



**Shingleton Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment #124                      Entry Year: 2012**  
**Compartment Acreage: 1887    County: Schoolcraft**

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**Revision Date:** October 26, 2010

**Stand Examiner:** Robert Tylka

**Legal Description:** T46N-R14W, Sections 1-3, 11 and 12

**Identified Planning Goals ('Management Area' or 'RMU', if applicable):** This compartment is within the Fox River Complex Management Area.

**Management Goals:** Timber management and wildlife habitat are the primary goals. In addition to these, the Fox River HCVA (natural river) is managed for a variety of values in accordance with the Fox River Plan.

**Soil and Topography:** This compartment features a combination of mostly flat ground on the Seney Drainage LTA and flat-to-gently-rolling ground on the Kingston Outwash LTA. In general, this combination displays low areas that are often poorly drained and dryer upland sites on well-drained, sandy soils.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The area is mainly comprised of large contiguous blocks of state forest land, along with a few parcels of commercial forest timberlands held by large corporations. There are a few smaller private parcels scattered throughout the general area, but these represent a very small percentage of the township. Aside from woods roads, development is extremely limited.

**Unique, Natural Features:** Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Fox River. There is also potential for nesting Northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of red pine.

**Archeological, Historical, and Cultural Features:** Ernest Hemingway wrote of fishing in the area – many believe he was actually writing about the Fox River vice the Two-Hearted River in Luce County.

**Special Management Designations or Considerations:** The Fox River is designated as a natural river, and the Fox River Plan specifies parameters for resource management within the HCVA.

**Watershed and Fisheries Considerations:** Fisheries Values, Excellent. The Fox River is classified First Quality CW. And the small tributaries to the north and east are classified as SQCW. The Fox River system attracts anglers from other states, Europe and even Australia! (Blame the number of anglers on Ernest Hemingway...) Our stream enhancement work ten years ago is now starting to pay off, with somewhat less sand throughout the system, more exposed gravel, and deeper scour holes now present in the river. We have recently cut back our stocking, to allow for and to verify increased natural trout production.

**Wildlife Habitat Considerations:** This compartment is located in the Seney Sand Lake Plain ecological subsection. The growing season within this area ranges from 100 to 130 days with an average annual snowfall of approximately 120 inches. The extreme minimum winter temperature is approximately -40° F. General Land Office notes show the majority of upland forests within this compartment were dominated by white pine, beech, white birch and red pine. Black spruce, tamarack, and cedar persisted in the lowlands. The primary natural disturbance within

this area was most likely fire, however beaver ponding surely occurred along the Fox River. Logging and slash fires impacted the vegetation and soils. Currently red pine is the dominant upland forest type. Mixed conifers including black spruce, tamarack, and red pine occupy a fair portion of the lowlands. A few white pine stands still exist along the Fox River. The wildlife habitat management objective for this compartment is to maintain structural and species diversity within the forest across the compartment. There are no known endangered, threatened, or special concern species within this compartment. Wildlife species of interest utilizing this compartment include the saw-whet owl, northern flying squirrel, and black bear.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and glacial outwash sand and gravel and postglacial alluvium (from south to north). There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Limestone subcrops below the glacial drift. The Trenton is used for stone/dolomite. There are not any gravel pits in the area. There appears to be limited gravel potential on State lands.

**Vehicle Access:** Primary access is from the Sunken lake Rd. via Reservoir Dam Rd.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:** This compartment has no developed recreational facilities, but does receive light pressure hunting and fishing from the local population for. The Fox River itself is heavily fished.

**Fire Protection:** Access to some areas is difficult due to wet, impassable terrain.

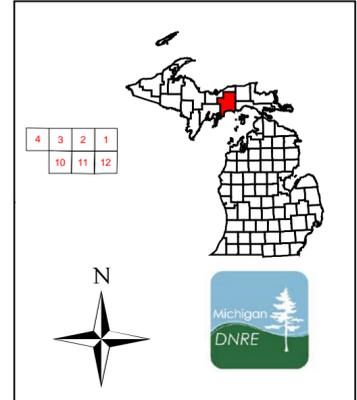
**Additional Compartment Information:**

- **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 124  
 T46N, R14W, Sec. 1-4, 10-12  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2012  
 Acres: 1,888 GIS Calculated  
 Stand Examiner: Bob Tylka  
 Map Revised: 10/13/2010  
 Map Phase: Pre-Review

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



**Legend**

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- Poor Dirt Roads
- Trails
- Snowmobile Trails
- Hiking Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)

