

Wisconsin Department of Natural Resources

Monitoring the Implementation of Property Master Plans

Property Grouping: Lower Wolf River Bottomlands Natural Resources Area (LWRBNRA)

Master Plan Year: 2012

Native Community Management Area: Lower Wolf and Embarrass River Corridors

<p>MASTER PLAN OBJECTIVES</p>	<ul style="list-style-type: none"> • Maintain and enhance the extent, quality, and connectivity of Floodplain Forest and Southern Hardwood Swamp, and maintain their connections to adjacent open habitats (e.g., marshes, shrub swamps), to benefit common species such as wood duck, raccoon, white-tailed deer, wild turkey, and beaver and uncommon species such as red-shouldered hawk, cerulean warbler, and prothonotary warbler. • Maintain a functioning Floodplain Forest ecosystem that contains many older trees and large-diameter trees, snags, coarse woody debris, patches of younger regenerating forest, habitat for the fullest range of Floodplain Forest species as possible, and minimal populations of invasive exotic species. The desired forest condition in this type of stand-level mosaic may be represented by the following tree size-class distribution (DBH = Diameter at Breast Height): <ul style="list-style-type: none"> • 0-5" DBH: 10% of patches within stands • 5-11" DBH: 15% of patches within stands • 11-15" DBH: 15% of patches within stands • 15-30" DBH: 60% of patches within stands • >30" DBH: at least 1 tree/acre throughout the bottomlands (Note: there are areas of bottomland hardwoods that are not suitable for conducting logging operations. These areas would be allowed to develop and could conceivably reach stand averages of 30" DBH, barring any natural disturbances such as wind storms, major floods or insect outbreaks. Even in the managed areas, 75% of the stand area would always be in a larger-diameter (sawlog) size class.) • Manage non-Floodplain Forest communities to complement the Floodplain Forest objectives and support aquatic habitat management objectives and, secondarily, to support the wildlife habitat management objectives described under Habitat Management Area (p. 15).
<p>Accomplishments 2013</p>	<p><i>Multiple BH stands have been marked on Navarino Wildlife Area (Compartment 1 & 4), LWRBNRA Niemuth parcel (12 acres) & Schmude parcel (25 acres) following management guidelines, taking into consideration walleye spawning marshes, cavities for wood ducks and other species that utilize them for nesting, and coarse woody debris recruitment into the river for fish, reptile, and aquatic invertebrate</i></p>

	substrate.
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Habitat Management Areas: General Habitat Management Objectives

MASTER PLAN OBJECTIVES	<ul style="list-style-type: none"> • Provide maximum wildlife benefits on wetlands, particularly habitat for waterfowl nesting, brood rearing, and migratory stopover. • Provide larger blocks of habitat and a continuum of habitats from lowland to upland; and provide linkages between habitat blocks that create travel corridors for the movement of species over time. • Provide high-quality habitat for forest game and non-game species, with an emphasis on oak, aspen, native white pine, and swamp conifer habitats. • Protect, enhance, and expand turtle nesting opportunities.
Accomplishments 2013	<p><i>The primary objective is to regenerate early successional species of trees to benefit ruffed grouse, woodcock, golden-winged warblers, and other young forest dependent species.</i></p> <p><i>Timber marked in aspen habitat to provide for young forest dependent species-Maine Wildlife Area.</i></p> <p><i>DeWolfe parcel firebreak installed for prescribed burn in Spring 2014 (site mowed to reduce competition to prairie from woody vegetation in Summer 2013).</i></p> <p><i>Besides the bottomland hardwood type on Niemuth parcel, there are 7 acres of pine thinning, 9 acres of aspen regeneration, and 1 acre of scrub oak release of advanced regeneration (pine/oak) marked.</i></p> <p><i>Braatz/DeWolfe timber sale pine thinning (9acres) & hardwoods with aspen (9 acres) respectively.</i></p> <p><i>Small aspen stand was marked on DOT mitigation site.</i></p> <p><i>Boundaries painted for timber sale establishment on Maine WA, LWRBNRA Niemuth parcel, Schmude parcel & Braatz parcel, Navarino WA Compartment 2 & 4, and Outagamie WA.</i></p> <p><i>Water level control on all flowages to maximize benefits for wetland dependent species, taking into consideration water quality, quantity, and other aspects of hydrology. Dam safety inspections and designations ongoing.</i></p> <p><i>Mowed tops and sides of dikes (36 miles) on 57 total flowages—Lutz WRP cannot be mowed without prior permission from NRCS (1 flowage with 1.7 miles of dike).</i></p> <p><i>Emergency hay cutting permits issued for Schmude parcel (4 acres), Lutz parcel (25 acres), and Beilfuss</i></p>

	<p>parcel (10 acres).</p> <p>Scarification conducted on Sorensen parcel to increase chances for germination of acorns.</p> <p>Population monitoring activities included duck banding, bear bait survey, Sandhill crane survey, upland game bird survey, turtle survey, breeding bird and amphibian surveys in conjunction with Navarino Nature Center, summer deer observations, ruffed grouse survey, pheasant survey, aquatic invertebrate survey, and mammal surveys, including wolves.</p> <p>Waterfowl banding totals for Navarino WA & Wolf River Bottoms WA-Herb Behnke Unit were:</p> <table> <tr> <td>Mallards</td> <td>220 new, 7 recaps</td> </tr> <tr> <td>Wood ducks</td> <td>197 new, 23 recaps</td> </tr> <tr> <td>Black ducks</td> <td>2 new</td> </tr> <tr> <td>Total</td> <td>419 new, 30 recaps</td> </tr> </table> <p>Assisted deer research crew with equipment and manpower.</p>	Mallards	220 new, 7 recaps	Wood ducks	197 new, 23 recaps	Black ducks	2 new	Total	419 new, 30 recaps
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General Fisheries Management

MASTER PLAN OBJECTIVES	Maintain and enhance existing fisheries through habitat management and restoration, enhancement and protection, monitoring, and development of science-based angling rules.
Accomplishments 2013	Surveys done on Wolf River.

