Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #50 Entry Year: 2013
Compartment Acreage: 2,671 County: Schoolcraft

Revision Date: 8/10/2011

Stand Examiner: Adam Petrelius

Legal Description: T43N R15W, Sections 1, 2, 3, 10, 11

RMU (if applicable): Compartment 50 lies within the Seney Manistique Swamp Management Area.

Management Goals: The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and Topography: The topography within the compartment is mostly flat. Elevation values range between 702-715 feet. The eastern half of the compartment is mostly forested, while the western portion is mostly non-forest wetland. Forested land is a pretty even mixture between lowland hardwoods; poor quality northern hardwood, aspen, red pine, and lowland conifer cover types. The two most abundant soils are Markey Mucky Peat and Rousseau-Nocknish-Deford Complex.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land within this compartment was acquired between 1929 and 1960. The compartment boundary borders private and state land. The western boundary borders a mix of private parcels, many containing camps. The compartment receives very minimal use and is mostly inaccessible. Some of the pine islands closer to roads have signs of hunters.

Watershed and Fisheries Considerations: Fisheries Values: Poor. The West Branch Manistique River, Duck and Little Duck Creeks are all classified as Second Quality Warm Water (SQWW) through this area. Protecting these waters from encroachment by beaver isn't a high priority, but protection from increased sand bedload is a high priority.

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 -46^0 F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes show marsh and low pine ridges to be the dominant landforms. The ridges held primarily red pine and white pine with some aspen and white birch mixed in. Forested lowlands contained spruce, tamarack, and white birch. The open marshlands contained cranberry, and various grasses and sedges. Wildfire and windthrow appeared to be the primary types of natural disturbance within the compartment. Although jack pine is dominant along the Highwater Truck Trail, the remainder of the compartment appears to be quite similar to presettlement vegetation. Most of the ridges contain red and/or white pine with aspen and white birch mixed in. Inaccessibility is the primary reason for these stands remaining in tact. Wildlife habitat objectives include protecting the integrity of the marsh/ridge ecosystem, and increasing the availability of hard mast. Gray wolves (Federal and Michigan endangered) have been known to pass through this compartment. There may also be some potential for moose (Michigan special concern), sharp-tailed grouse (Michigan special concern), and yellow rail (Michigan threatened) to utilize this compartment. However, none of these three species have been documented within the compartment. Other wildlife species of interest include sand-hill crane, raven, meadow vole, and coyote.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Big Hill Dolomite subcrop below the glacial drift. These rocks could be used for stone. The nearest gravel pit is 4 miles to the southwest and potential appears to be limited. There is a clay pit 4 miles to the west. There is no commercial oil and gas production in the UP.

Vehicle Access: Vehicle access is very limited. Private land on the western edge of the compartment prevents access. The interior portions are road less. The eastern edge of the compartment borders the Highwater Truck Trail.

Survey Needs: Some treatments border private land and survey work may be needed.

Recreational Facilities and Opportunities: The Highwater Truck Trail is a snowmobile trail and travels through the northeastern portion of the compartment.

Fire Protection: Fire response time will be slow from any office. Much of the compartment is roadless access is difficult. Fuels within the compartment create potential for a large fire during periods of drought. Water sources are abundant.

- **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

Shingleton Mgt. Unit **Compartment 050 Year of Entry 2013**

Adam Petrelius : Examiner

Age Class

	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	Total
Jack Pine	0	0	100	48	0	0	1	0	14	0	0	0	0	0	0	**164**
Lowland Conifers	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	**13**
Lowland Shrub	1773	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1773**
Lowland Spruce/Fir	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	**14**
Mixed Upland Deciduous	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	**10**
Natural Mixed Pines	0	0	0	0	0	0	31	4	132	99	0	0	0	0	0	**266**
Red Pine	0	0	0	0	0	3	309	30	15	19	0	0	0	0	0	**376**
Upland Conifers	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	**13**
Upland Mixed Forest	0	0	0	0	0	0	0	6	0	0	11	0	0	0	0	**17**
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
White Pine	0	0	0	0	0	0	2	0	13	0	0	0	0	0	0	**16**
Total	**1782**	**0**	**100**	**74**	**14**	**3**	**343**	**50**	**175**	**118**	**11**	**0**	**0**	**0**	**0**	**2671**

Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2013

Compartment 050
Total Compartment Acres: 2671

Acres by Treatment Type

Commercial Harvest - 205	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
Jack Pine	4	0	0	0	0	0	**4**
Natural Mixed Pines	91	26	55	0	0	0	**173**
Red Pine	0	19	0	0	0	0	**19**
Upland Mixed Forest	0	0	6	0	0	0	**6**
White Pine	0	0	4	0	0	0	**4**
Total	**95**	**45**	**65**	**0**	**0**	**0**	**205**

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	41050006-Cut	55.1	42290 - Natural Mixed Pine	Medium Density Log	85	Harvest	Seed Tree with Reserves	42200 - Natural White Pine	Cmpt. Review Proposal

Prescription Specs: Remove red pine/white pine from overstory to release regeneration. Leave a few supercanopy red pine/white pine trees. If areas of younger poles are found these can be thinned to allow for operability. Cut all other species. Reserve trees are hemlock and oak.

Other Comments: Advanced regeneration present from harvest in 1988. Protect regeneration with timbersale spec. Retention: Areas lacking red pine/white pine in overstory were removed with creation of treatment boundary. Portions of these areas will serve as retention.

Next Steps: Regeneration walkthrough during next inventory cycle. Acceptable regen is any mixture currently found onsite.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	41050007-Cut	3.6	42200 - Natural White Pine	High Density Pole	72	Harvest	Seed Tree with Reserves	42200 - Natural White Pine	Cmpt. Review Proposal

Prescription Specs:

Other Comments: Stand is already on contract with timbersale in adjacent compartment.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	41050012-Cut	5.9	4319 - Mixed Upland Forest	High Density Pole	60	Harvest	Seed Tree with Reserves	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Mark red pine and white pine to 30 sq. ft. Leave some larger supercanopy seed trees for retention. Cut all other species except hemlock and oak.

Other Comments: May need survey work, however adjacent property was recently harvested. Protect regeneration with timbersale spec.

Next Steps: Regeneration walkthrough next inventory cycle. Acceptable regeneration is any mixture of species currently found onsite.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	41050014-Cut	4.4	42290 - Natural Mixed Pine	High Density Pole	60	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Mark red pine/white pine to 80 sq. ft. where thicker poles exist. Cut all other species except hemlock and oak. Save some larger supercanopy pine for retention.

Other Comments:

Next Steps: Regeneration walkthrough during next inventory cycle. Acceptable regeneration is any species mixture currently found onsite.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	41050028-Cut	18.8	42210 - Natural Red Pine	High Density Log	85	Harvest	Single Tree Selection	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Remove most of large red pine/white pine logs and poles from overstory. Cut all other species except hemlock and oak if present. Leave a few large supercanopy red pine and white pine along with most of the smaller poles.

Other Comments: Protect red pine regeneration with timbersale spec. Survey work may be needed. 50 foot no cut buffer along river and slough. Cutting can occur 50 to 100 feet away from river/slough, but basal area should be left slightly higher. These river/slough buffers will serve as retention areas.

Next Steps: Plant red pine in holes that develop from harvest. Acceptable regeneration is any mixture of red pine, white pine, and jack pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
62	41050062_small-Cut	18.8	42290 - Natural Mixed Pine	High Density Pole	74	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: 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 marked to 80. Cut all other species except hemlock and oak if present.

Other Comments: Access to stand is too dificult for continuous thinning every 10 years.

Next Steps: Check regeneration during next inventory cycle. Acceptable regeneration is any species mixture currently found onsite.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
62	41050062-Cut	85.8	42290 - Natural Mixed Pine	High Density Pole	74	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees except hemlock and oak if any are present. Leave some good red pine seed trees.