**Forest Stands**

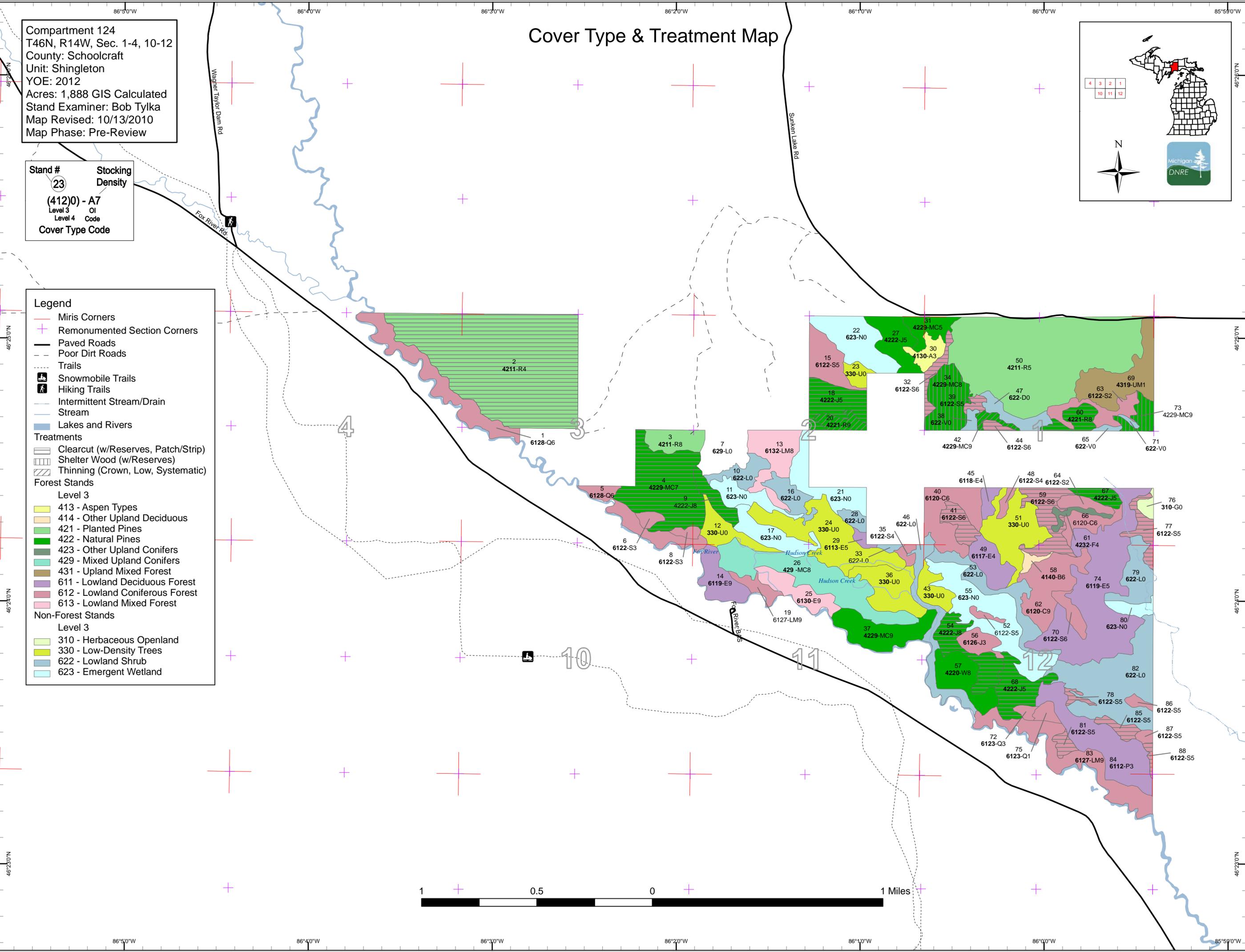
Level 3

- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

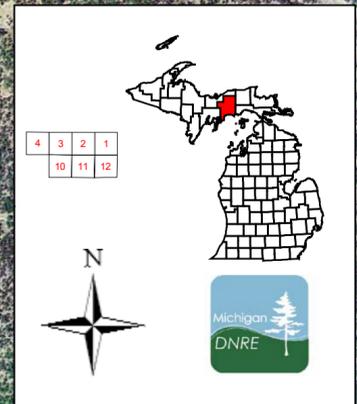
Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



