



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment 111 Entry Year: 2012
Compartment Acreage: 799 County: Delta**

Revision Date: August 25, 2010

Stand Examiner: Bill Rollo and Craig Albright, Wildlife Division

Legal Description: T38N R23W Sections 10, 12, 21, 22 and T38N R22W S7

Identified Planning Goals: Green Bay Lake Plain

Management Goals: This compartment is primarily comprised of Portage Marsh, a Great Lakes coastal marsh located at the south city limits of Escanaba. It also includes an isolated 40-acre parcel on the Ford River and the Ford River outlet to Lake Michigan in the village of Ford River. Management of Portage Marsh is guided by a strategic plan approved in September 2003. This plan is currently undergoing public input and revision. In the past 10 years, the main emphasis of management has been maintenance of natural ecological processes (largely dictated by Great Lakes water levels and fluctuations), control of exotic species (such as *Phragmites*), protection from illegal ORV use, and maintenance of public use amenities (parking lot and walking trail on dike).

Soil and Topography: This wetland complex is located within Sub-Subsection VIII.1.3 (Escanaba/Door Peninsula) of Albert's (1995) regional landscape ecosystems. The marsh system and bay in which it is located occupy a depression where soft gypsums and shales were eroded by glacial and lacustrine processes. Along the sandy shoreline of Lake Michigan, marshes are typically narrow due to severe wave action. Portage Marsh, by virtue of its layout that provides protection from waves, is one of only 2 extensive marshes in this sub-subsection. The landscape in the surrounding area is a sand lake plain forest comprised of mixed hardwoods and conifer swamp.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Portage Marsh is a coastal marsh of Lake Michigan that is bordered by the City of Escanaba to the north and forested, semi-rural land to the west.

Unique, Natural Features: Portage Marsh is a complex of several types of wetland (lake, creek, marsh, wet meadow, shrub swamp), and different species of wildlife are adapted to these different habitats. Examples of wildlife groups that reside at Portage Marsh include ducks, shorebirds, wading birds, gulls, terns, rails, furbearing mammals, frogs, and turtles. Several state threatened species are commonly observed in the marsh, including bald eagles, caspian terns, and common terns. The sand dune on the south edge of Portage Point provides potential habitat for several species of terrestrial plants, including the state and federally threatened pitcher's thistle, dwarf lake iris, and Houghton's goldenrod. Portage Marsh has been designated a Special Conservation Area and is nominated as a Biodiversity Stewardship Area under the category of Great Lakes Marsh.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: In 1986, Portage Marsh was designated as "Environmental Area 3-16" under authority of the Great Lakes Shorelands Protection Act. An

environmental area is an area which is necessary for the preservation and maintenance of fish and wildlife. The act requires a permit before dredging, filling, or vegetative manipulations are undertaken.

Watershed and Fisheries Considerations: Portage Marsh is a spawning ground and “nursery” for several species of Lake Michigan fish. Northern pike, yellow perch, bullhead, and smallmouth bass are examples of species that seek out the shallow, cattail-covered waters of this marsh for egg-laying each spring. Obtaining access to coastal emergent wetlands for spawning is critically important to these fish populations.

Wildlife Habitat Considerations: A strategic plan for Portage Marsh currently is being revised. Key habitat considerations will undoubtedly include continued efforts to control invasive species, particularly *Phragmites*. In addition, the parking lot and dike will continue to be maintained by grading/mowing for public access. Interest has been expressed in construction of a handicap-accessible hunting blind, and this idea will be further explored. Any vegetation or earth-moving treatments that may be conceived in the strategic planning process will also be run through the normal compartment review and environmental permit systems for approval.

Mineral Resource and Development Concerns and/or Restrictions: None known

Vehicle Access: Portage Marsh can easily be accessed from Highway M-35 by driving east about 1 mile on Portage Point 11.4 Lane.

Survey Needs: None

Recreational Facilities and Opportunities: Portage Marsh is valued by sportspersons as a site for waterfowl hunting and furbearer trapping. Although nature observation and other types of “non-consumptive” recreation have long been popular at the marsh, these activities increased greatly with the addition of a dike to Portage Point in 1984. The dike provides an elevated foot-trail through cattail marsh, wet meadow, shrub thicket, and beach. Activities such as walking, nature appreciation, dog exercise, bird watching, photography, swimming, and environmental education now rival hunting and trapping as major recreational pursuits. In 1994, Portage Marsh was selected as one of 121 sites to be listed in the “Michigan Wildlife Viewing Guide.”