Other Comments: Make sure red pine is marked low enough to allow for scarification following harvest. Retention: Save 3% of stand for retention. These areas could be left along the edge of stand since it is surrounded by marsh.

Next Steps: Jack pine regeneration. Stand should be scarified or trenched and planted. Acceptable regeneration includes jack pine, red pine, black spruce, white pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	41050066-Cut	3.6	6126 - Lowland Jack Pine	High Density Pole	74	Harvest	Clearcut with Reserves	6126 - Lowland Jack Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees except hemlock and oak if any are present.

Other Comments: Small stand, dying/water stressed trees. Retention will be snags and submerchantable trees remaining from harvest.

Next Steps: Lowland stand, scarification not possible. Regeneration walkthrough during following inventory cycle. Accpetable regen includes any species mixture currently found onsite.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
72	41050072_small-Cut	3.0	42290 - Natural Mixed Pine	High Density Pole	74	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: 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 marked to 80. Cut all other species except hemlock and oak if present.

Other Comments: Access to stand is difficult so continuous thinning every 10 years is not possible.

Next Steps: Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
72	41050072-Cut	5.5	42290 - Natural Mixed Pine	High Density Pole	74	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees except hemlock and oak if present.

Other Comments: Trees are dying and water stressed in this low portion of the stand.

Next Steps: Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture found onsite.

Total Treatment Acreage Proposed: 204.6

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#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_OutOfYOE-Cut	35.6				Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: 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.

Other Comments: Do not cut any trees within 50 feet of the West Branch Manistique River.

Next Steps: Thin next year of entry.

41049_OutOfYOE_1-Cut	4.7				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: 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 marked to 80. Cut all other species except hemlock and oak if present.

Other Comments: Access to stand is too difficult for continuous thinning.

Next Steps: Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.

41053_OutOfYOE-Cut	10.2				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: 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 marked to 80. Cut all other species except hemlock and oak if present.

Other Comments: Access to stand is too difficult for continuous thinning.