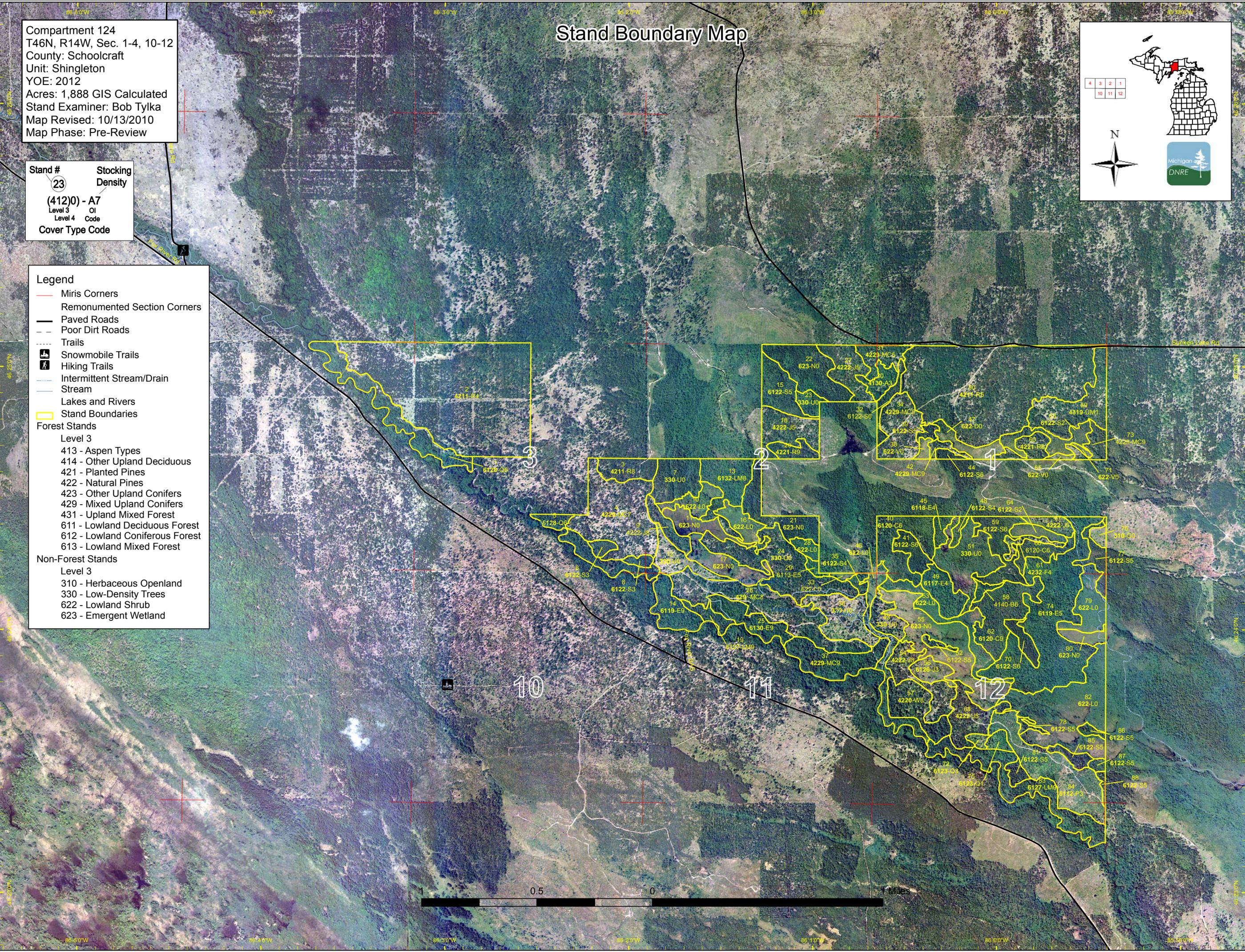
# Stand Boundary Map

Compartment 124  
 T46N, R14W, Sec. 1-4, 10-12  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2012  
 Acres: 1,888 GIS Calculated  
 Stand Examiner: Bob Tylka  
 Map Revised: 10/13/2010  
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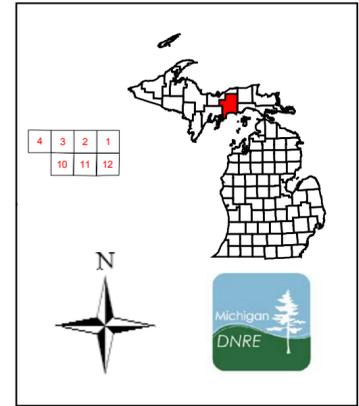
**Stand #**  
 23  
**Stocking Density**  
 (412)0) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

- Legend**
- Miris Corners
  - Remonumented Section Corners
  - Paved Roads
  - - - Poor Dirt Roads
  - ... Trails
  - ⊞ Snowmobile Trails
  - ⊞ Hiking Trails
  - Intermittent Stream/Drain
  - Stream
  - Lakes and Rivers
  - ▭ Stand Boundaries
- Forest Stands**
- Level 3
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- Level 3
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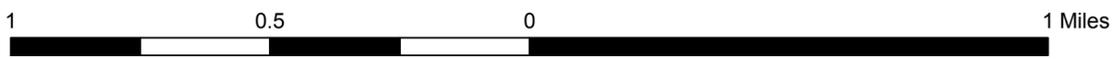
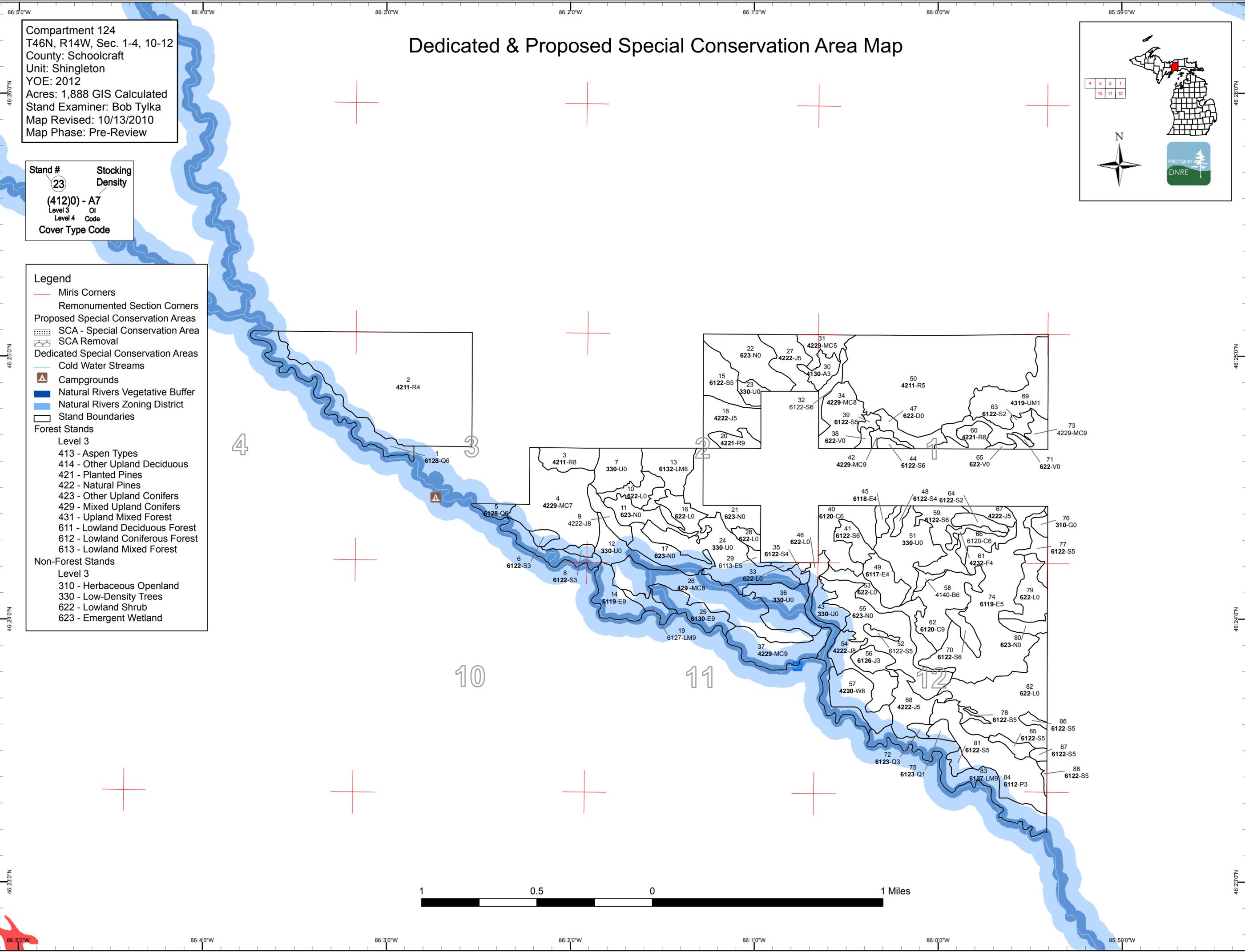
# Dedicated & Proposed Special Conservation Area Map