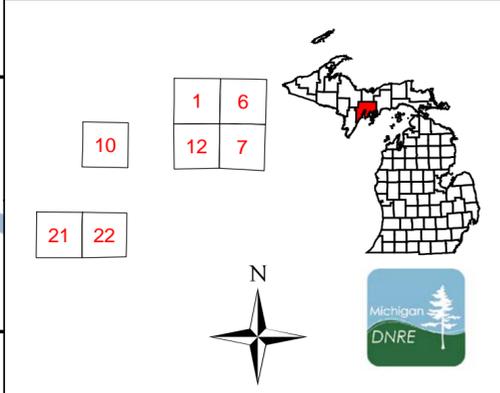
Fire Protection: These wetland areas are not fire prone and have a ready source of open water nearby.

Additional Compartment Information: The following reports from the Inventory are attached:

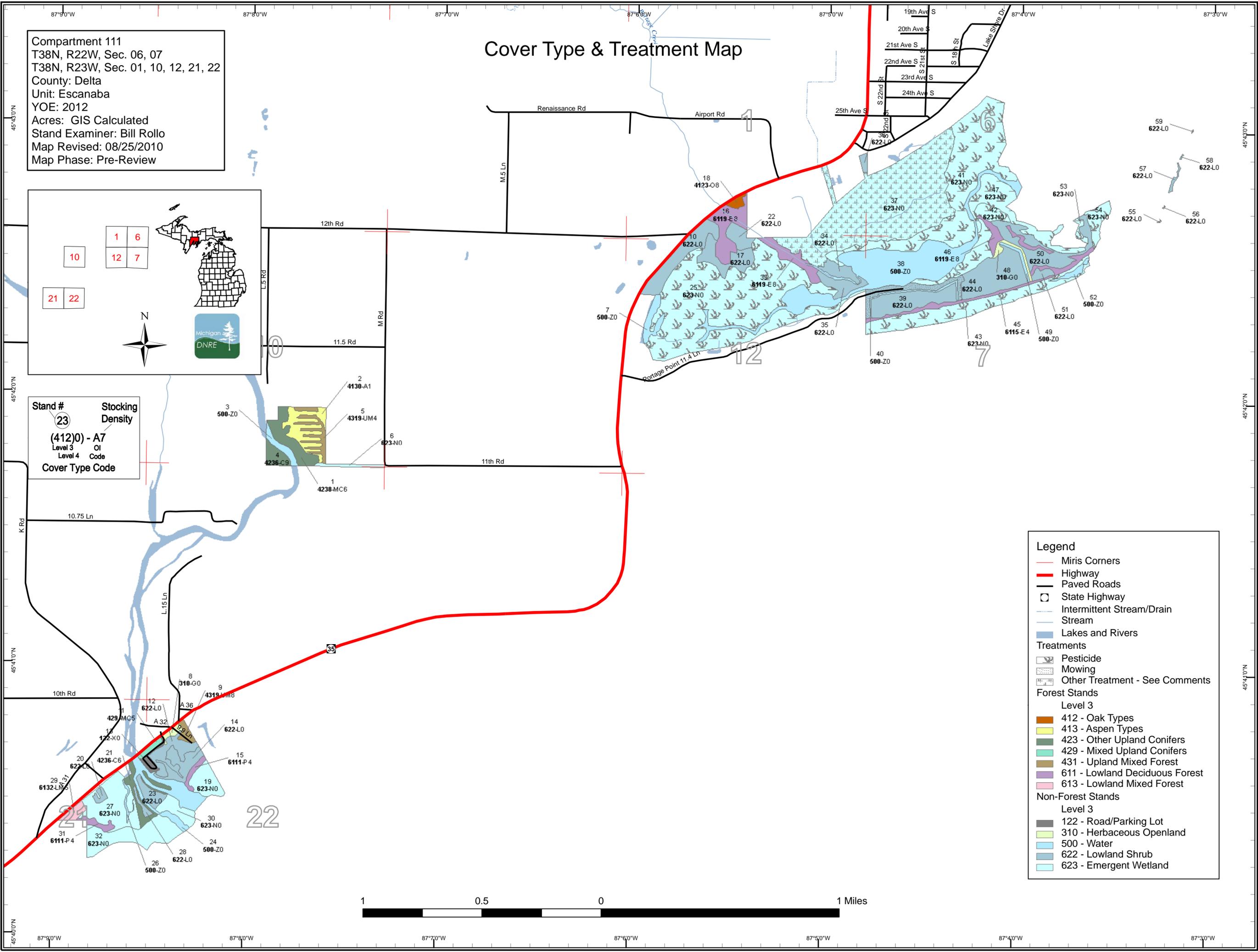
- ◆ Total Acres by Cover Type and Age Class
 - ◆ Proposed Treatment Summary
 - ◆ Proposed Treatments – No Limiting Factors
 - ◆ Proposed Treatments – With Limiting Factors
 - ◆ Stand Details (Forested and Nonforested)
 - ◆ Dedicated and Proposed Special Conservation Areas
- The following information is displayed, where pertinent, on the attached compartment maps:
- ◆ Base feature information, stand boundaries, cover types, and numbers
 - ◆ Proposed treatments
 - ◆ Details on the road access system

