



Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #120 Entry Year: 2013
Compartment Acreage: 913 County: Schoolcraft

Revision Date: August 16, 2011

Stand Examiner: Sheila Clark

Legal Description: T45N R14W Section 6 and T46N R14W Section 31

RMU (if applicable):

Management Goals: To provide multiple use benefits for the citizens of Michigan.

Soil and Topography: The terrain is flat to gently rolling, with slightly elevated sandy ridges.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is completely state-owned. It is bounded by The Seney National Wildlife Refuge to the west and south, and more state lands to the east and the north across Highway M-28.

Unique, Natural Features: To the west of the compartment *Juncus vaseyi* (vasey's rush) has been identified. Its habitat is the marshy areas which are kept open by seasonal flooding.

Archeological, Historical, and Cultural Features: None known at this time.

Special Management Designations or Considerations: Visual quality along the M-28 corridor, which forms the north boundary of the compartment.

Watershed and Fisheries Considerations: Fisheries Values Poor-to-None. No treatments are prescribed near water, so Fisheries Division has no comments at this time.

Wildlife Habitat Considerations: This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46 F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes indicate that the lowlands in this compartment were historically dominated by spruce and tamarack with white pine mixed in. Uplands held a mix of hemlock, yellow birch, white pine, and red maple. Wildfire and windthrow likely were the major forms of natural disturbance. The current forest cover has shifted heavily toward early successional pine (red and jack pine). Section 6 also contains a fairly sizable aspen stand. However, there are some lowland stands that still contain a mixture of species similar to those recorded in the GLO notes. Wildlife habitat objectives include maintaining age and structural diversity within and between upland conifer stands, reestablishing forest cover in skid roads, providing a hard mast component in the form of red oak, and promoting retention of soft mast and eventual snag formation by selecting birch leaf trees. Gray wolves (Federal and Michigan endangered), moose (Michigan special concern) and sharp-tailed grouse (Michigan special concern) have all been recorded in this compartment. Other species of interest include saw-whet owl, red-breasted nuthatch, bobcat, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is minimal local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Group subcrops below the glacial drift. The Trenton is used for dolomite/stone elsewhere in the UP. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access: An excellent gravel road forms the western compartment boundary, with several low-quality two-track roads running into the state land from it. Wet terrain throughout the area makes road construction and maintenance difficult, particularly in the southern part of the compartment.

Survey Needs: None

Recreational Facilities and Opportunities: Hunting opportunities, especially during deer season.

Fire Protection: See comments under Vehicle Access.

Additional Compartment Information: Text

- **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**

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Table 1 – Total Acres by Cover Type and Age Class



	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
Jack Pine	0	0	211	28	0	0	0	0	0	0	0	0	0	0	0	238
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	52	0	0	0	0	0	30	0	0	0	0	0	0	82
Lowland Mixed Forest	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Natural Mixed Pines	0	0	0	81	0	10	0	0	65	0	0	0	0	0	0	157
Planted Mixed Pines	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	9	88	0	0	31	0	0	0	127
Upland Conifers	0	37	0	0	0	51	0	0	49	0	0	0	0	0	0	137
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	149	37	284	109	0	61	0	9	232	0	0	31	0	0	0	913



Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2013

Compartment 120
Total Compartment Acres: 912.6

Acres by Treatment Type

Commercial Harvest - 188	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
Lowland Conifers	22	0	0	0	0	0	0	22
Natural Mixed Pines	64	0	0	0	0	0	0	64
Red Pine	71	0	0	0	31	0	0	101
Total	157	0	0	0	31	0	0	188