Next Steps: 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:
3	42290 - Natural Mixed Pine	High Density Pole	16.4	72	51-80	select cut in 1988
6	42290 - Natural Mixed Pine	Medium Density Log	87.3	85	51-80	Majority of stand was thinned in 1988.
7	42200 - Natural White Pine	High Density Pole	3.6	72	51-80	
8	42290 - Natural Mixed Pine	High Density Pole	2.3	72	81-110	select cut in 1988
10	42200 - Natural White Pine	High Density Pole	9.9	71	1-50	select cut in 1988
11	42210 - Natural Red Pine	High Density Pole	9.4	72	51-80	select cut in 1988
12	4319 - Mixed Upland Forest	High Density Pole	5.9	60	51-80	New stand added.
14	42290 - Natural Mixed Pine	High Density Pole	4.4	60	81-110	
16	42210 - Natural Red Pine	High Density Pole	36.5	51	81-110	
17	42290 - Natural Mixed Pine	High Density Pole	20.5	55	81-110	
18	42210 - Natural Red Pine	High Density Pole	4.2	53	51-80	
19	42210 - Natural Red Pine	High Density Pole	33.2	53	81-110	
20	42210 - Natural Red Pine	High Density Pole	13.3	55	111-140	
21	42210 - Natural Red Pine	High Density Pole	2.3	53	81-110	
22	42220 - Natural Jack Pine	High Density Pole	1.3	53		
23	42210 - Natural Red Pine	High Density Pole	1.6	53	51-80	
24	42210 - Natural Red Pine	High Density Pole	1.5	53	51-80	
25	42210 - Natural Red Pine	High Density Pole	1.6	53	51-80	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.1	60		
28	42210 - Natural Red Pine	High Density Log	18.8	85	51-80	
29	42210 - Natural Red Pine	High Density Pole	6.1	70	51-80	Thinned in 1990
30	42210 - Natural Red Pine	High Density Pole	9.1	58	81-110	
31	42210 - Natural Red Pine	High Density Pole	6.2	53	81-110	
32	6122 - Black Spruce	High Density Pole	14.5	38		
33	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	6.7	23		clearcut in1988
34	429 - Mixed Upland Conifers	Medium Density	13.0	25		New stand added. beaver activity in past. open pockets
38	42210 - Natural Red Pine	High Density Pole	28.2	53	81-110	
39	42200 - Natural White Pine	Medium Density Log	2.1	59		
40	42210 - Natural Red Pine	High Density Log	3.1	58	81-110	
41	42290 - Natural Mixed Pine	High Density Pole	11.7	81		
42	42220 - Natural Jack Pine	High Density Pole	8.6	25		
43	42110 - Planted Red Pine	High Density Pole	2.9	47	81-110	Thinned with compartment 51 in fall 2005
45	42210 - Natural Red Pine	High Density Pole	4.6	58	81-110	
46	4319 - Mixed Upland Forest	High Density Pole	11.1	98		
47	42210 - Natural Red Pine	High Density Pole	112.0	59	51-80	thinned in 1990. Some areas of the stand were missed during previous thinning.
49	42210 - Natural Red Pine	High Density Pole	4.4	58	81-110	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	42220 - Natural Jack Pine	High Density Pole	24.0	23		clearcvt in1988
51	42210 - Natural Red Pine	High Density Pole	8.2	58	81-110	
52	42210 - Natural Red Pine	High Density Pole	1.9	56	51-80	
53	42210 - Natural Red Pine	High Density Pole	4.0	56	111-140	
54	42210 - Natural Red Pine	High Density Pole	3.5	66	81-110	
55	42210 - Natural Red Pine	High Density Pole	17.4	55		
57	42290 - Natural Mixed Pine	High Density Pole	2.6	56	81-110	
58	6127 - Lowland Pine	Medium Density Pole	5.9	20		dead overstory of pine due to water levels.
59	42290 - Natural Mixed Pine	High Density Pole	8.0	58	81-110	
61	42210 - Natural Red Pine	Medium Density Pole	15.6	56	1-50	cvt winter 2010 frozen paint sale
62	42290 - Natural Mixed Pine	High Density Pole	104.6	74		
64	42210 - Natural Red Pine	High Density Pole	26.3	67	81-110	
66	6126 - Lowland Jack Pine	High Density Pole	3.6	74		
69	42220 - Natural Jack Pine	High Density Sapling	51.6	12		
71	42220 - Natural Jack Pine	High Density Sapling	48.7	12		
72	42290 - Natural Mixed Pine	High Density Pole	8.5	74	81-110	
73	42220 - Natural Jack Pine	High Density Pole	10.6	76		possibly add stand to east side duck sale. look at when doing inventory in compartment 49
74	42220 - Natural Jack Pine	High Density Sapling	15.6	25		

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	622 - Lowland Shrub	17.6	N\A	Unspecified	
2	622 - Lowland Shrub	3.8	N\A	Unspecified	
4	622 - Lowland Shrub	4.5	N\A	Unspecified	
5	622 - Lowland Shrub	2.3	N\A	Unspecified	
9	622 - Lowland Shrub	7.1	N\A	Unspecified	
13	622 - Lowland Shrub	9.8	N\A	Unspecified	
15	622 - Lowland Shrub	3.9	N\A	Unspecified	
27	622 - Lowland Shrub	1588.1	N\A	Unspecified	
35	50 - Water	5.4	N\A	Unspecified	
36	622 - Lowland Shrub	23.8	N\A	Unspecified	
37	622 - Lowland Shrub	1.4	N\A	Unspecified	
44	622 - Lowland Shrub	3.2	N\A	Unspecified	
48	622 - Lowland Shrub	2.2	N\A	Unspecified	
56	50 - Water	3.5	N\A	Unspecified	
60	622 - Lowland Shrub	2.3	N\A	Unspecified	
63	622 - Lowland Shrub	2.3	N\A	Unspecified	
65	622 - Lowland Shrub	2.9	N\A	Unspecified	
67	622 - Lowland Shrub	24.3	N\A	Unspecified	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
68	622 - Lowland Shrub	26.4	N\A	Unspecified	
70	622 - Lowland Shrub	46.7	N\A	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.