Cover Type & Treatment Map

Compartment 111
 T38N, R22W, Sec. 06, 07
 T38N, R23W, Sec. 01, 10, 12, 21, 22
 County: Delta
 Unit: Escanaba
 YOE: 2012
 Acres: GIS Calculated
 Stand Examiner: Bill Rollo
 Map Revised: 08/25/2010
 Map Phase: Pre-Review



Stand #
 (23)
Stocking Density
 (412)0 - A7
 Level 3
 Level 4
Code
Cover Type Code



Legend

- Miris Corners
- Highway
- Paved Roads
- State Highway
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Pesticide
- Mowing
- Other Treatment - See Comments

Forest Stands

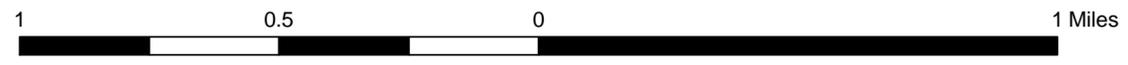
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

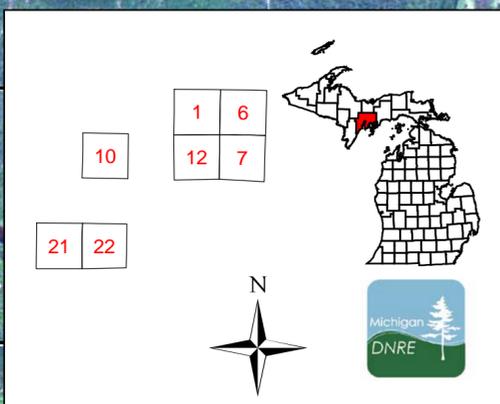
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



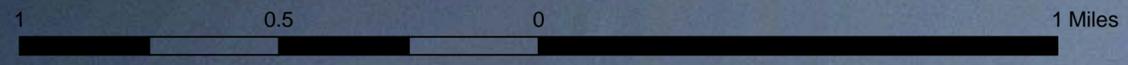
Stand Boundary Map

Compartment 111
 T38N, R22W, Sec. 06, 07
 T38N, R23W, Sec. 01, 10, 12, 21, 22
 County: Delta
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 YOE: 2012
 Acres: GIS Calculated
 Stand Examiner: Bill Rollo
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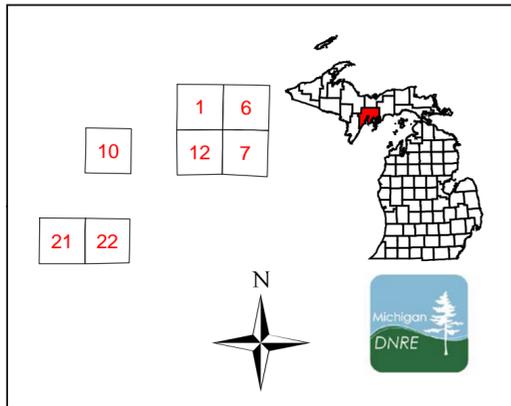
Stand #
 (23)
Stocking Density
 (412)0 - A7
 Level 3
 Level 4
Code
Cover Type Code