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	41120003-Cut	19.3	42290 - Natural Mixed Pine	Medium Density Pole	71	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Have to be harvested in the winter due to surrounding lower ground. Mark red and white pine, leave white birch. Harvest all remaining trees <u>Specs:</u> down to 2 inches</p> <p><u>Other</u> This is a mixed stand of softwood and hardwood. There are several swayles within the stand. <u>Comments:</u></p> <p><u>Next</u> After harvest may need to scarify to expose mineral soil. <u>Steps:</u></p>									
9	41120009-Cut	35.2	42290 - Natural Mixed Pine	High Density Sapling	72	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Treatment = On higher ground remove all merchantable trees, which will be marked. On low ground leave red and white pine. <u>Specs:</u></p> <p><u>Other</u> This stand was harvested in 1999. At the time it was a red and white pine stand. Since harvest the stand is being taken over by jack pine, aspen <u>Comments:</u> and black spruce. Would like to maintain a red pine covertype.</p> <p><u>Next</u> After harvest the high ground will be trenched and planted to red pine. <u>Steps:</u></p>									
10	41120010-Cut	30.6	42210 - Natural Red Pine	High Density Log	104	Harvest	Low Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Thin red and white pine. Mark trees that are suppressed or poor quality. Harvest all jack pine over 2 inches. Maintain a basal area between 80 - <u>Specs:</u> 100 sq feet, to ensure red pine covertype.</p> <p><u>Other</u> Parts of stand were thinned in 1985. <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
11	41120011-Cut	9.9	42290 - Natural Mixed Pine	Medium Density Log	48	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest all jack pine and black spruce over 2 inches and mark red and white pine for harvest. Stand is lower ground and may need to be <u>Specs:</u> harvested in the winter or dry summer.</p> <p><u>Other</u> There is a lot of advanced regeneration present in the stand, so caution should be used to minimize damage to it. <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
18	41120018-Cut	7.6	6125 - Lowland Black Spruce, Jack Pine	Medium Density Log	71	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription</u> Within Payment Unit(s) 1-5, red pine and white pine are designated for cutting when marked with orange paint above <u>Specs:</u> and below stump height, regardless of merchantability. In addition, cut all other species except OAK and HEMLOCK which meet minimum piece specification in 2.2 Utilization.</p> <p><u>Other</u> This stand is under contract 41-27-08-01 - Brown Hand Sale. <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20 41120020-Cut	63.6	42210 - Natural Red Pine	Low Density Log	70	Harvest	Clearcut with Reserves	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription On high ground mark all read and white pine for harvest. Leave pine in the lower swaysles. Minimize damage to aspen regeneration.

Specs:

Other Comments: This stand was cut in 1999. there is good regeneration of jack pine, black spruce, and aspen. However, ground was not disturbed enough to encourage red pine regeneration.

Next Steps: After harvest trench high ground and plant to red pine.

21 41120021-Cut	14.3	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	71	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Treatment = Mark red and white pine. Harvest all merchantable trees.

Specs:

Other Comments: This stand should be harvested with adjacent stands in Compartment 119. Brown Hand Sale 41-27-08-01. There is not enough volume to justify an independent sale, and would require too much road work to attach to another timber sale in the area.

Next Steps:

33 41120033-Cut	2.5	42210 - Natural Red Pine	High Density Log	70	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Within Payment Unit(s) 1-5, red pine and white pine are designated for cutting when marked with orange paint above

Specs: and below stump height, regardless of merchantability. In addition, cut all other species except OAK and HEMLOCK which meet minimum piece specification in 2.2 Utilization.

Other Comments: This stand is under contract. Brown Hand Sale. 41-27-08-01.

Next Steps:

34 41120034-Cut	4.6	42210 - Natural Red Pine	High Density Pole	70	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Within Payment Unit(s) 1-5, red pine and white pine are designated for cutting when marked with orange paint above

Specs: and below stump height, regardless of merchantability. In addition, cut all other species except OAK and HEMLOCK which meet minimum piece specification in 2.2 Utilization.

Other Comments: This stand is under contract. Brown Hand Sale 41-27-08-01.