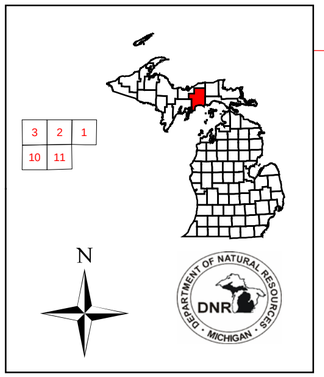
ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description

Cover Type & Treatment Map

Compartment 50
T43N, R15W, Sec. 1-3, 10, 11
County: Schoolcraft
Unit: Shingleton
YOE: 2013
Acres: 2671 GIS Calculated
Stand Examiner: Adam Petrelius
Map Revised: 9/15/2011
Map Phase: Pre-Review

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



Legend

- Miris Corners
- Remonumented Section Corners
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Snowmobile Trails
- Snowmobile Trail
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- State Forest Land

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Selection (Group, Single Tree)
- Out of YOE Treatments

Forest Stands
Level 3
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
- 500 - Water
- 622 - Lowland Shrub

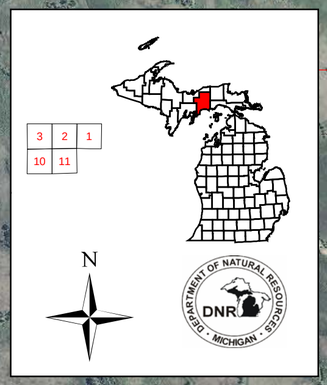
1 0.5 0 1 Miles

86°11'0"W 86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W 86°6'0"W 86°5'0"W
46°10'0"N 46°9'0"N 46°8'0"N 46°7'0"N

Stand Boundary Map

Compartment 50
T43N, R15W, Sec. 1-3, 10, 11
County: Schoolcraft
Unit: Shingleton
YOE: 2013
Acres: 2670 GIS Calculated
Stand Examiner: Adam Petrelius
Map Revised: 9/15/2011
Map Phase: Pre-Review

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



Legend
- Miris Corners
- Remonumented Section Corners
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Snowmobile Trails
- Snowmobile Trail
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands
- Level 3
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
  - 612 - Lowland Coniferous Forest