- Legend**
- Miris Corners
 - Highway
 - Paved Roads
 - State Highway
 - Stand Boundaries
- Forest Stands**
- Level 3
- 412 - Oak Types
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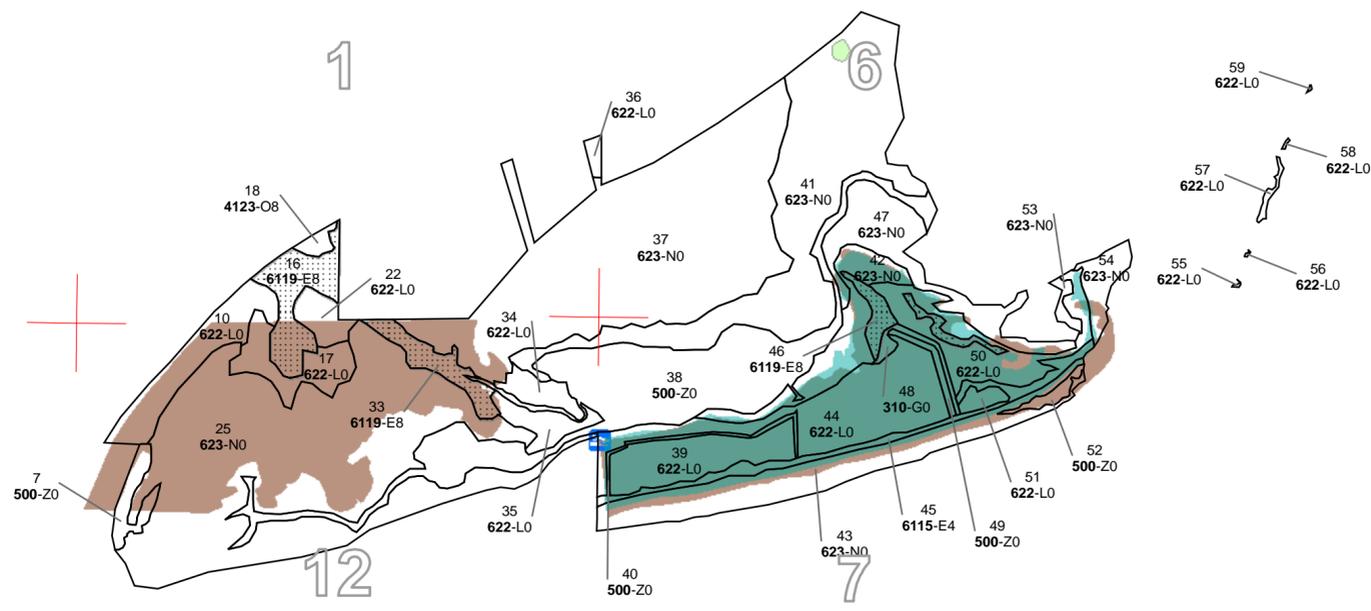
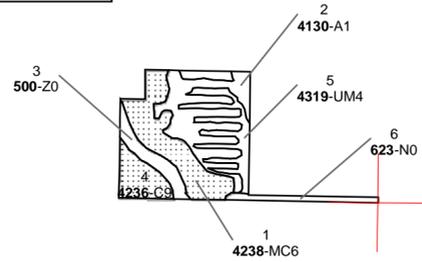


Dedicated & Proposed Special Conservation Area Map

Compartment 111
 T38N, R22W, Sec. 06, 07
 T38N, R23W, Sec. 01, 10, 12, 21, 22
 County: Delta
 Unit: Escanaba
 YOE: 2012
 Acres: GIS Calculated
 Stand Examiner: Bill Rollo
 Map Revised: 08/25/2010
 Map Phase: Pre-Review

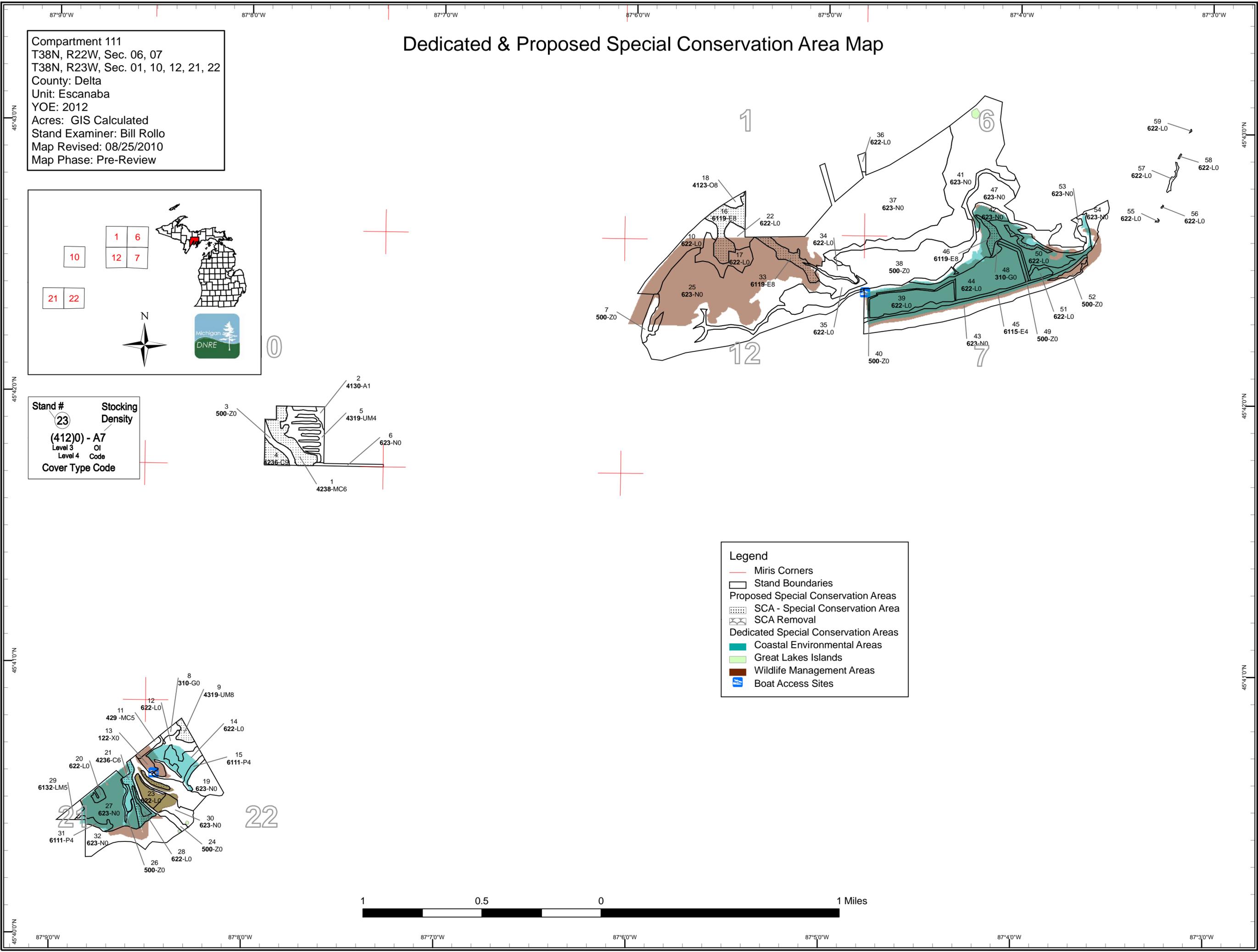
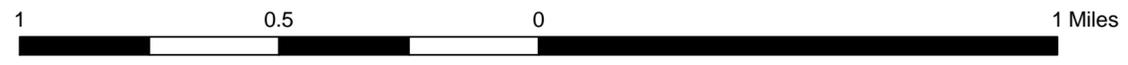
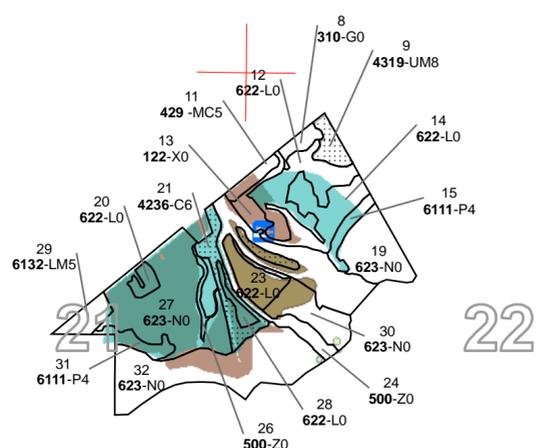


