175	Artificial grassland managed by the US Fish and Wildlife Service through periodic prescribed burning for grassland nesting bird habitat (e.g., bobolinks); provides some of the only grassland habitat within this agricultural/woodland matrix

^aNA-1 identifies Natural Area sites of statewide or greater significance

NA-2 identifies Natural Area sites of countywide or regional significance

NA-3 identifies Natural Area sites of local significance

CSH identifies those sites not of natural area quality, yet which are known to provide habitat for critical animal or plant species

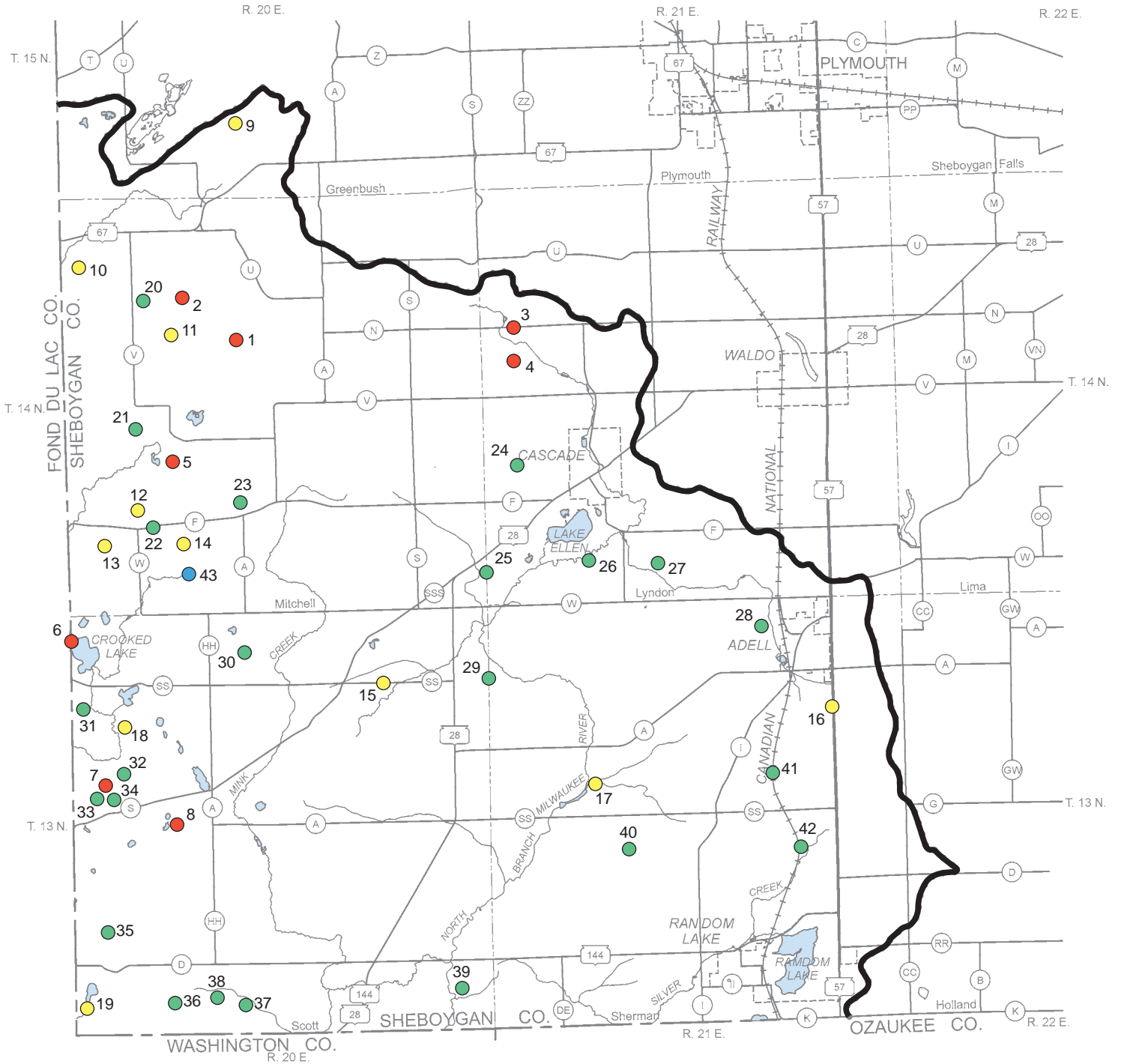
SNA, or State Natural Area, identifies those sites officially designated as State Natural Areas by the State of Wisconsin Natural Areas Preservation Council