Next Steps:

**Total Treatment
Acreage Proposed: 187.7**

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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

Total Treatment
Acreage Proposed: 0

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41022_OutOfY OE-Cut	35.6				Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> 3rd row thinning. Cut all trees in designated rows. Rows can be spaced wider apart in areas with lower basal area. Do not cut hemlock and oak.								
<u>Specs:</u>								
<u>Other Comments:</u> Do not cut any trees within 50 feet of the West Branch Manistique River.								
<u>Next Steps:</u> Thin next year of entry.								
41049_OutOfY OE_1-Cut	4.7				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription:</u> Mark red pine and white pine to 30 sq. ft. Create gaps in canopy for regeneration where pine exists. Areas that have thicker young poles can be								
<u>Specs:</u> marked to 80. Cut all other species except hemlock and oak if present.								
<u>Other Comments:</u> Access to stand is too difficult for continuous thinning.								
<u>Next Steps:</u> Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.								
41053_OutOfY OE-Cut	10.2				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<u>Prescription:</u> Mark red pine and white pine to 30 sq. ft. Create gaps in canopy for regeneration where pine exists. Areas that have thicker young poles can be								
<u>Specs:</u> marked to 80. Cut all other species except hemlock and oak if present.								
<u>Other Comments:</u> Access to stand is too difficult for continuous thinning.								
<u>Next Steps:</u> Regen walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.								
Total Treatment Acreage Proposed:		50.5						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	High Density Pole	11.7	27		
2	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	15.1	13		Stand was harvested in 1998. It is a mixture of upland and lowland, with jack pine and aspen on the upland and tag alder in the lowland.
3	42290 - Natural Mixed Pine	Medium Density Pole	19.3	71	81-110	Conifer on higher ground - tag alder and aspen in swayles.
4	42220 - Natural Jack Pine	Medium Density Pole	15.8	24	81-110	Similar to stand 2 - a little more open. A few knobs with larger diameter red pine, aspen & white pine 8-14 inches in diameter.
6	42140 - Planted Mixed Pine	Medium Density	12.4	13		Good regeneration on higher ground.
7	42220 - Natural Jack Pine	High Density Sapling	10.2	12	51-80	Stand was harvested in 1999.
9	42290 - Natural Mixed Pine	High Density Sapling	35.2	72	1-50	Pine Islands surrounded by lower ground. Some low ground has trees - others have tag alder. Good jack pine regen.
10	42210 - Natural Red Pine	High Density Log	30.6	104	111-140	Parts of stand were thinned in 1985.
11	42290 - Natural Mixed Pine	Medium Density Log	9.9	48	81-110	There is a lot of advanced regeneration.
12	6139 - Mixed Lowland Forest	Medium Density	9.3	12		Red and white pine overstory is very scattered. Stand was harvested in 1999.
13	42220 - Natural Jack Pine	Medium Density	152.7	13		Good regeneration. tag alder in lower swayles. Higher ground is 75 to 80% forested with regeneration 5-15 feet.
15	6126 - Lowland Jack Pine	Medium Density	15.8	12		Thick jack pine regeneration.
16	429 - Mixed Upland Conifers	High Density Log	51.2	47	81-110	Mixed pine.
17	42220 - Natural Jack Pine	Medium Density	16.9	13		
18	6125 - Lowland Black Spruce, Jack Pine	Medium Density Log	7.6	71		Stand has been included in a timber sale with a stand in adjacent compartment (119). red line around stand. The sale is Brown Hand - 41-27-08-01.
20	42210 - Natural Red Pine	Low Density Log	63.6	70	51-80	Was recently cut in 1999. Good regeneration, though too much was left in overstory. Overstory is red and white pine. Understory is jack pine, aspen, red pine, white pine, and black spruce.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	14.3	71		Tamarack is dieing on the edges.
22	42290 - Natural Mixed Pine	High Density Sapling	81.4	25		
23	6125 - Lowland Black Spruce, Jack Pine	Medium Density	34.7	13		Was harvested in 1998. Regeneration looks good.
24	429 - Mixed Upland Conifers	Medium Density	37.3	7		Regeneration is still small. Jack pine is just starting to get above the snow.
25	6127 - Lowland Pine	Low Density Log	8.3	70		Stand is made up of scattered pockets of trees intermixed with tag alder.
26	6125 - Lowland Black Spruce, Jack Pine	Medium Density	16.9	12		This stand is lower ground with jack pine and black spruce being on the higher areas.
28	429 - Mixed Upland Conifers	Medium Density Pole	48.6	71	51-80	This is a hodgpodge kind of stand. The Northwest quareter has a high percentage of red pine on ridges surrounded by lowland - mixed tamarack, paper birch, and tag alder. On ridges it is relatively open with some hardwood regeneration. Was harvested about 10 years ago.
29	42290 - Natural Mixed Pine	Medium Density Log	11.0	70	51-80	Was thinned in 1999. voerstory red and white pine. Understory of jack pine, black spruce, and aspen.
31	42210 - Natural Red Pine	Medium Density Pole	16.9	71	51-80	This stand was recently harvested.
32	42210 - Natural Red Pine	Low Density Log	9.1	69	1-50	This is stand is a combination of upland and lowland. It was harvested in 2006.
33	42210 - Natural Red Pine	High Density Log	2.5	70		This stand has been marked for harvesting. Assuming it is part of Brown Hand Sale 41-27-08. There is a ditch on the west side of the stand.
34	42210 - Natural Red Pine	High Density Pole	4.6	70		This stand is marked for harvest. Assume it is part of Brown Hand Sale 41-27-08. Ditch on west side of stand.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	3302 - Low Density Conifer Trees	5.0	No	Unspecified	
8	11 - Low Intensity Urban	11.8	No	Unspecified	Right-of-way between highway and train tracks.
14	629 - Mixed non-forested wetland	7.6	No	Unspecified	
19	6229 - Mixed lowland shrub	119.8	No	Unspecified	
27	3302 - Low Density Conifer Trees	3.6	No	Unspecified	
30	3302 - Low Density Conifer Trees	1.7	No	Unspecified	