Stand #	Stocking Density
(412)0 - A7	
Level 3	OI
Level 4	Code
Cover Type Code	



Legend

- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal
- Dedicated Special Conservation Areas
- Coastal Environmental Areas
- Great Lakes Islands
- Wildlife Management Areas
- Boat Access Sites





7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
1	Unique Site - SCA	33111001	10.8	Update SCA layer to reflect new stand boundaries. Part that is currently excluded has hemlock.
4	Unique Site - SCA	33111004	4.6	Under original SCA layer. Riparian corridor of the Ford River.
9	Unique Site - SCA	33111009	2.6	This stand has 90 year old white pine that is 19" dbh. Also has 10 inch paper birch and 18 inch red oak.
16	Unique Site - SCA	33111016	13.4	This stand has black willows that have an average DBH 28 that are 74 years old.
21	Unique Site - SCA	33111021	7.0	6-17" DBH Cedar along Ford River and is a multi-polygon stand that offers cover and habitat for wildlife
33	Unique Site - SCA	33111033	7.5	very large willows along Portage Creek which is a natural travel corridor for wildlife and a stream buffer.
46	Unique Site - SCA	33111046	5.5	Larger willows, pine that is within the environmental area of Portage Marsh.



Stand	Cover Type	Acres	Gen Cmts:
3	50 - Water	3.5	
6	6239 - Mixed Emergent Wetland	2.1	This is a drainage ditch along the road. The road is private, but the state owns this ditch to 11th Road.
7	50 - Water	5.0	
8	31021 - Cool Season Grass	1.7	Nice little open field next to the road. A little bit of invasives (spotted knapweed, st. john's wort) present.
10	6220 - Alder/willow	16.1	Trees and buckthorn are found along the west perimeter, a buffer to the highway M-35.
12	6220 - Alder/willow	9.6	Mainly alder, with some open spots and dogwood (red osier?). South of the parking lot, there are some bigger conifer trees present.
13	122 - Road/Parking Lot	2.6	Parking lot to the Ford River Boat Launch. A couple picnic tables present. Popular spot for shore fisherman.
14	622 - Lowland Shrub	8.6	Unable to determine shrub species because of winter conditions and lack of leaves.
17	6229 - Mixed lowland shrub	10.7	A mixture of lowland shrubs and some maple.
19	6239 - Mixed Emergent Wetland	8.6	Below the normal high water mark of Lake Michigan, this stand has a combination of sedges, bulrushes, and cattails. Also, patches of invasive phragmites are growing in. Several muskrat lodges.
20	6220 - Alder/willow	1.5	Dense stand of alders with some sapling tamerack growing along the south edge. Deer beds found within this stand.
22	6220 - Alder/willow	5.2	
23	622 - Lowland Shrub	4.4	Shrub opening found within the center of the forested stand. Unable to determine shrub species due to winter conditions and the lack of leaves.
24	50 - Water	15.4	Mouth of the Ford River.
25	6239 - Mixed Emergent Wetland	134.1	Below the normal high water mark of Lake Michigan, this stand is a nice mixture of cattails, bulrushes, and sedges/grasses.
26	50 - Water	1.0	Water that is filling in with cattails. Water is about 3 feet deep.