Fisheries Management: Walleye Spawning Marshes

MASTER PLAN OBJECTIVES	Restore, enhance, and maintain the functional values of known walleye spawning marshes and establish new walleye spawning marshes where practicable.
Accomplishments 2013	<p>Worked with Walleyes for Tomorrow (WFT) to put in 6 culverts across a road that had for decades acted as a dike, greatly reducing flows to Wieland's marsh, a walleye spawning marsh.</p> <p>Completed bank cut at Shirttail bend on the Wolf River to allow more water to overtop the bank and spill into Markman's Bayou on the lower end of Mukwa Wildlife Area to improve walleye spawning.</p> <p>Work planned for a bank cut at Templeton Bayou area had to be curtailed due to weather conditions. Will try again in 2014.</p>

Fisheries Management: Sturgeon Populations and Spawning Areas in the Wolf River

<p>MASTER PLAN OBJECTIVES</p>	<ul style="list-style-type: none"> • Restore, enhance, and protect the functional values of known sturgeon spawning areas on the Wolf River, and establish new quality spawning areas when opportunities allow. • Restore migrant and resident sturgeon spawning populations to the Wolf River above Shawano Paper Mill and Balsam Row dams, including the river on the Menominee Reservation and the Red River above the Shawano Paper Mill dam, without negatively impacting the Winnebago System sturgeon population or recreational fishery. Utilize fish and eggs from sturgeon stock in the lower Wolf River for this effort. • Work cooperatively with the Menominee Tribe to meet cultural sturgeon needs, and to develop and implement a cost-efficient and ecologically sound long-term process for restoring sturgeon to the upper Wolf River. Utilize fish and eggs from sturgeon stock in the lower Wolf River for this effort.
<p>Accomplishments 2013</p>	<p><i>Work with Sturgeon for Tomorrow to restore 600 feet of sturgeon spawning habitat at the Ball Diamond spawning site in New London. This site previously had been utilized for sturgeon spawning but the larger rock had sloughed into the river. Through the placement of larger rock, we expect sturgeon to once again spawn here.</i></p> <p><i>Transferred 100 juvenile and adult sturgeon from below the Shawano Paper Mill Dam upstream of the two dams to be released below Keshena Falls. A portion of the fish transferred were surgically implanted with 10-year sonic transmitters to monitor their downstream descent.</i></p> <p><i>Collaboratively worked with Menominee Tribe and USFWS to document successful natural reproduction of lake sturgeon below Keshena Falls through the capture of larval fish.</i></p>

Fisheries Management: Coarse Woody Habitat for Catfish and Other Species

<p>MASTER PLAN OBJECTIVES</p>	<ul style="list-style-type: none"> • Provide a sustainable catfish fishery with opportunities for both quality and trophy harvest. • Maintain and/or restore coarse woody habitat for catfish and the multitude of other fish and aquatic species that utilize this type of habitat.
<p>Accomplishments 2013</p>	<p><i>Installed 4 tree and root wad habitat structures for flathead catfish on the Wolf River at Shirttail bend just downstream of Hwy. X west of New London, with more planned for 2014.</i></p>

Fisheries Management: Other Fish Species

MASTER PLAN OBJECTIVES	Provide balanced and diverse game, panfish and non-game fish communities.
Accomplishments 2013	<i>Ongoing. In general, the fisheries populations in the system are probably as healthy and diverse as they have been in decades.</i>

Fisheries Management: Mussel Habitat

MASTER PLAN OBJECTIVES	<ul style="list-style-type: none"> • Maintain abundant and diverse mussel populations in the Wolf River system. • Expand distribution and abundance data for mussels in the Wolf River system.
Accomplishments 2013	<p><i>Received a grant to determine snuffbox mussel distribution in the Wolf River.</i></p> <p><i>Primary sampling for snuffbox was conducted on the Little Wolf River in 2013.</i></p> <p><i>Also did some mussel surveys for mussels for DOT bridge projects on the Wolf River at Hwys. 110, 22 and 54, adding to the DNR's mussel species and distribution data base.</i></p>

General Recreation Management

MASTER PLAN OBJECTIVES	<ul style="list-style-type: none"> • Provide high-quality hunting, trapping, and fishing opportunities. • Provide opportunities for high-quality, nature-based, non-hunting-related recreational activities, such as paddling, hiking, cross country skiing, and wildlife viewing, as is compatible with the property's capabilities and the primary objective, above. • To the degree practicable, accommodate compatible incidental open-space recreational uses; for example, nature study and berry picking (incidental uses are uses that are not specifically managed for on the property).
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**Accomplishments
2013**

The Hwy 156 boat landing on the Wolf River was improved replacing the launch with concrete slabs and adding rock/asphalt to the parking area. A handicap accessible dock was installed at the site also.