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.

Stand	SCA Type	SCA Name	Acres	Comments



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.

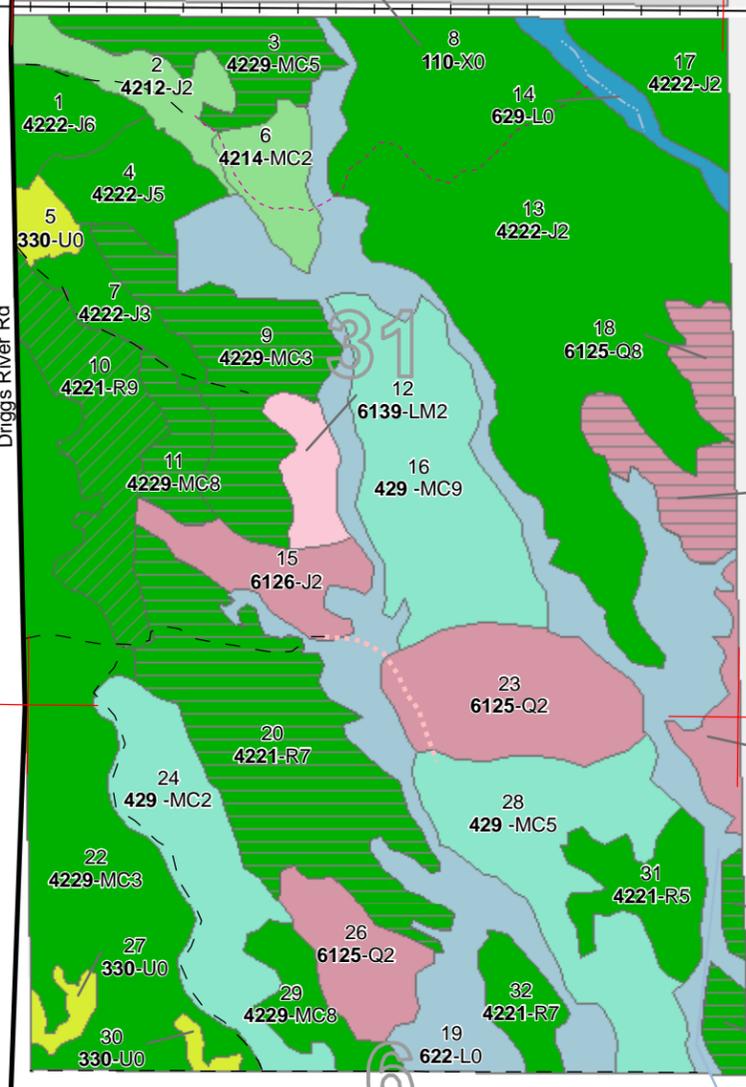
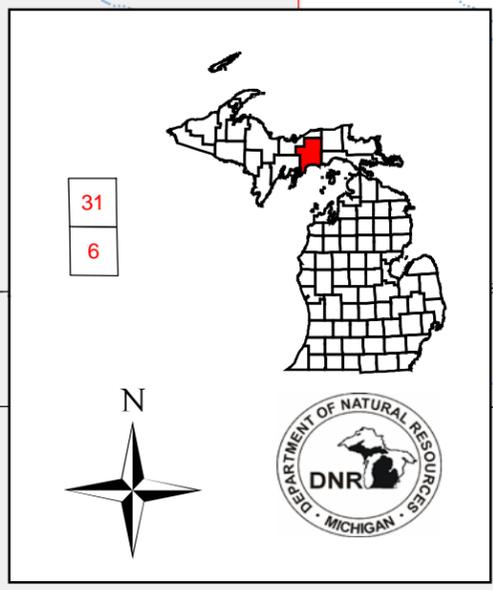
ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