Stand	Cover Type	Acres	Gen Cmts:
27	6230 - Cattail	21.9	
28	622 - Lowland Shrub	1.3	Shrub opening found within the center of the forested stand. Unable to determine shrub species due to winter conditions and the lack of leaves.
30	6239 - Mixed Emergent Wetland	6.3	Below the normal high water mark of Lake Michigan, this stand has a combination of sedges, bulrushes, and cattails.
32	6239 - Mixed Emergent Wetland	21.4	Below the normal high water mark of Lake Michigan, this stand has a combination of sedges, bulrushes, and cattails. Also, patches of invasive phragmites are growing in.
34	6220 - Alder/willow	4.9	Two age classes of alders. East half is younger age class of this shrub.
35	6220 - Alder/willow	6.0	Two age classes of alders. East half is younger age class of this shrub.
36	6220 - Alder/willow	1.3	Alders with a few hardwood pole trees (maple) scattered throughout. This stand offers public access to this portion of the marsh.
37	6230 - Cattail	116.4	
38	50 - Water	67.6	Shallow marsh provides great wildlife habitat.
39	6229 - Mixed lowland shrub	17.4	Unable to determine shrub species due to winter conditions.
40	50 - Water	2.1	Part of an existing dike structure. This channel provides habitat for turtles and other water-dwelling animals.
41	6239 - Mixed Emergent Wetland	73.7	Below the normal high water mark of the Great Lakes. Recent lower lake levels in Lake Michigan the past couple years have produced this mixed emergent stand.
42	6230 - Cattail	16.6	
43	6231 - Phragmites	31.7	Over half this stand is covered in invasive phragmites. Below the normal high water mark of Lake Michigan.
44	6229 - Mixed lowland shrub	32.5	Shrub species was not identified due to the lack of leaves. WLD mows the top of the dike system within this stand. Popular for wildlife viewing and dog walking.
47	6239 - Mixed Emergent Wetland	21.5	Below the normal high water mark of Lake Michigan, this stand has a variety of sedges, bulrushes, and cattails. One small patch of invasive phragmites was identified in 2009.