Waterfowl identification signs were erected at Navarino Wildlife Area, Wolf River Bottoms Wildlife Area-Herb Behnke Unit, LWRBNRA-Wilderness Unit, and the DOT Mitigation Site.

Continued to host "Mussels on the Wolf River" field trip through the Natural Resources Foundation.

Waterfowl closed area boundary inspected and signs replaced on Navarino and Outagamie Wildlife Areas.

Property: Lower Wolf River Bottomlands Natural Resources Area (LWRBNRA) Habitat Areas

Habitat Management Area: Institute of Paper Science parcel

MASTER PLAN OBJECTIVES	<ul style="list-style-type: none"> • Maintain exotic hybrid larch research stand as a seed orchard for future genetic trials and possible climate change research. • Convert exotic aspen hybrid research stand to a native white pine and oak stand.
Accomplishments 2013	<i>A timber sale was completed to convert the stand to native pine and oak.</i>

Habitat Management Area: Wilderness parcel

MASTER PLAN OBJECTIVES	Management will be in accordance with the general Habitat Management Area Objectives and the Aquatic Habitat Overlay Objectives provided in Section One of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Restore permanent wetland habitat in the existing impoundment by manipulating water levels. • Develop 3 new flowages to enhance habitat for waterfowl. • Lower the grade of the road crossing the oxbow in the southern portion of the property and maintain as a spillway to allow water flow for walleye spawning. • Maintain the electric pumping station in the northern portion of the property used to manipulate water levels, and assess the need to retain the non-electrified pump on the bank of Wolf River in the northeast corner of the property. • Study potential strategies for managing waterfowl hunting pressure on this and adjacent state properties during traditional peak use times to enhance hunting quality.
Accomplishments 2013	<p><i>Two small dikes were lowered on the oxbow on Wilderness Unit to allow water flow through the walleye spawning marsh and passage by the DNR shocker boat.</i></p> <p><i>North Pool 1—1440 feet of dike was renovated and water control structure installed (12 acres).</i></p> <p><i>South Pool 3—new water control structure placed (165 acres).</i></p> <p><i>South Pool 4 & South Pool 4 Sub-impoundment—renovated 1543 feet of dike and installed 2 water control structures with breaker rock added at structure and dike for erosion control (25 Acres).</i></p>

	<p><i>South Pool 5—renovated 344 feet of dike (4 acres).</i></p> <p><i>Inspected for muskrat holes and maintained 6 miles of dike.</i></p> <p><i>Pumping station was maintained and ran throughout the summer to fill South Pool 2 and drain into South Pool 3 to manage for wild rice resource.</i></p> <p><i>Cool-season field edges mowed—will improve woodcock habitat for approximately 10 years.</i></p> <p><i>Firebreak installed on prairie to conduct prescribed burn in Spring 2014.</i></p>
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Habitat Management Area: DOT Mitigation Site parcel

MASTER PLAN OBJECTIVES	Maintain and enhance wetland habitats for diverse wildlife species, wildlife-related recreation, and floodwater management, in collaboration with the Outagamie Drainage District.
Accomplishments 2013	<p><i>Hydrologic & Hydraulic Report; Inspection, Operation and Maintenance Plan; Emergency Action Plan—nearing completion after comments from the public meeting are added to the document.</i></p> <p><i>Inspected for muskrat holes and maintained 5.5 miles of dike.</i></p> <p><i>Repaired large culvert that connects to Shioct River.</i></p> <p><i>Interpretive signs designed by Shiocton International Leadership Academy (SILA charter school) installed with funding provided by Shadows on the Wolf-Shiocton Chapter and oversight provided by Mosquito Hill Nature Center.</i></p>

Habitat Management Area: Lutz parcel

MASTER PLAN OBJECTIVES	Management will be in accordance with the general Habitat Management Area Objectives and the Aquatic Habitat Overlay Objectives provided in Section One of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Restore agricultural lands to native habitats after the sharecropping agreement is completed. Ditches may be plugged and small berms constructed to create basins. Prairie species may be planted to provide permanent nesting habitat. Bottomland hardwood species such as swamp white oak, silver maple, and hackberry may be planted in fields adjacent to existing stands of bottomland hardwoods.

	<ul style="list-style-type: none"> • Retain the deer-proof fence as needed to protect planted bottomland hardwoods from deer browse. When no longer needed, request bids for its removal by private contractors. • Work with NRCS to develop and implement a management plan for the existing WRP parcel on this property.
<p align="center">Accomplishments 2013</p>	<p><i>Planning for WRP dike improvements took place with NRCS.</i></p> <p><i>Silver maple was planted (9 acres) as a buffer along the Wolf River in Spring 2012 into rye seed for weed control. Sprayed in Fall 2012 to kill the rye and weeds present.</i></p> <p><i>Prairie mix was planted on 22 acres in Spring 2012.</i></p> <p><i>Mixed hardwood/conifer trees were planted on 20 acres in 2013.</i></p> <p><i>Firebreaks were installed in Fall 2013 for prescribed burn to take place on new seeding in Spring 2014.</i></p> <p><i>Deer were herded out of the fence to reduce browse on the trees.</i></p> <p><i>Sharecropper planted winter wheat in August due to the wet Spring conditions in 2013 (133 acres).</i></p> <p><i>Emergency hay cutting permit issued for 25 acres of marsh hay with permission from NRCS.</i></p>