Compartment 124  
 T46N, R14W, Sec. 1-4, 10-12  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2012  
 Acres: 1,888 GIS Calculated  
 Stand Examiner: Bob Tylka  
 Map Revised: 10/13/2010  
 Map Phase: Pre-Review



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

- Legend**
- Miris Corners
  - Remonumented Section Corners
  - Proposed Special Conservation Areas
  - SCA - Special Conservation Area
  - SCA Removal
  - Dedicated Special Conservation Areas
  - Cold Water Streams
  - Campgrounds
  - Natural Rivers Vegetative Buffer
  - Natural Rivers Zoning District
  - Stand Boundaries
  - Forest Stands
    - Level 3
    - 413 - Aspen Types
    - 414 - Other Upland Deciduous
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 423 - Other Upland Conifers
    - 429 - Mixed Upland Conifers
    - 431 - Upland Mixed Forest
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    - 612 - Lowland Coniferous Forest
    - 613 - Lowland Mixed Forest
  - Non-Forest Stands
    - Level 3
    - 310 - Herbaceous Openland
    - 330 - Low-Density Trees
    - 622 - Lowland Shrub
    - 623 - Emergent Wetland



46 23 00"N 86 50 00"W 86 40 00"W 86 30 00"W 86 20 00"W 86 10 00"W 86 00 00"W 85 59 00"W

**Table 1 – Total Acres by Cover Type and Age Class**

Data updated before 2:00 PM



	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 +		Uneven Age
Aspen	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	76	0	0	0	0	0	76
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	0	10	0	20	0	23	7	55	0	0	0	0	0	0	116
Low-Density Trees	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150
Lowland Aspen/Balsam Poplar	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Conifers	0	0	8	0	0	0	0	0	0	0	0	0	63	0	42	113
Lowland Deciduous	0	0	0	0	0	0	0	0	8	19	0	0	0	0	121	148
Lowland Mixed Forest	0	0	0	0	0	0	0	0	27	0	0	0	0	0	19	46
Lowland Shrub	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
Lowland Spruce/Fir	0	0	0	7	7	0	0	0	78	48	0	0	0	0	2	143
Marsh	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
Natural Mixed Pines	0	0	0	0	0	13	0	0	0	4	0	0	0	29	101	147
Paper Birch	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	363	8	0	15	0	0	11	0	0	0	398
Treed Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	59
Upland Mixed Forest	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	24
<b>Total</b>	<b>513</b>	<b>46</b>	<b>67</b>	<b>7</b>	<b>28</b>	<b>376</b>	<b>32</b>	<b>11</b>	<b>183</b>	<b>147</b>	<b>0</b>	<b>11</b>	<b>88</b>	<b>29</b>	<b>349</b>	<b>1886</b>



## Table 2 – Proposed Treatment Summaries

*Data updated before 2:00 PM*

**Shingleton Mgt. Unit**  
**Year of Entry 2012**

**Compartment 124**  
**Total Compartment Acres: 1886**

### Acres by Treatment Type

Commercial Harvest - 475	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Jack Pine</b>	86	0	0	0	0	0	<b>86</b>
<b>Lowland Spruce/Fir</b>	71	0	0	0	0	0	<b>71</b>
<b>Natural Mixed Pines</b>	64	0	0	37	4	0	<b>105</b>
<b>Red Pine</b>	205	0	0	0	8	0	<b>213</b>
<b>Total</b>	<b>426</b>	<b>0</b>	<b>0</b>	<b>37</b>	<b>12</b>	<b>0</b>	<b>475</b>



Data updated before 2:00 PM

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	41124002-Cut	193.8	42110 - Planted Red Pine	Low Density Pole	49	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal

PrescriptionSpecs:Other Under contract TS 41-026-09-01Comments:NextSteps:

4	41124004-Cut	63.8	42290 - Natural Mixed Pine	Low Density Log	72	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Mgt objective = jack pine. Reserve oak, hemlock and some scattered red & white pine to act as seed trees; cut all other merchantable wood. Do not cut the 5-7 acre open area on the eastern edge of the stand (adjacent to stand #12.)