RSH, or Rare Species Habitat, identifies those sites which support rare, threatened, or endangered animal or plant species officially designated by the Wisconsin Department of Natural Resources

Sources: Wisconsin Department of Natural Resources and SEWRPC

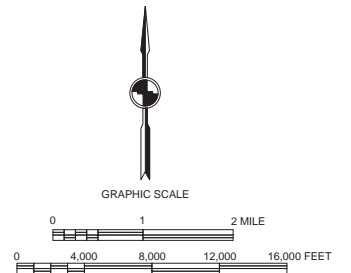
Map C-5

KNOWN NATURAL AREAS IN THE UPPER MILWAUKEE RIVER WATERSHED, SHEBOYGAN COUNTY: 2007



- NATURAL AREA SITE OF STATEWIDE OR GREATER SIGNIFICANCE (NA-1)
- NATURAL AREA SITE OF COUNTYWIDE OR REGIONAL SIGNIFICANCE (NA-2)
- NATURAL AREA SITE OF LOCAL SIGNIFICANCE (NA-3)
- LOCATION OF CRITICAL PLANT SPECIES HABITAT NOT WITHIN A NATURAL AREA
- 36 REFERENCE NUMBER (SEE TABLE C-10)

Source: SEWRPC.



Eleven sites were identified as of NA-2 quality, five of which were entirely under private ownership. These totaled 2,215 acres. The remaining 23 natural area sites totaled 2,862 acres and were identified as of NA-3 quality; 16 of these were privately owned.

In addition, one site, a grassland area of 175 acres managed by the U.S. Fish and Wildlife Service, was determined to provide significant habitat for grassland nesting birds, and was classified as a Critical Species Habitat Area (Table C-10; Map C-5).

Relationship of the Natural Area and Critical Species Habitat

Sites and Geological Sites to the Environmental Corridors

All of the 42 identified natural area sites, for a total of 7,893 acres, are located entirely within Commission-delineated primary environmental corridors. However, the single identified critical species habitat site of 175 acres—a grassland managed for bird habitat—is not located within either a primary or secondary environmental corridor.

CONCLUSION

If natural areas and threatened and endangered species and their critical habitats in the County are to be effectively protected and wisely managed, adequate information concerning such resources must be assembled in a readily usable form as soon as possible. Otherwise, significant native plant and animal communities, rare species and their habitats, and areas of archaeological and geological significance will continue to be adversely affected, and in many cases lost entirely, owing to unwise and insensitive urban and agricultural development. Proper planning for protection and management of the unique and sensitive resources of Sheboygan County should include a standardized means of identifying and evaluating those resources. Effective long-term management planning must occur to ensure the maintenance of the integrity of natural areas and survival of the species dependent on them. By doing so, such planning can contribute immeasurably to the maintenance and restoration of the natural beauty of the watershed, to the quality of life within the watershed, and to the maintenance of biotic diversity within the watershed.

In addition, such planning can facilitate economic development within the watershed with respect to the environmental review process by clearly identifying environmentally sensitive lands prior to the preparation of development proposals. Sound economic development could then proceed with confidence and, additionally, in a less costly manner with respect to environmental concerns, reducing the possibility of conflict with respect to required environmental regulatory and review processes.

To be fully effective, the natural areas and critical species habitat protection and management efforts must relate properly to other County plans and recommendations. Plans prepared by the County are not envisioned as static documents, but, rather, are continuously updated, revised, and refined to reflect changing conditions and needs. The same is true for the various components of plans prepared by the County. For example, the natural areas and critical species habitat protection recommendations may result in refinements to delineated primary environmental corridors. In addition, the County may recommend refinements to the protection, acquisition, and/or management of selected secondary environmental corridors and isolated natural resource areas.

In this respect, the regional natural areas and critical species habitat inventory will provide input to County park and open space plans and County land use and transportation plans. The inventory may further affect recommendations made with respect to sanitary sewer service area plans within the county and the regional water quality management plan.