Special Management Area: Wilderness parcel

<p align="center">MASTER PLAN OBJECTIVES</p>	<p>Provide areas and facilities to support routine, seasonal, and incidental operations and administration needs.</p>
<p align="center">Accomplishments 2013</p>	<p><i>Deer research crew using the facility. Drywall installed upstairs to divide room into two quarters.</i></p>

Public Use, Management, and Development: LWRBNRA Habitat Areas

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Maintain 8 parking areas and 2 boat landings. • Continue working with partners to maintain the viewing platform on the DOT Mitigation Site in Outagamie County. • Provide a designated dispersed camping area (to be utilized by permit) on the Krubsack parcel in Shawano County to serve paddlers making multiple-day trips on the Wolf River. <ul style="list-style-type: none"> • Designate a location for landing canoes and kayaks near the camping area that minimizes erosion, and post as such; maintain as necessary. • Maintain the service road to the camping area for performing maintenance. • No facilities will be provided and visitors will be expected to remove their trash upon leaving. User regulations will be provided with camping permits. • Management of vegetation at the camping area will be minimal, as needed to ensure visitor safety, control invasive exotic plants, and provide open areas for tent placement. • Develop a 3-vehicle parking area on the Larson parcel in Waupaca County. • Evaluate recreational opportunities and parking area needs on an ongoing basis as additional parcels become available through acquisition.
Accomplishments 2013	<p><i>DOT Mitigation Site mowed and litter removed to maintain site in cooperation with Mosquito Hill Nature Center. Boards replaced on viewing platform and graffiti cleaned.</i></p> <p><i>Krubsack parcel—sheds and fence removed, area seeded down to reduce erosion on spoils from 156 boat landing dredging project, new parking lot, gate, and signage installed.</i></p> <p><i>There were no requests for camping.</i></p> <p><i>All parking areas were maintained by mowing and litter removed.</i></p> <p><i>Internal roads mowed for maintenance and to aid access for users.</i></p> <p><i>Braatz parcel purchased—building and debris removed.</i></p> <p><i>Boundary posted and old signs removed.</i></p> <p><i>Orville Conradt parcel was purchased and a capital development project submitted for remediation of building site. Asbestos sampling completed</i></p>

	<p><i>Issued 2 mobility device access permits for Wilderness Unit.</i></p> <p><i>Japanese barberry and buckthorn were identified on Beilfuss parcel.</i></p> <p><i>Emergency hay cutting permit issued on Beilfuss parcel (10 acres) and Schmude parcel (4 acres).</i></p> <p><i>Develop a 3-vehicle parking area on the Larson parcel in Waupaca County.</i></p>
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Property: Navarino Wildlife Area

Habitat Management Area

<p>MASTER PLAN OBJECTIVES</p>	<p>Management will be in accordance with the general Habitat Management Area Objectives and the Aquatic Habitat Overlay Objectives provided in Section One of this chapter.</p>
<p>Appropriate Management Activities or Prescriptions</p>	<ul style="list-style-type: none"> • Follow the applicable Habitat Management Area Prescriptions, Aquatic Habitat Overlay Prescriptions, and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below. • Maintain the open, treeless sandblows within the grasslands east of CTH K for tiger beetles. • Develop 4 new flowages to enhance habitat for waterfowl. • Where stands of white pine 95 years old or older occur on appropriate sites, manage them to biological maturity.
<p>Accomplishments 2013</p>	<p><i>New flowages were developed to enhance habitat for wetland species-south of Wildwood Rd, 225 feet of dike was constructed and water control structure was installed with erosion control measures (18 acres impounded) and east of Wilber Rd three stretches totaling 920 feet of dike (130 acres impounded). Repair to Wilber flowage dike to be done in early Summer 2014.</i></p> <p><i>Inspected for muskrat holes and maintained 6.8 miles of dike.</i></p> <p><i>Agricultural fields sharecropped under 3 contracts (total 165 acres).</i></p> <p><i>Maintained habitat for tiger beetles east of CTH K.</i></p> <p><i>Two prescribed burns on prairie habitat completed—Townline Rd (29 acres) and Ganschow (14 acres).</i></p> <p><i>Established firebreaks on Ganschow East (25 acres), Townline North (40 acres), Lindsten (22 acres), and Selma Hanson (290 acres) for planned prescribed burns in Spring 2014.</i></p> <p><i>Marked/sold timber:</i></p> <p><i>Compartment 1: 151 acres of bottomland hardwood thinning with pockets of crown release to release advanced regeneration of swamp white oak, 30 acres aspen regeneration, and 4 acres of pine thinning. Crossings and riparian management zone marked.</i></p> <p><i>Compartment 3: 50 acres oak release/thinning with legacy trees retained. Scarification conducted under red oak to take advantage of the acorn crop and increase chances for germination.</i></p>