OtherComments:

Next Regenerate jack pine by using any of the following methods: machine plant, trench & handplant, trench & seed and/or herbicide. Not enough tops will be left on the ground to provide adequate seed for scarification alone to be sufficient. All pines are acceptable regeneration.

9	41124009-Cut	9.8	42220 - Natural Jack Pine	Medium Density Log	72	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Cut and regenerate jack pine. Reserve red & white pine plus any paper birch, oak and hemlock encountered.

Specs:OtherComments:

Next Regenerate jack pine by using any of the following methods: scarification, machine plant, trench & handplant, trench & seed, prescribed fire and/or herbicide. All pines are acceptable regeneration.

18	41124018-Cut	23.5	42220 - Natural Jack Pine	Medium Density Pole	50	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Mgt Objective = jack pine. Reserve red & white pine, paper birch and any oak & hemlock encountered.

Specs:OtherComments:

Next Regenerate jack pine by using any of the following methods: scarification, machine plant, trench & handplant, trench & seed, prescribed fire and/or herbicide. All pines are acceptable regeneration.

20	41124020-Cut	8.2	42210 - Natural Red Pine	High Density Log	50	Harvest	Low Thinning	Natural Red Pine	Cmpt. Review Proposal
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Prescription Thin red & white pine; reserve paper birch and any oak encountered. Cut all aspen & jack pine.

Specs:OtherComments:NextSteps:



Data updated before 2:00 PM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41124032-Cut	6.9	6122 - Black Spruce	High Density Pole	80	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal

Prescription Reserve red & white pine, cedar and any hemlock encountered.

Specs:

Other

Comments:

Next Steps: All species present are acceptable regeneration.

41124034-Cut	27.8	42290 - Natural Mixed Pine	Medium Density Log	80	Harvest	Shelterwood	Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Mark red & white pine down to 80 sq.ft./acre where it can be held this high; cut the rest except for any hemlock, oak or cedar encountered.

Specs:

Other

Comments:

Next Steps: Scarify to promote natural mixed pine regeneration. All species present are acceptable regeneration.

41124039-Cut	3.1	6122 - Black Spruce	Medium Density Pole	80	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
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Prescription Reserve red & white pine, cedar and any hemlock encountered.

Specs:

Other

Comments:

Next Steps: All species present are acceptable regeneration.

41124041-Cut	10.6	6122 - Black Spruce	High Density Pole	75	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
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Prescription Reserve red & white pine and hemlock.

Specs:

Other

Comments:

Next Steps: All species present are acceptable regeneration.

41124042-Cut	4.0	42290 - Natural Mixed Pine	High Density Log	80	Harvest	Crown Thinning	Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Cut the aspen, jack pine and any red maple that can be harvested w/o creating erosion problems on the steep sides of the ridge. May also thin red & white pine for access as needed/desirable.

Other Comments: This stand is on a sandy ridge with a road running along its crest. Erosion control measures such as scattering slash along skidding routes will be critical to avoiding post-harvest problems.

Next

Steps:

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Data updated before 2:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44 41124044-Cut	2.7	6122 - Black Spruce	High Density Pole	80	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal

Prescription Reserve the red & white pine, cedar, paper birch and any hemlock encountered.

Specs:

Other

Comments:

Next Steps: All species present are acceptable regeneration.

54 41124054-Cut	22.6	42220 - Natural Jack Pine	Medium Density Log	70	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Reserve the red & white pine, plus the few scattered paper birch. Mgt obj = jack pine.

Specs:

Other Comments: HCVA - Fox River - Maintain an adequate buffer along Hudson Creek (west end of stand) per the Fox River Plan.

Next Steps: Regenerate jack pine by using any of the following methods: scarification, machine plant, trench & handplant, trench & seed, prescribed fire and/or herbicide. All pines are acceptable regeneration.

59 41124059-Cut	23.1	6122 - Black Spruce	High Density Pole	75	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
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Prescription Reserve red & white pine, hemlock (if present), cedar and paper birch.

Specs:

Other

Comments:

Next Steps: All species present are acceptable regeneration.

60 41124060-Cut	10.9	42210 - Natural Red Pine	Medium Density Log	100	Harvest	Clearcut with Reserves	Natural Red Pine	Cmpt. Review Proposal
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Prescription Reserve the red & white pine, plus any oak & paper birch present. Cut all spruce, including those on the fringe of the upland fingers; run the treatment area out to the road just north of the stand in the area where merchantable spruce is present. The treatment area will include some pockets of submerchantable lowland conifers; these may be left intact as retention areas.

Other

Comments:

Next Steps: All species present are acceptable regeneration.

67 41124067-Cut	7.5	42220 - Natural Jack Pine	Medium Density Pole	67	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Reserve red & white pine and any oak encountered. Mgt. Obj. = jack pine.

Specs:

Other

Comments: All pines are acceptable regeneration.

Next Steps: Regenerate jack pine by using any of the following methods: scarification, machine plant, trench & handplant, trench & seed, prescribed fire and/or herbicide. All pines are acceptable regeneration.

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
68 41124068-Cut	22.7	42220 - Natural Jack Pine	Medium Density Pole	71	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal

Prescription Reserve the red & white pine, paper birch, and the scattered cherry. Mgt. Obj. = jack pine.

Specs:

Other Comments: HCVA - Fox River: The south end of the stand is close to the required buffer along the Fox River - make sure that the buffer zone is maintained. All pines are acceptable regeneration.