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	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.

Cover Type & Treatment Map

Compartment 120
 T46N, R14W, Sec. 31
 T45N14W, Sec. 6
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2013
 Acres: 913 GIS Calculated
 Stand Examiner: Shiela Clark
 Map Revised: 9/15/2011
 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
- State Highway
- Highway
- Paved Roads
- - - Poor Dirt Roads
- · - · - Trail (Non-Recreation)
- · · · · Closed Roads
- ⊕ Power
- · - · - Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- State Forest Land

Treatments

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

Forest Stands

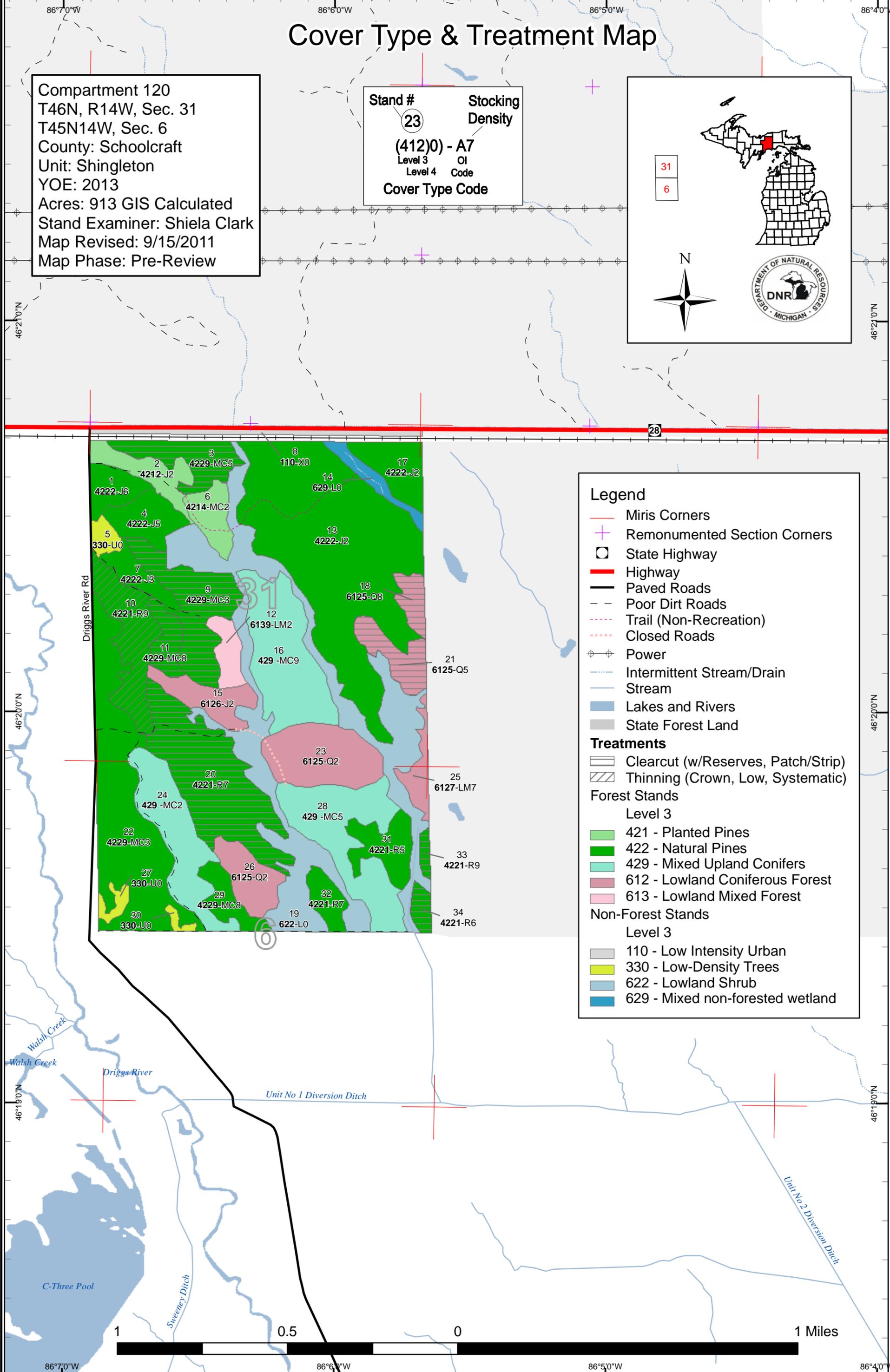
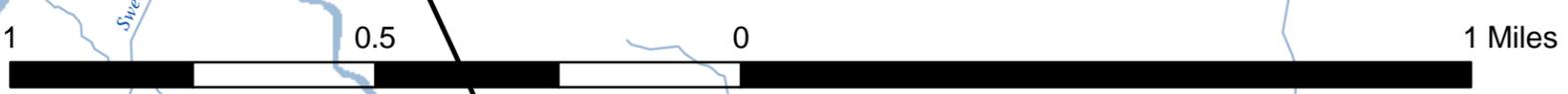
Level 3

- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

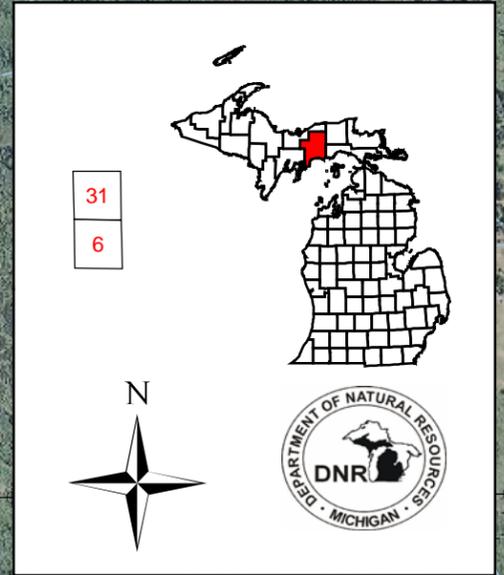
- 110 - Low Intensity Urban
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland



Compartment 120
 T46N, R14W, Sec. 31
 T45N14W, Sec. 6
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Stand Boundary Map

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



Legend

- Miris Corners
- + Remonumented Section Corners
- Highway
- Paved Roads
- - Poor Dirt Roads
- - - Trail (Non-Recreation)
- · · · Closed Roads
- ⊕ Power
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