	<p><i>Compartment 4: 247 acres total of bottomland hardwood thinning to improve stand quality on the majority, with small areas of aspen regeneration, and pine thinning. Designated area (6 acres) of bottomland hardwood with advanced regeneration of swamp white oak for firewood permits to aid in management of the site and provide fuel for homeowners.</i></p> <p><i>Compartment 6: Aspen regeneration/white pine release (17 acres), white pine/hemlock thinning (8 acres), and selection harvest in mixed oak stand (19 acres) to release advanced regeneration. Designated area (2 acres) of scrub oak for firewood permits to aid in management of the site and provide fuel for homeowners.</i></p> <p><i>Compartment 12: 45 acres aspen and mixed hardwood regeneration in 6 stands and 1.5 acres of black ash/cedar thinned.</i></p> <p><i>Compartment 14: 15 acres of aspen regeneration & 17 acres selection harvest.</i></p> <p><i>Boundaries were inspected and clearly marked for all timber sales next to private land.</i></p> <p><i>The primary objective is to regenerate early successional species of trees to benefit ruffed grouse, woodcock, golden-winged warblers, and other young forest dependent species.</i></p> <p><i>Four scattered areas were delineated for future biomass harvest or shearing to promote alder habitat.</i></p> <p><i>Issued 38 firewood permits on two separate areas to managed oak resource.</i></p>
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Native Community Management Area: Navarino Cedar Swamp State Natural Area

MASTER PLAN OBJECTIVES	Protect a functioning white cedar swamp with little disturbance and nearly free of invasive exotic species.
Accomplishments 2013	Forestry recon was updated to reflect the new designation.

Native Community Management Area: Navarino Sedge Meadow State Natural Area

MASTER PLAN OBJECTIVES	Protect a functioning Northern Sedge Meadow.
Accomplishments 2013	<i>Forestry recon was updated to reflect the new designation.</i>

Native Community Management Area: Highway K Woods State Natural Area

MASTER PLAN OBJECTIVES	Protect a functioning Northern Dry-mesic Forest with little disturbance and nearly free of invasive exotic species.
Accomplishments 2013	<i>Japanese knotweed patch was mowed several times and sprayed by NHC crew. Forestry recon was updated to reflect the new designation.</i>

Special Management Area: Navarino Nature Center

MASTER PLAN OBJECTIVES	<ul style="list-style-type: none"> • Provide areas and facilities to support operations and administration needs and provide facilities to help deliver public services and educational programming. • Provide educational programs that develop outdoor skills emphasizing appreciative as well as consumptive uses of wildlife resources and other manners of enjoying natural resources and the outdoors. • Provide interpretive and educational services that create an appreciation for wildlife and natural resources conservation and management. • Provide educational programs and demonstration of technology being used at Navarino Nature Center to foster appreciation and interest in renewable energy.
Accomplishments 2013	<i>Additional parking space was developed to provide safe parking during popular events. Handicap accessible trail developed to the lower level of the nature center from the parking lot.</i>

	<p><i>Youth Conservation Field Day focused on 5th grade classes from Shawano and careers in resource management.</i></p> <p><i>Woodcock trail and pamphlet developed to promote young forest management and the species that benefit from it.</i></p> <p><i>Trails and boardwalk were maintained by Navarino Nature Center. Cross-country ski trails were also groomed.</i></p> <p><i>Scarification training for foresters held at NNC with tour on Navarino Wildlife Area.</i></p> <p><i>Three donated bat houses were erected near Glenn's Pond.</i></p>
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Public Use, Management, and Development: Navarino Wildlife Area

MASTER PLAN OBJECTIVES	<p>The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.</p>
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Maintain 57 parking areas and 3 boat landings on the property. • Maintain the 40-acre Class 2 dog training area on Oak Road in cooperation with volunteers. • Maintain wildlife viewing area on Lindsten Road. • Maintain a 1,000-acre closed area at Pikes Peak Flowage as a waterfowl refuge (NR 11.04(4)(a), Wis. Admin. Code). • Continue working with NNC to maintain the observation platform on Pikes Peak Flowage. • Provide additional accessible wildlife viewing opportunities on Pikes Peak Flowage. • Improve the path to an accessible duck-hunting blind on McDonald Flowage.
Accomplishments 2013	<p><i>Installation of the Pike's Peak viewing deck and ADA trail in cooperation with Navarino Nature Center, Rawhide Boys Ranch, and Safari Club International.</i></p> <p><i>Brush was trimmed near viewing mound on Lindsten Rd.</i></p> <p><i>Dog training ground was maintained by volunteers and DNR.</i></p> <p><i>Signage was replaced for those missing/damaged on waterfowl closed area to clearly post it for hunters (approximately 4.7 miles).</i></p>

	<p><i>Parking lots were mowed, litter removed, and new signage installed.</i></p> <p><i>Firewood permit was issued to remove downed tree off parking lot.</i></p> <p><i>Stocked 140 pheasants in two releases. Coordinated with clubs enrolled in the Day-Old-Chick program.</i></p> <p><i>Renovated and opened .3 mile of new access road and parking lot.</i></p> <p><i>Maintained 1.75 miles of access roads.</i></p> <p><i>Internal roads maintained and mowed (95 miles) to aid access for users. Fire Control assisted to open trails with numerous trees down to facilitate timber marking, open the snowmobile trail, and allow access for property users.</i></p> <p><i>Issued 16 mobility device access permits.</i></p>
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Property: Wolf River Bottoms State Natural Area