Next Steps: Regenerate jack pine by using any of the following methods: scarification, machine plant, trench & handplant, trench & seed, prescribed fire and/or herbicide. All pines are acceptable regeneration.

73 41124073-Cut	9.3	42290 - Natural Mixed Pine	High Density Log	100	Harvest	Shelterwood	Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Cut all the spruce, jack pine and scattered aspen; mark the red & white pine down to 80 sq.ft./acre where it can be held this high; cut the rest except for any hemlock, oak or cedar encountered.

Specs:

Other Comments:

Next Steps: Logging should provide sufficient scarification for natural regeneration on the higher ground, and the spruce should regenerate on the lower ground without any cult work. All species present are acceptable regeneration.

77 41124077-Cut	10.1	6122 - Black Spruce	Medium Density Pole	75	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
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Prescription Reserve any hemlock and cedar encountered in the stand.

Specs:

Other Comments:

Next Steps: All species present are acceptable regeneration.

78 41124078-Cut	2.7	6122 - Black Spruce	Medium Density Pole	75	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
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Prescription Reserve any red & white pine, cedar and hemlock encountered in the stand.

Specs:

Other Comments:

Next Steps: All species present are acceptable regeneration.

81 41124081-Cut	4.6	6122 - Black Spruce	Medium Density Pole	75	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Reserve any hemlock and cedar encountered in this stand. Any mix of aspen & conifers is acceptable regeneration.

Specs:

Other Comments: HCVA - Fox River: Part of the stand falls close to the required buffer zone along the river - make sure that the buffer is maintained when laying out the sale area.

Next Steps: All species present are acceptable regeneration.

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Data updated before 2:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
85 41124085-Cut	5.6	6122 - Black Spruce	Medium Density Pole	75	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal

Prescription Reserve the red & white pine, and any hemlock & cedar encountered.

Specs:

Other

Comments:

Next Steps: All species present are acceptable regeneration.

88 41124088-Cut	1.9	6122 - Black Spruce	Medium Density Pole	71	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
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Prescription Reserve the white pine plus any red pine, cedar & hemlock found in the stand.

Specs:

Other

Comments:

Next Steps: Acceptable regeneration includes all conifers and aspen.

**Total Treatment  
Acreage Proposed: 475.1**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Limiting Factor and No  
Treatment Reason

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**Total Treatment**  
**Acreage Proposed: 0**



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41039_OutOfY OE-Cut	14.6				Harvest	Clearcut with Reserves	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. Leave a few red pine and white pine for seed.								
<u>Specs:</u>								
<u>Other Comments:</u> Access to this stand will involve the installation of a temporary bridge. This could be built and placed by the logger west of this stand. Winter harvest may be needed. Survey work may be needed. There is a creek / drainage located in southern part of stand, it runs east/west. Buffer 50 feet. Buffer Smith creek 100 feet. These will be the retention areas. East edge of stand has some cedar. Cedar can be cut, but sale boundary should exclude the very dense patches.								
<u>Next Steps:</u> Plant red pine on ridges to maintain component. Low ground should regenerate to mixed species. Acceptable management objectives includes any species mixture currently found onsite.								
41049_OutOfY OE-Cut	15.3				Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all species except red pine ,oak, white pine, and hemlock. Red pine and white pine should be marked. Create regeneration holes where available and thin thicker areas of poles.								
<u>Specs:</u>								
<u>Other Comments:</u> See MNFI comments. Winter harvest will be needed due to road conditions into treatment area. Buffer on Walsh Ditch should be placed at the bottom of spoils. Protect existing red pine and white pine regeneration.								
<u>Next Steps:</u> Natural regeneration of red pine, jack pine, and white pine is acceptable. Plant red pine if regeneration fails.								
41088_OutOfY OE-Cut	2.3				Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Mark red pine and white pine to 50 sq. ft. basal area to thicken crowns and prepare for regeneration harvest next year of entry. Cut all other species except hemlock and oak.								
<u>Specs:</u>								
<u>Other Comments:</u> Set up treatment as soon as it is approved at compartment review in order to combine it into one timbersale with Comparment 88, stand 43. No additional retention, small stand.								
<u>Next Steps:</u> Evaluate stand next year of entry for possible regeneration harvest. Try to maintain management objective of natural red pine.								
41118_OutOfY OE_1-Cut	8.6				Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all Jack Pine and mark Red and White Pine to 90 BA								
<u>Specs:</u>								
<u>Other Comments:</u> Cut with stand 34 comp 117								
<u>Next Steps:</u>								
41179_OutOfY OE-Cut	4.2				Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Cut to 80 SF using selection system. Release crop trees using the complete marker as a guide, mark for best tree in place. This stand has some species variation across it, thin to improve diversity favor retention of mesic conifers. In areas of beech use beach bark marking guidelines. Place gaps in areas of less shade tolerant species. Cut aspen clones for aspen regeneration. Leave some single aspen trees where possible for soft snags.								
<u>Specs:</u>								
<u>Other Comments:</u> Acceptable regeneration is a mix of hardwood species including Sugar maple, Red maple, Basswood, Black Cherry, Yellow Birch, Aspen, White Birch, Hemlock and White Pine								
<u>Next Steps:</u>								
<b>Total Treatment Acreage Proposed:</b>		<b>45.1</b>						