Stand	Cover Type	Acres	Gen Cmts:
48	3105 - Mixed Upland Herbaceous	2.3	Varieties of different plant species. Wetter areas will have wetland indicator plants. Most of the stand is dry, so it is upland. Believe to have a mix of plant species.
49	50 - Water	1.8	Part of an existing dike structure. This channel provides habitat for turtles and other water-dwelling animals.
50	6229 - Mixed lowland shrub	18.5	
51	6229 - Mixed lowland shrub	2.1	
52	50 - Water	2.0	A shallow pond with an outlet to Lake Michigan. A good place to see a greater yellowleg. Carp spawn in this pond in the spring.
53	6230 - Cattail	1.5	Invasive Phragmites found in this stand.
54	6239 - Mixed Emergent Wetland	6.0	Invasive phragmites found in this stand.
55	6229 - Mixed lowland shrub	0.1	Below the normal high water mark of Lake Michigan, these islands have been above the water-line for several years.
56	6229 - Mixed lowland shrub	0.0	Below the normal high water mark of Lake Michigan, these islands have been above the water-line for several years.
57	6229 - Mixed lowland shrub	0.8	Below the normal high water mark of Lake Michigan, these islands have been above the water-line for several years.
58	6229 - Mixed lowland shrub	0.1	Below the normal high water mark of Lake Michigan, these islands have been above the water-line for several years.
59	6229 - Mixed lowland shrub	0.0	Below the normal high water mark of Lake Michigan, these islands have been above the water-line for several years.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	10.8	43		Stand age from previous OI is 66 years (1944). Mixed stand. Really big cedar along the Ford River (some > 20" dbh), along with some ash and maple. North part of this stand is hemlock with a few blowdowns and balsam fir regeneration. Deciduous portions are mostly pole/log maple ash along the river and older aspen mixed in with the conifers. Southern portions has denser conifers with younger cedar mixed in, plenty of DWD and balsam fir regeneration.
2	4130 - Aspen	Low Density Sapling	12.3	15		Cut in 1995. Appears to be cut in strips to stimulate aspen with some leave spruce mixed in. In areas of aspen, 30 ft tall with sub-canopy of balsam fir. Wetter areas has spruce and some balsam fir. Overall, aspen is doing well. Should be a good area to hunt for grouse/woodcock.
4	42360 - Upland Cedar	High Density Log	4.6	84	81-110	A mixed stand with clumps of cedar surrounded by areas of hardwoods. Larger cedar (aged previous yoe at 127 years) along the river, along with a few blowdowns (source of DWD). Some large yellow birch mixed in with the cedar pockets, providing cavities. This stand provides habitat for a variety of wildlife.
5	4319 - Mixed Upland Forest	Low Density Pole	6.7	35	1-50	Bobcat tracks and deer sign. East portion is pretty open with 20 ft spruce and balsam fir. Strips has aspen in it with smaller spruce understory. One hemlock and one white pine present. Stand age was determined by counting age on aspen.
9	4319 - Mixed Upland Forest	Medium Density Log	2.6	90		Clumps of super-canopy white pines. Four oak trees close to M-35 are approximately 18" to 22" dbh. Two large willows alongside the edge. White pine regeneration along perimeter, along the G-type. Black squirrel nests and fox tracks. Some blowdowns and cavity trees present.
11	429 - Mixed Upland Conifers	Medium Density Pole	1.8	55		Small stand. Due to digitizing, 1/2 of M-35 is included in this stand. Only about 1 acre in size. Part of the Ford River Boat Launch area. East 1/6th of acre has a clump of pole/sapling spruce, trace of aspen and some white pine. Center has balsam poplar and one apple tree. Rest is mainly cedar with ash mixed in. No browse on the cedar, the branches goes all the way to the ground.
15	6111 - Lowland Balsam Poplar	Low Density Pole	2.2	24		Windbreak of trees between the shrub areas of state ownership and Lake Michigan.
16	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	13.4	74		Large willows along the edge of the Portage Creek as it empties into Portage Marsh. There is not a straight log present. This is a natural travel corridor for any wildlife species that is entering or exiting the marsh.
18	4123 - Red Oak	Medium Density Log	1.7	65	1-50	Small upland stand. Alongside M-35. 50-70BA, pretty open. 6" seedling oak regeneration and 1 foot white pine regeneration. White pine range from 5" dbh to 24" dbh. Oak can be found up to 22" dbh. Black squirrel nests and plenty of squirrel tracks.
21	42360 - Upland Cedar	High Density Pole	7.0	90	1-50	Cedar range from 6" dbh to 17" dbh. Higher ground, narrow ridge. Used for travel by several furbearing small mammals.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	2.8	40		Along M-35, appears to be on a poor site. Cedar is regenerating from blown over tops. GPS'd the property corner. Cedar is 5" dbh or less. Mixed with tag alder and buckthorn.
31	6111 - Lowland Balsam Poplar	Low Density Pole	2.4	23		Narrow stand of balsam poplar with a couple of bigger maples mixed in. Pheasant tracks present. Tag alders present in 50% of the stand.
33	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	7.5	74		Large willows alongside Portage Creek as it enters into Portage Marsh. This is a natural travel corridor for any wildlife species that is entering and exiting the marsh. Stick nest present.
45	6115 - Lowland Ash	Low Density Pole	9.8	45		Windbreak between the south side of Portage Point and the shrub-types found in the state ownership of Portage Marsh. Appears to be a poor, sandy site. Aspen is small diameter and some are already falling over.
46	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	5.5	75		The large, crooked tree willows does not have a straight log. One red pine, 2 white pines, and 1 cedar present in this stand. The red pine has a dbh of 17" and is 67 years old. May want to remove the old wood-duck boxes from this stand, they are non-functional and is becoming litter.



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Data updated before 10:00 AM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

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Data updated before 10:00 AM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25 NF_33111025- Spray	134.1	Non-Forested		0	Pesticide	Backpack Mist Blower	Mixed Emergent Wetland	Cmpt. Review Proposal

Prescription: Invasive phragmites will be treated if found within this stand. Glyphosate or imazypr formulation may be used. To reduce disturbance, a backpack sprayer will be used.

Other Comments:

Next Steps: Any invasive phragmites patch will be mechanically mowed with a weedwhacker in the winter following treatment. Monitoring and spot treatment(s) will occur, if necessary.

41 NF_33111041- Spray	73.7	Non-Forested		0	Pesticide	Backpack Mist Blower	Mixed Emergent Wetland	Cmpt. Review Proposal
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Prescription: Invasive phragmites will be treated if found within this stand. Glyphosate or imazypr formulation may be used. To reduce disturbance, a backpack sprayer will be used.