Native Community Management Area

MASTER PLAN OBJECTIVES	<ul style="list-style-type: none"> • Maintain the site as an old-growth Floodplain Forest preserve, aquatic preserve, wetland protection site, and as an ecological reference area. • Natural processes will largely determine the structure of the forest.
Accomplishments 2013	<i>No management actions to report.</i>

Property: Deer Creek Wildlife Area

Habitat Management Area

MASTER PLAN OBJECTIVES	Management will be in accordance with the general Habitat Management Area Objectives provided in Section One of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Follow the applicable Habitat Management Area Prescriptions and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below. • Remove the water control structure at the outlet of the main ditch and replace with a rock spillway to help maintain the hydrology of the tamarack bog. • Maintain sand prairie openings as potential turtle nesting areas through mowing.
Accomplishments 2013	<i>Timber marking almost complete for aspen and tamarack thinning almost complete on area outside of the SNA.</i>

Native Community Management Area: Deer Creek Tamarack Bog State Natural Area

MASTER PLAN OBJECTIVES	Protect an existing black spruce-tamarack forest and open bog.
Accomplishments 2013	<p><i>Buckthorn surveyed on SNA.</i></p> <p><i>Forestry recon was updated to reflect the new designation.</i></p>

Public Use, Management, and Development: Deer Creek Wildlife Area

MASTER PLAN OBJECTIVES	<p>The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.</p> <ul style="list-style-type: none"> • Maintain 4 parking areas on the property.
Accomplishments 2013	<i>Parking lots were mowed, litter removed and signage installed.</i>

Property: Maine Wildlife Area

Habitat Management Area

MASTER PLAN OBJECTIVES	<p>Management will be in accordance with the general Habitat Management Area Objectives provided in Section One of this chapter.</p>
Accomplishments 2013	<i>Aspen pockets marked for timber sale.</i>

Public Use, Management, and Development: Maine Wildlife Area

MASTER PLAN OBJECTIVES	<p>The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.</p> <ul style="list-style-type: none"> • Maintain 1 parking area on the property.
Accomplishments 2013	<p><i>Parking lot was mowed, litter removed, and signage installed.</i></p> <p><i>South boundary line was posted to facilitate timber marking.</i></p>

Property: Wolf River Bottoms Wildlife Area – Herb Behnke Unit

Habitat Management Area

<p>MASTER PLAN OBJECTIVES</p>	<p>Management will be in accordance with the general Habitat Management Area Objectives provided in Section One of this chapter.</p>
<p>Appropriate Management Activities or Prescriptions</p>	<ul style="list-style-type: none"> • Follow the applicable Habitat Management Area Prescriptions and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below. • Develop 2 new flowages to enhance habitat for waterfowl. • Reserve from management the 14-acre stand of 180-year-old oak.
<p>Accomplishments 2013</p>	<p><i>Recon data error—there is no 14-acre stand of 180-year-old oak.</i></p> <p><i>41 acres of aspen regeneration and northern hardwood thinning</i></p> <p><i>Embarrass flowage—renovated 3520 feet on the west and south dikes, water control structure placed and 25 foot spillway created with breaker rock in the southeast corner (128 acres).</i></p> <p><i>Egret Flowage—272 feet of dike was renovated on the southeast part, water control structure installed along with a 10 foot grassed spillway (225 acres).</i></p> <p><i>Osprey Flowage—5200 feet of dike was renovated and breaker rock was added around each structure present (738 acres).</i></p> <p><i>Eagle Flowage was drawn down to facilitate the regrowth of aquatic vegetation.</i></p> <p><i>Inspected for muskrat holes and maintained 11.8 miles of dike.</i></p> <p><i>Wild rice management on Goose Flowage brought back habitat after high water levels the previous year.</i></p> <p><i>Two culverts were replaced on Balsam Rd.</i></p>

Special Management Area: Wolf River Bottoms Wildlife Area – Herb Behnke Unit

MASTER PLAN OBJECTIVES	Provide areas and facilities to support routine, seasonal, and incidental operations and administration needs.
Accomplishments 2013	<i>"Sturgeon Camp" was renovated to provide better access for ADA volunteers.</i>

Public Use, Management, and Development: Wolf River Bottoms Wildlife Area – Herb Behnke Unit

<p>MASTER PLAN OBJECTIVES</p>	<p>The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.</p>
<p>Appropriate Management Activities or Prescriptions</p>	<ul style="list-style-type: none"> • Maintain 3 parking areas on the property. • Develop a Class 2 dog training area in the northeast corner of the property, including a 10-car parking area. • Designate Osprey Flowage in the northwest corner of the property (~740 acres) as a waterfowl closed area with no entry during the open migratory bird seasons except for the regular deer gun and muzzleloader seasons. Legally taken migratory birds may be retrieved by hand or dog while not possessing a firearm in posted waterfowl retrieval zones. • Study potential strategies for managing waterfowl hunting pressure on this and adjacent state properties during traditional peak use times to enhance hunting quality.
<p>Accomplishments 2013</p>	<p><i>Parking areas were mowed, litter removed, and signage installed.</i></p> <p><i>New parking area was constructed for the dog training area; another parking area consisting of a mowed area and driveway access was installed to accommodate cars parking on adjacent private land.</i></p> <p><i>Proposal for rule change to establish the waterfowl closed area was submitted.</i></p> <p><i>Issued 6 mobility device access permits.</i></p>