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	35.6	110	81-110	Lowlands along the banks of the Fox River - the area is actually a mix of lowland and upland-to-lowland transitional habitat. The understory is fully stocked with a mix of species but balsam fir & red maple are dominant. Unevenaged characteristics are developing. This is an important wildlife corridor.
2	42110 - Planted Red Pine	Low Density Pole	193.8	49	81-110	RP planted in 1961 - Already prepped for sale.
3	42110 - Planted Red Pine	Medium Density Log	15.0	72	81-110	
4	42290 - Natural Mixed Pine	Low Density Log	63.8	Uneven Age	51-80	Multi-storied/semi-open stand - open areas are slowly filling in with pine.
5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	20.6	110	81-110	Lowlands along the banks of the Fox River - the area is actually a mix of lowland and upland-to-lowland transitional habitat. The understory is fully stocked with a mix of species but balsam fir & red maple are dominant. Unevenaged characteristics are developing. This is an important wildlife corridor.
6	6122 - Black Spruce	High Density Sapling	4.0	34	1-50	Cut in 1976.
8	6122 - Black Spruce	High Density Sapling	3.3	34	1-50	Mixed lowland conifers - black spruce is dominant.
9	42220 - Natural Jack Pine	Medium Density Log	9.8	72	51-80	This stand displays some age class diversity. The age given matches the nearby red pine stands.
13	6132 - Mixed Lowland Forest with Cedar	Medium Density Log	27.3	79	51-80	
14	6119 - Mixed Lowland Deciduous Forest	High Density Log	19.2	80	111-140	Age-class diversity is becoming evident, but the stand is still primarily single-storied. The age shown represents the rotation age commonly used for this timber type; there are examples present of most species that likely exceed this age.
15	6122 - Black Spruce	Medium Density Pole	20.0	83	81-110	Inoperable - too wet & soft to freeze down for harvest operations w/o major rutting etc.
18	42220 - Natural Jack Pine	Medium Density Pole	23.5	50	51-80	
19	6127 - Lowland Pine	High Density Log	7.0	110	111-140	Very large (18-24"+ DBH) white & red pine, along with pockets of mature spruce/fir. Retain for wildlife habitat etc. along the river bottom.
20	42210 - Natural Red Pine	High Density Log	8.2	50	81-110	
25	6130 - Fir, Aspen, Maple	High Density Log	19.0	Uneven Age	111-140	HCVA - Fox River



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	429 - Mixed Upland Conifers	Medium Density Log	58.7	Uneven Age	51-80	Variable crown closure. Age class diversity is developing as the semi-open areas in the stand are gradually filling in; there are trees present that are older than the age shown here.
27	42220 - Natural Jack Pine	Medium Density Pole	20.3	30	51-80	
29	6113 - Lowland Maple	Medium Density Pole	2.6	79	51-80	
30	4130 - Aspen	High Density Sapling	9.1	3	1-50	Fully stocked.
31	42290 - Natural Mixed Pine	Medium Density Pole	12.6	49	51-80	
32	6122 - Black Spruce	High Density Pole	6.9	80	141-170	
34	42290 - Natural Mixed Pine	Medium Density Log	27.8	Uneven Age	1-50	
35	6122 - Black Spruce	Low Density Pole	3.4	70	1-50	Semi-open in places and very wet; age variability is developing. Site indices are variable.
37	42290 - Natural Mixed Pine	High Density Log	29.5	120	111-140	Rolling terrain - pockets of both upland & lowland habitat.
39	6122 - Black Spruce	Medium Density Pole	3.1	80	81-110	
40	6120 - Lowland Cedar	High Density Pole	30.7	89	81-110	
41	6122 - Black Spruce	High Density Pole	10.6	75	81-110	Ready to cut.
42	42290 - Natural Mixed Pine	High Density Log	4.0	80	51-80	Narrow, sandy ridge with a road across it.
44	6122 - Black Spruce	High Density Pole	2.7	80	111-140	A few red maple and paper birch are also present.
45	6118 - Lowland Deciduous with Cedar	Low Density Pole	5.0	74	1-50	Slow-growing mix on wet ground.
48	6122 - Black Spruce	Low Density Pole	3.1	74	1-50	Slow-growing conifers on a very wet site.
49	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	16.7	Uneven Age	1-50	Very wet; heavy mortality has resulted in an unevenaged stand of relatively slow-growing lowland hardwoods w/scattered conifers.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	42110 - Planted Red Pine	Medium Density Pole	169.6	49	81-110	Semi-open red pine.
52	6122 - Black Spruce	Medium Density Pole	2.5	75		Island of black spruce out in the marsh - inaccessible.
54	42220 - Natural Jack Pine	Medium Density Log	22.6	70	51-80	Ready to cut.
56	6126 - Lowland Jack Pine	High Density Sapling	9.9	11		Salvage cut after the Hudson Creek Fire - now fully stocked w/healthy, dense jack pine regen.
57	42200 - Natural White Pine	Medium Density Log	24.2	118	81-110	Maintain for wildlife cover along the Fox River corridor.
58	4140 - Other Upland Deciduous	High Density Pole	3.2	67	51-80	Steep ridge featuring a stand of paper birch.
59	6122 - Black Spruce	High Density Pole	23.1	75	111-140	
60	42210 - Natural Red Pine	Medium Density Log	10.9	100	51-80	Semi-open mixed pine stand
61	42320 - Upland Spruce	Low Density Pole	4.8	Uneven Age	51-80	Semi-open ridge of upland timber; several age classes present as the open areas are gradually filling in.
62	6120 - Lowland Cedar	High Density Log	34.4	87	141-170	Mature cedar with a dense understory featuring lots of cedar regeneration as well as fir & red maple. Unevenaged characteristics are developing; the age shown here is from previous inventory.
63	6122 - Black Spruce	Medium Density	15.0	80	1-50	Inoperable - too wet & soft.
64	6122 - Black Spruce	Medium Density	7.1	27		Black spruce on wet, boggy ground - cut back in 1983.
66	6120 - Lowland Cedar	High Density Pole	11.1	89	111-140	
67	42220 - Natural Jack Pine	Medium Density Pole	7.5	67	1-50	Dry, semi-open ridge of overmature jack pine - ready to cut.
68	42220 - Natural Jack Pine	Medium Density Pole	22.7	71	51-80	Ready to cut. Reserve the red & white pine, paper birch, and the scattered cherry.
69	4319 - Mixed Upland Forest	Low Density Sapling	37.0	3	1-50	10-60 residual BA of red & white pine, oak and paper birch; stand is rapidly filling in with a mix of regeneration to include oak, red, white & jack pine seedlings + aspen & red maple sprouts. The amount of oak regeneration is especially noteworthy. The regen is also a mix of residual understory saplings and new seedlings.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	6122 - Black Spruce	High Density Pole	7.7	75	81-110	
72	6123 - Lowland Fir	High Density Sapling	2.9	10		Cut in 2000.
73	42290 - Natural Mixed Pine	High Density Log	9.3	Uneven Age	81-110	Rolling terrain featuring pine on the uplands and spruce in the lower areas. The pine appears to be somewhat older than than the spruce.
74	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	104.2	Uneven Age	81-110	Slightly rolling terrain. Several drainages run through the stand. Fairly dense understory.
75	6123 - Lowland Fir	Low Density Sapling	4.7	10	1-50	
77	6122 - Black Spruce	Medium Density Pole	10.1	75		Ready to cut.
78	6122 - Black Spruce	Medium Density Pole	2.6	75		Cut now along w/nearby spruce stands.
81	6122 - Black Spruce	Medium Density Pole	4.6	75	111-140	Cut now along with nearby spruce stands.
83	6127 - Lowland Pine	High Density Log	42.1	Uneven Age	111-140	Mixed stand along the Fox River - large white & red pine over lowland conifer/hardwood mix. The site features rolling terrain that drops all the way down into the river bottom.
84	6112 - Lowland Aspen	High Density Sapling	49.9	10	1-50	Cut in 2000; scattered residual conifers are present.
85	6122 - Black Spruce	Medium Density Pole	5.6	75	111-140	
86	6122 - Black Spruce	Medium Density Pole	2.8	75	1-50	
87	6122 - Black Spruce	Medium Density Pole	2.4	Uneven Age	51-80	The jack pine has fallen out of this stand, leaving patches where the understory (mixed lowland spp.) is now dominant.
88	6122 - Black Spruce	Medium Density Pole	1.9	71	51-80	Understory is a dense, fully-stocked mix of spruce/fir/redmaple and white pine.