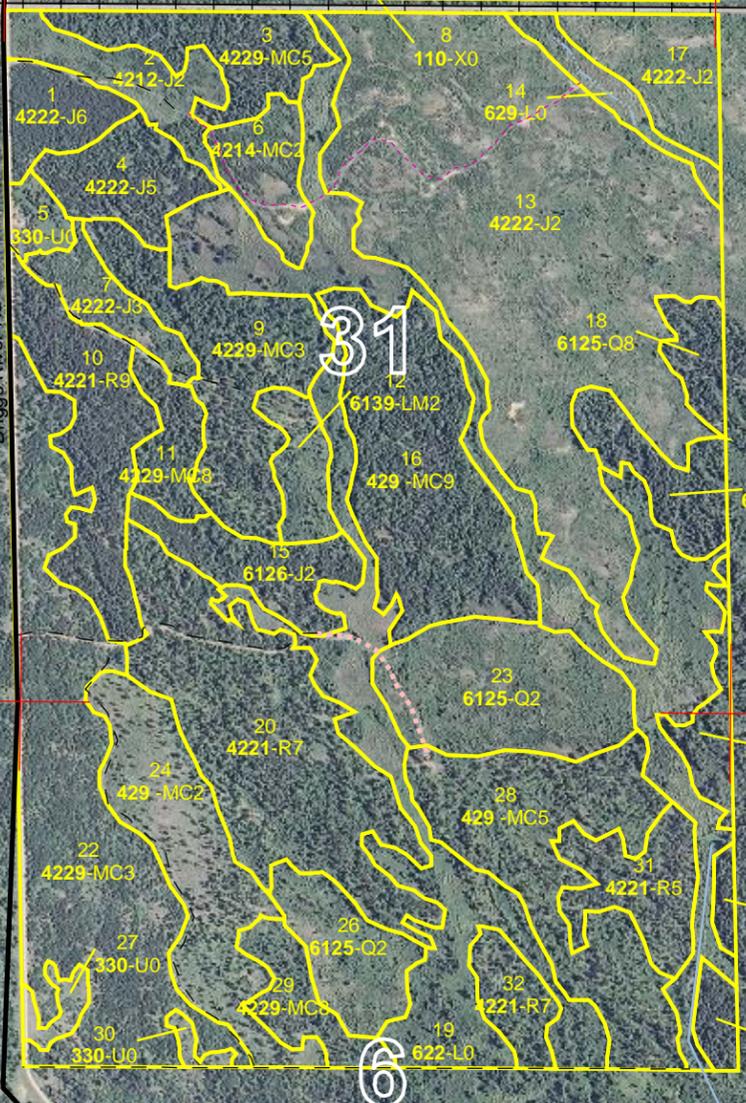
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Non-Forest Stands