Property: Outagamie Wildlife Area

Habitat Management Area

<p>MASTER PLAN OBJECTIVES</p>	<p>Management will be in accordance with the general Habitat Management Area Objectives provided in Section One of this chapter.</p>
<p>Appropriate Management Activities or Prescriptions</p>	<ul style="list-style-type: none"> • Follow the applicable Habitat Management Area Prescriptions, Aquatic Habitat Overlay Prescriptions, and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below. • Maintain some shrub cover in the southern grassland unit on the east side of the Wolf River for woodcock habitat. • Maintain the pumping station for flowage management.
<p>Accomplishments 2013</p>	<p><i>Timber marked on bottomland hardwood and aspen stands (106 acres total). Additional acres of bottomland hardwoods marked on adjacent stand.</i></p> <p><i>Inspected for muskrat holes and maintained 3 miles of dike.</i></p> <p><i>Pumping station was maintained and ran in early Fall to maintain water level in the flowage at full pool during waterfowl season.</i></p>

Public Use, Management, and Development: Outagamie Wildlife Area

<p>MASTER PLAN OBJECTIVES</p>	<p>The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.</p>
<p>Appropriate Management Activities or Prescriptions</p>	<ul style="list-style-type: none"> • Maintain 4 parking areas on the property. • Open the existing 50-acre closed area to waterfowl hunting in favor of creating a larger closed area as a waterfowl refuge on an adjacent property. • Study potential strategies for managing waterfowl hunting pressure on this and adjacent state properties during traditional peak use times to enhance hunting quality.

Accomplishments 2013	<p><i>Proposal for rule change to remove the waterfowl closed area was submitted.</i></p> <p><i>Signage was replaced for those missing/damaged on waterfowl closed area to clearly post it for hunters (approximately 1.2 miles).</i></p> <p><i>Firewood permit was issued to remove wood off parking lot on Balsam Rd (remains of a timber sale).</i></p> <p><i>Parking areas were mowed, litter removed, and signage installed.</i></p>
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Property: Mack Wildlife Area

Habitat Management Area

MASTER PLAN OBJECTIVES	Management will be in accordance with the general Habitat Management Area Objectives provided in Section One of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Follow the applicable Habitat Management Area Prescriptions and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below. • Consider a coppice cutting or biomass harvest to control the infestation of buckthorn on this property and to reduce competition with aspen. • Manage existing grassland areas as openings within a mosaic of trees and shrubs for woodcock singing and roosting areas.
Accomplishments 2013	<i>Aspen marked, sold and timber sale extension was granted. Bottomland hardwood type to be thinned.</i>

Public Use, Management, and Development: Mack Wildlife Area

MASTER PLAN OBJECTIVES	<p>The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.</p> <ul style="list-style-type: none"> • Maintain 2 parking areas on the property.
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**Accomplishments
2013**

Parking areas mowed, litter removed, and signage installed.

Property: Wolf River Bottoms Wildlife Area – LaSage Unit

Habitat Management Area

<p>MASTER PLAN OBJECTIVES</p>	<p>Management will be in accordance with the general Habitat Management Area Objectives provided in Section One of this chapter.</p>
<p>Appropriate Management Activities or Prescriptions</p>	<ul style="list-style-type: none"> • Follow the applicable Habitat Management Area Prescriptions, Aquatic Habitat Overlay Prescriptions, and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below. • Pursue necessary reconstruction and repair of dikes, water control structures, and culverts in order to continue managing water levels in the impoundment.
<p>Accomplishments 2013</p>	<p><i>Emergency hay permit was issued for area north of the prairie (7 acres).</i></p> <p><i>Firebreaks were established for Spring 2014 prescribed burn.</i></p> <p><i>Sharecrop permit was issued for cool-season grass fields (25 acres).</i></p> <p><i>Boundary painted in preparation for timber sale.</i></p>

Native Community Management Area: LaSage Bottoms State Natural Area

<p>MASTER PLAN OBJECTIVES</p>	<ul style="list-style-type: none"> • Maintain a functioning Floodplain Forest ecosystem that contains many older trees and large-diameter trees, snags, coarse woody debris, smaller patches of younger regenerating forest, habitat for the fullest range of Floodplain Forest species as possible, and minimal populations of invasive exotic species. • Utilize natural processes and active management that mimic natural disturbance.
<p>Accomplishments 2013</p>	<p><i>Forestry recon was updated to reflect the new designation.</i></p> <p><i>Invasive species work done on honeysuckle by NHC crew.</i></p>

Special Management Area: Wolf River Bottoms Wildlife Area – LaSage Unit

MASTER PLAN OBJECTIVES	Reclaim the site and provide a camping area for paddlers making multiple-day float trips on the Wolf River.
Accomplishments 2013	<i>Capital development project to remove the buildings was approved and salvage is planned for Summer 2014.</i>

Public Use, Management, and Development: Wolf River Bottoms Wildlife Area – LaSage Unit

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter. <ul style="list-style-type: none"> • Maintain 1 parking area on the property
Accomplishments 2013	<i>Parking area mowed, litter removed, and signage installed. Issued 1 mobility device access permit.</i>

Property: Hortonville Bog State Natural Area

Native Community Management Area

MASTER PLAN OBJECTIVES	Maintain the site as a reserve for Northern Wet Forest and Black Spruce Swamp communities, as a wetland protection site, and as an ecological reference area.
Accomplishments 2013	<i>No management actions to report.</i>