Stand	Cover Type	Acres	Gen Cmts:
7	629 - Mixed non-forested wetland	22.6	Residual red & white pine, and a few cedar.
10	6220 - Alder/willow	11.4	
11	6239 - Mixed Emergent Wetland	14.3	Seasonally flooded.
12	3303 - Mixed Low Density Trees	15.8	Some mature jack pine present, and the area appears to be slowly filling in with a mix of regen - primarily aspen, pine & spruce.
16	6229 - Mixed lowland shrub	12.7	
17	6233 - Wet Meadow	19.6	This stand is a mix of seasonally flooded marsh and pockets of various lowland shrubs.
21	6232 - Wet Prairie	23.9	
22	6233 - Wet Meadow	32.6	
23	3302 - Low Density Conifer Trees	6.2	
24	3302 - Low Density Conifer Trees	52.6	Just cut - heavy slash on the ground ,and scattered large red & white pine residuals are present. See FTP C41-1090 - cult work prescribed to regenerate jack pine. FTP W41-1089 was also submitted for aspen TSI in the areas that were previously classified as aspen stands; these areas appear to regenerating sufficiently w/o the need for TSI.
28	6220 - Alder/willow	5.0	A few scattered trees are also present.
33	6220 - Alder/willow	1.7	
36	3303 - Mixed Low Density Trees	27.7	Some mature jack pine present, and the area appears to be slowly filling in with a mix of regen - primarily aspen, pine & spruce.
38	6225 - Bog	2.9	Scattered submerchantable conifers are somewhat larger along the perimeter ( a few pole-sized) and more prevalent in the north half of the stand.
43	3302 - Low Density Conifer Trees	11.3	
46	6220 - Alder/willow	21.8	



Stand	Cover Type	Acres	Gen Cmts:
47	6224 - Treed Bog	11.3	Scattered submerchantable conifers are somewhat larger ( a few pole-sized) along the perimeter and more prevalent in the west half of the stand.
51	3302 - Low Density Conifer Trees	36.5	
53	6220 - Alder/willow	23.9	
55	6233 - Wet Meadow	53.8	Some areas have a few trees and patches of tag alder/willow.
65	6225 - Bog	1.7	Wet, open bog.
71	6225 - Bog	1.2	Wet bog with a few scattered submerchantable conifers.
76	3101 - Poverty Grass, Cladonia	3.5	
79	6220 - Alder/willow	20.4	
80	6233 - Wet Meadow	6.8	
82	6220 - Alder/willow	72.1	



### 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 2:00 PM*

Stand	SCA Type	SCA Name	Acres	Comments
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## 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 2:00 PM*

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.