Level 3

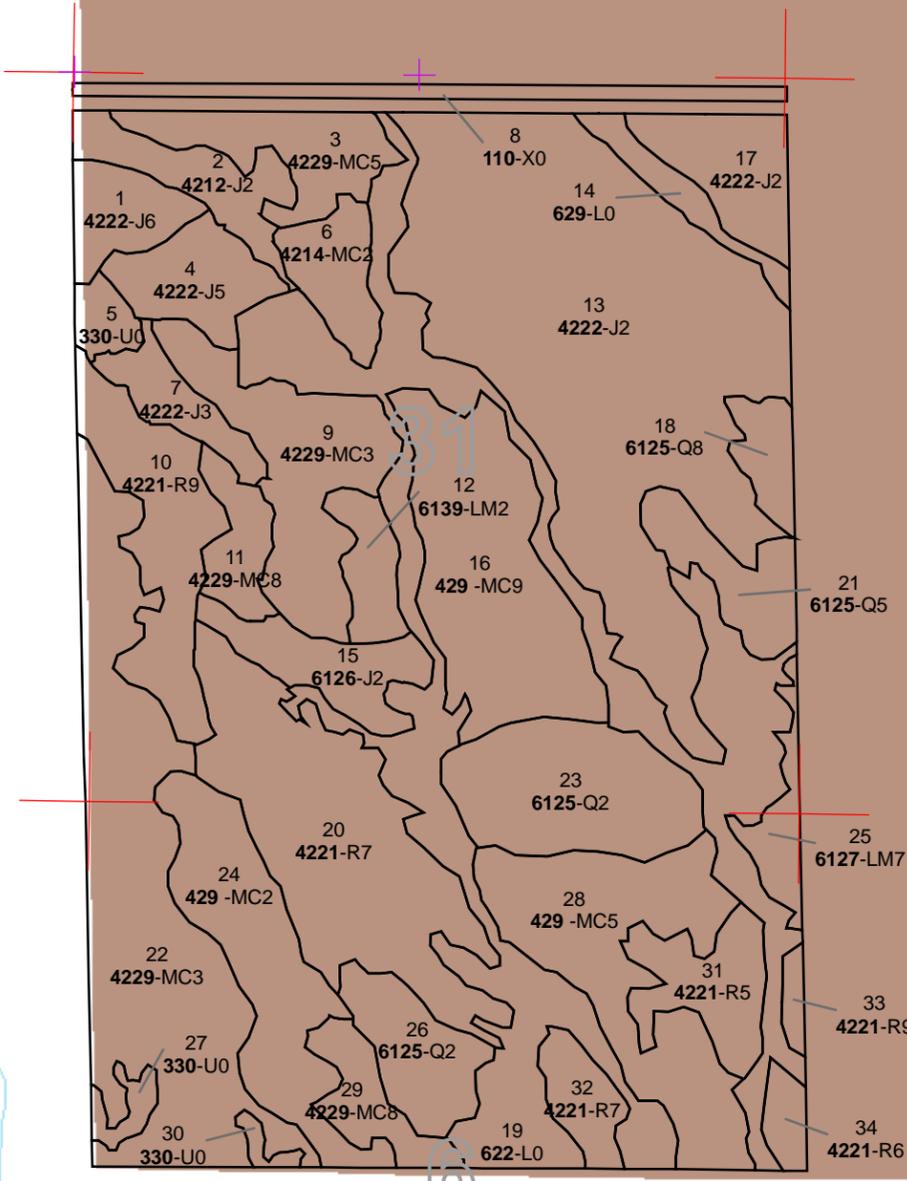
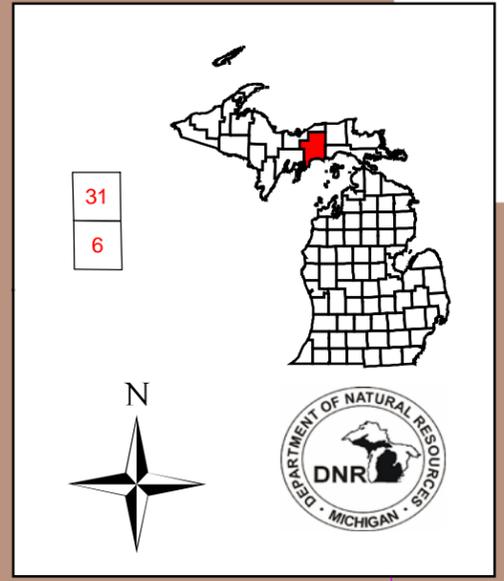
- 110 - Low Intensity Urban
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- 629 - Mixed non-forested wetland



Dedicated & Proposed Special Conservation Area Map

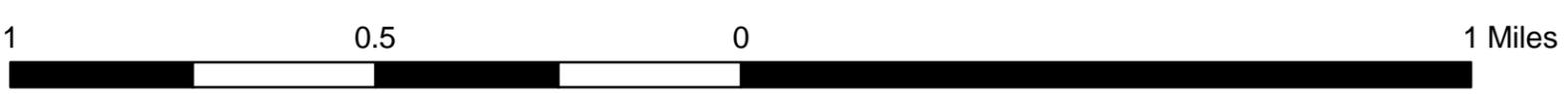
Compartment 120
 T46N, R14W, Sec. 31
 T45N14W, Sec. 6
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 Map Phase: Pre-Review

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



Legend

- Miris Corners
- ⊕ Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Wildlife Management Areas
- Forest Stands
 - Level 3
 - 421 - Planted Pines
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 - Non-Forest Stands
 - Level 3
 - 110 - Low Intensity Urban
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland



86°7'0"W 86°6'0"W 86°5'0"W

46°22'0"N
46°21'0"N
46°20'0"N
46°19'0"N

86°7'0"W 86°6'0"W 86°5'0"W