Public Use, Management, and Development: Hortonville Bog State Natural Area

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Improve the existing parking area in the southwest corner of the property. • Maintain the existing row of trees running in a line east of the parking area to delineate adjacent private land.
Accomplishments 2013	<p><i>Parking area was improved and signage installed.</i></p> <p><i>Sharecropped field was converted to hardwood/conifer mix and mowed several times between the rows.</i></p> <p><i>Deer-proof fence was installed on a portion of the plantation.</i></p>

Property: Wolf River Fishery Area

Native Community Management Area: Lower Wolf and Embarrass River Corridors

MASTER PLAN OBJECTIVES	Follow the description, objectives, and prescriptions for this NCMA on pages 12-15. Below are unique prescriptions for habitats not covered by management of the NCMA.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Maintain or enhance the connection of the canal to the Embarrass River to provide at a minimum a seasonal spring influx of fresh water to avoid stagnation of the canal. • Keep the canal relatively clear of downed trees that would block or significantly reduce the flow of water.
Accomplishments 2013	<i>No management actions to report.</i>

Public Use, Management, and Development: Wolf River Fishery Area

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter. <ul style="list-style-type: none"> • Continue to pursue opportunities to improve access and parking
Accomplishments 2013	<i>No management actions to report.</i>

Property: Mukwa Wildlife Area

Native Community Management Area: Mukwa Bottomland Forest State Natural Area

MASTER PLAN OBJECTIVES	Maintain the site as an old-growth Floodplain Forest preserve, aquatic preserve, wetland protection site, and as an ecological reference area, primarily through natural processes.
Accomplishments 2013	<i>No management actions to report.</i>

Public Use, Management, and Development: Mukwa Wildlife Area

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Maintain 2 parking areas on the property. • Maintain easement agreement with Waupaca County for management and maintenance of the Sturgeon Trail.
Accomplishments 2013	<i>Maintained 2 parking areas on the property.</i>

Property: Shaky Lake State Natural Area

Native Community Management Area

MASTER PLAN OBJECTIVES	Maintain this marl-bottomed bog lake and associated Northern Wet Forest and Northern Sedge Meadow communities.
Accomplishments 2013	<i>No management actions to report.</i>

Public Use, Management, and Development: Shaky Lake State Natural Area

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter. <ul style="list-style-type: none">• Continue to pursue opportunities to improve access.
Accomplishments 2013	<i>Received permission to maintain Road ROW from the town to improve access to the property off of Ledge Hill Road.</i>

Property: Wolf River Wildlife Area

Habitat Management Area

MASTER PLAN OBJECTIVES	Management will be in accordance with the general Habitat Management Area Objectives and Aquatic Habitat Overlay Objectives provided in Section One of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Follow the applicable Habitat Management Area Prescriptions, Aquatic Habitat Overlay Prescriptions, and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below. • Marsh hay cutting may be used as a management tool in some areas.
Accomplishments 2013	<i>Sold and cut 235.5 acres of Marsh Hay under sharecropping agreements.</i>

Public Use, Management, and Development: Wolf River Wildlife Area

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none"> • Maintain 2 parking areas on the property, and develop an additional 4-car parking area. • Maintain 180-acre closed area on the Metzsig Marsh segment as a waterfowl refuge (NR 11.03(11)(a), Wis. Admin. Code). • Evaluate the effectiveness of the closed area in retaining waterfowl use on this property for the benefit of waterfowl hunting in the general area. Propose changes to or elimination of the closed area based on this evaluation.
Accomplishments 2013	<i>Maintained 2 parking lots and created an additional 5-car lot on Marsh Road.</i>

Property: Rat River Wildlife Area

Habitat Management Area

MASTER PLAN OBJECTIVES	Management will be in accordance with the general Habitat Management Area Objectives and Aquatic Habitat Overlay Objectives provided in Section One of this chapter.
Appropriate Management Activities or Prescriptions	<ul style="list-style-type: none">• Follow the applicable Habitat Management Area Prescriptions, Aquatic Habitat Overlay Prescriptions, and Management Prescriptions by Cover Type in Section One of this chapter, unless prescribed otherwise in the site-specific prescriptions below.• Marsh hay cutting may be used as a management tool in some areas.
Accomplishments 2013	<i>Sold and cut 560 acres of Marsh Hay under sharecropping agreements.</i>

Public Use, Management, and Development: Rat River Wildlife Area

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter. <ul style="list-style-type: none">• Maintain 7 parking areas on the property.
Accomplishments 2013	<i>Maintained 7 parking lots by mowing vegetation and picking up garbage.</i>

Property: Winchester Meadow State Natural Area

Native Community Management Area

MASTER PLAN OBJECTIVES	Protect the functioning Northern Sedge Meadow and Emergent Marsh communities present.
Accomplishments 2013	<i>No management actions to report.</i>

Public Use, Management, and Development: Winchester Meadow State Natural Area

MASTER PLAN OBJECTIVES	The following prescriptions support the general public use objectives presented in the Universal Plan Section at the beginning of this chapter. <ul style="list-style-type: none">• Continue to pursue opportunities to improve access.
Accomplishments 2013	<i>No management actions to report.</i>