Other Comments:

Next Steps: Any invasive phragmites patch will be mechanically mowed with a weedwhacker in the winter following treatment. Monitoring and spot treatment(s) will occur, if necessary.

42 NF_33111042- Spray	16.6	Non-Forested		0	Pesticide	Backpack Mist Blower	Cattail	Cmpt. Review Proposal
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Prescription: Invasive phragmites will be treated if found within this stand. Glyphosate or imazypr formulation may be used. To reduce disturbance, a backpack sprayer will be used.

Other Comments:

Next Steps: Any invasive phragmites patch will be mechanically mowed with a weedwhacker in the winter following treatment. Monitoring and spot treatment(s) will occur, if necessary.

43 NF_33111043- Spray	31.7	Non-Forested		0	Pesticide	Other - Specify in Comments	Mixed Emergent Wetland	Cmpt. Review Proposal
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Prescription: Invasive phragmites will be controlled within this stand. Since acreage is too large for backpack sprayer, appropriate equipment will be used.

Specs: May be contracted out.

Other Comments:

Next Steps: Mechanical removal of dead phragmites in the winter following treatment. Monitoring and spot treatment in future years, if necessary.

47 NF_33111047- Spray	21.5	Non-Forested		0	Pesticide	Backpack Mist Blower	Mixed Emergent Wetland	Cmpt. Review Proposal
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Prescription: Invasive phragmites will be treated if found within this stand. Glyphosate or imazypr formulation may be used. To reduce disturbance, a backpack sprayer will be used.

Other Comments:

Next Steps: Any invasive phragmites patch will be mechanically mowed with a weedwhacker in the winter following treatment. Monitoring and spot treatment(s) will occur, if necessary.

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Data updated before 10:00 AM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53 NF_33111053-Spray	1.5	Non-Forested		0	Pesticide	Backpack Mist Blower	Cattail	Cmpt. Review Proposal

Prescription Invasive phragmites will be treated if found within this stand. Glyphosate or imazypr formulation may be used. To reduce disturbance, a backpack sprayer will be used.

Other
Comments:

Next
Steps: Any invasive phragmites patch will be mechanically mowed with a weedwhacker in the winter following treatment. Monitoring and spot treatment(s) will occur, if necessary.

54 NF_33111054-Spray	6.0	Non-Forested		0	Pesticide	Other - Specify in Comments	Mixed Emergent Wetland	Cmpt. Review Proposal
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Prescription Invasive phragmites will be controlled within this stand. Option to use backpack sprayer or contracted equipment if acreage is too large for one person. May be contracted out.

Other
Comments:

Next
Steps: Mechanical removal of dead phragmites in the winter following treatment. Monitoring and spot treatment in future years, if necessary.

44 NF_33111044-NonFor	8.5	Non-Forested		0	Non-Forest Management	Mowing	Mixed lowland shrub	Cmpt. Review Proposal
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Prescription Mowing on top of existing dike system for dog walkers and wildlife viewer. Steps will be taken to reduce disturbance. Brush management will only occur if determined to be necessary by WLD staff to promote wildlife viewing.

Other
Comments: Current DEQ permit.

Next
Steps:

37 NF_33111037-Other	116.4	Non-Forested		0	Other	Unspecified	Cattail	Cmpt. Review Proposal
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Prescription An osprey platform will be placed in stand, if there is interest from a non-profit group to purchase one. The platform will be placed in winter and monitored for osprey use. If an osprey does not occupy the platform within 7 years, the platform will be taken out of the stand.

Other
Comments: This marsh provides an ideal location for an osprey, but none are found nesting here. If an osprey occupies this site, it may provide additional recreational viewing opportunities for bird watchers.

Next
Steps: Write proposal to non-profit asking if they are interested in purchasing a nesting platform. Monitor nesting platform for osprey activity. Remove nesting platform if no activity is found within 7 years.

Total Treatment
Acreage Proposed: 409.9



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Escanaba Mgt. Unit
Year of Entry 2012

Compartment 111
Total Compartment Acres: 799

Acres by Treatment Type

Commercial Harvest - 0	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 116
Habitat Cut - 0	Opening Maintenance - 8	Tree Seeding - 0	Pesticide - 285	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
Total	#Error	#Error	#Error	#Error	#Error	#Error	#Error

Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unretn Age
Aspen	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Cedar	0	0	0	0	0	0	0	0	0	5	7	0	0	0	0	12
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	0	0	0	10	0	0	26	0	0	0	0	0	0	36
Lowland Mixed Forest	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Lowland Shrub	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Marsh	462	0	0	0	0	0	0	0	0	0	0	0	0	0	0	462
Oak	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	11	2	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	0	7	0	0	0	0	0	3	0	0	0	0	9
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Total	708	0	12	5	7	23	2	2	26	5	10	0	0	0	0	799



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Data updated before 10:00 AM

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.
SCA	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.