Non-Forest Stands
- Level 3
  - 500 - Water
  - 622 - Lowland Shrub

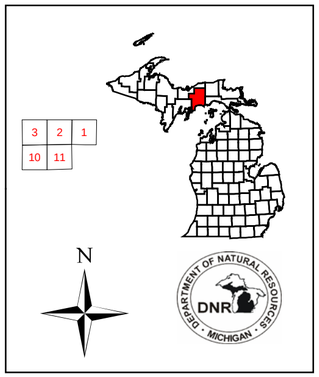
1 0.5 0 1 Miles

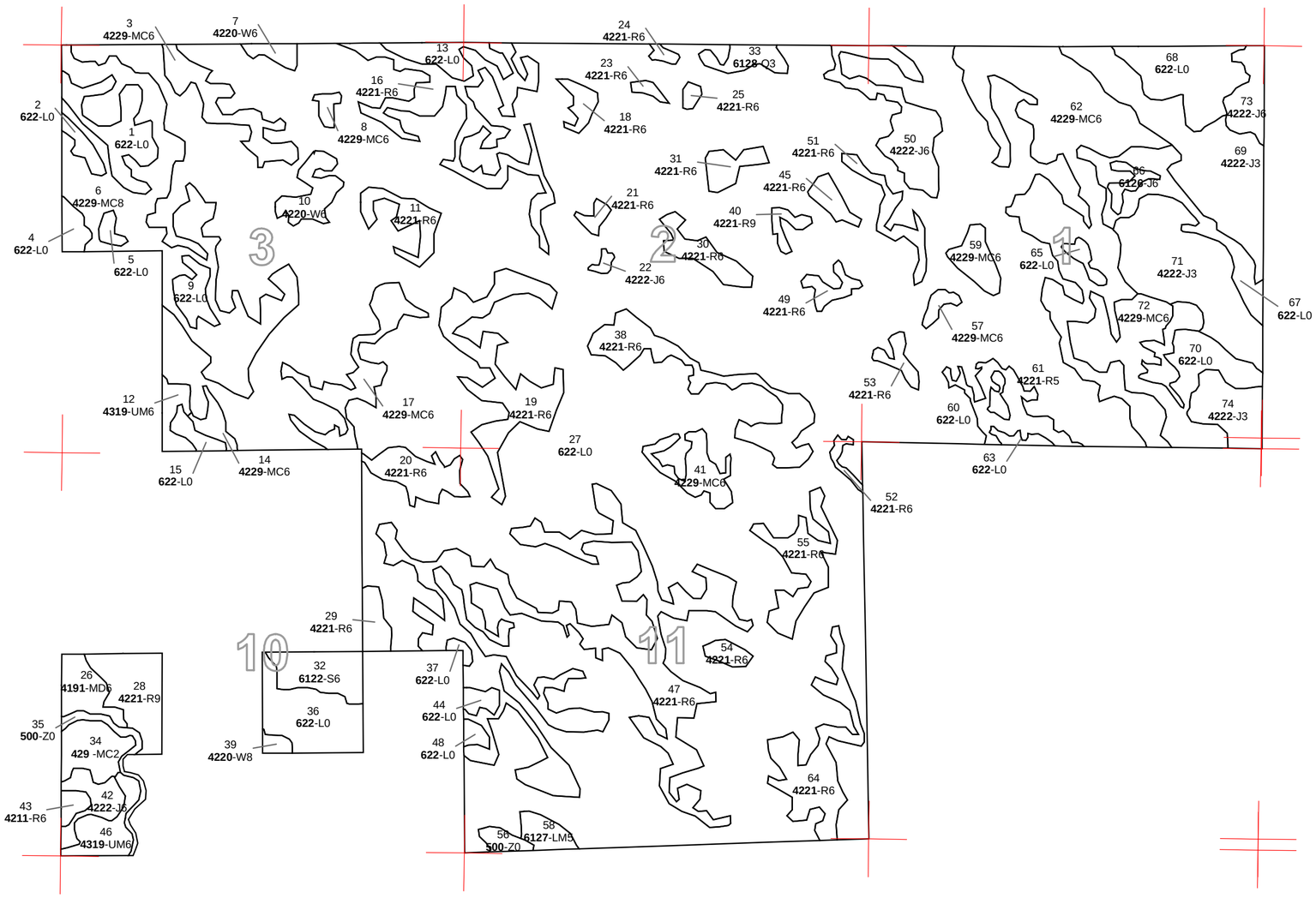
86°11'0"W 86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W 86°6'0"W 86°5'0"W
46°16'0"N 46°15'0"N

Compartment 50
T43N, R15W, Sec. 1-3, 10, 11
County: Schoolcraft
Unit: Shingleton
YOE: 2013
Acres: 2670 GIS Calculated
Stand Examiner: Adam Petrelius
Map Revised: 9/15/2011
Map Phase: Pre-Review

Dedicated & Proposed Special Conservation Area Map

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





Legend
- Miris Corners
- Remonumented Section Corners
- Stand Boundaries

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Forest Stands

Level 3
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3
- 500 - Water
- 622 - Lowland Shrub

1 0.5 0 1 Miles

86°11'0"W 86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W 86°6'0"W 86°5'0"W
46°10'0"N 46°9'0"N 46°8'0"N