



**Shingleton Forest Management Unit  
Compartment Review Presentation  
Compartment #38 Entry Year: 2012  
Compartment Acreage: 2,208 County: Schoolcraft**

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**Revision Date:** 7/15/2010

**Stand Examiner:** Adam Petrelius

**Legal Description:** T43N R16W, Sections 6, 7, 8, 17, 18

**Identified Planning Goals ('Management Area' or 'RMU', if applicable):** Compartment 38 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 with a few rolling hills. Elevation values range between 669-705 feet. Most of the compartment is forested with only a few stands classified as grass or lowland brush. Aspen/jack pine is the dominant cover type. Other abundant cover types lowland aspen and natural pine/mixed deciduous. Numerous soil types are located in this compartment. A few of the most abundant soils are Deford, Rousseau-Neconish-Finch, and Markey Mucky Peat. Major habitat types within the compartment, in order of abundance, are Unclassified Lowland and PVE.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State land within this compartment was acquired between 1927 and 1970. Most of the land was acquired around 1940. The compartment boundary borders private, federal, and state land. The southern boundary and northern boundaries border state land. The western boundary borders USFS land. The eastern boundary borders private land, mostly Plum Creek Timberlands. There are four 10 acre parcels located entirely within the compartment boundary. The compartment is used mostly by hunters, ORV users, and snowmobile riders.

**Unique, Natural Features:** None.

**Archeological, Historical, and Cultural Features:** None.

**Special Management Designations or Considerations:** None.

**Watershed and Fisheries Considerations:** Poor-to-Good. The Big Ditch is classified as SQCW as soon as it combines into one stream, in the upper half of Section 6. Even so, we know very little about its natural trout production or angler success when fishing it. However, Smith Creek is classified SQWW. There is no need to protect Smith Creek from encroachment by beaver, but protection from increased sand bedload is still a high priority.

**Wildlife Habitat Considerations:**

This compartment lies in the Seney Sand Lake Plain ecological sub-subsection. The growing season averages approximately 110 days with an extreme minimum temperature of  $-46^{\circ}$  F. Average annual snowfall in this area is around 120 inches. Presettlement forest in this area consisted primarily of red pine, jack pine, and aspen on the ridges. Lowlands were dominated by unforested marsh and black spruce/tag alder swamps. Currently a large portion of sections 6 and 7 are being drained by the *Big Ditch*. Non flooded

areas are dominated by either low herbaceous vegetation or regenerating aspen. Wet areas are covered by willow. Wildlife habitat management objectives for this compartment are primarily related to maintaining the open lands and encouraging early successional forest species. There are three bird species of concern known to exist either close to or within this compartment. Kirtland's warbler and prairie warbler have been documented within a mile of the compartment boundaries. The sharp-tailed grouse is known to have at least one (potentially more) lek within this compartment. Other wildlife species of interest known to utilize this compartment include tree swallows, kestrels, blue birds, ruffed grouse, woodcock, mink, beaver, woodchuck, coyote and red fox.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica Shale and Stonington Formation subcrop below the glacial drift. These formations do not have an economic use. The nearest gravel pit is 3 miles to the east. There is limited gravel potential on State lands.

**Vehicle Access:** Except for the areas containing low ground, the compartment has a decent system of forest roads that can be driven during the snow free months. State Highway M-94 travels east/west through the compartment. The Haywire Grade Snowmobile/ORV trail, Mint Farm Road, and Big Ditch Road, and Smith Creek Truck Trail also travel through the compartment.

**Survey Needs:** Survey help may be needed with stands along the eastern edge of the compartment.

**Recreational Facilities and Opportunities:** The Haywire Grade snowmobile trail and ORV route travels through the middle of the compartment.

**Fire Protection:** Response time to fires within this compartment from the Thompson field office will be slow. The compartment receives moderate use throughout fire season and human caused fires are a concern. Both spring and summer fires are likely to occur here. Organic soil conditions may cause problems for firefighters during dry summer months. Water sources are abundant and include the Big Ditch, Smith Creek, and additional unnamed tributaries.

➤ **The following reports from the Inventory are attached:**

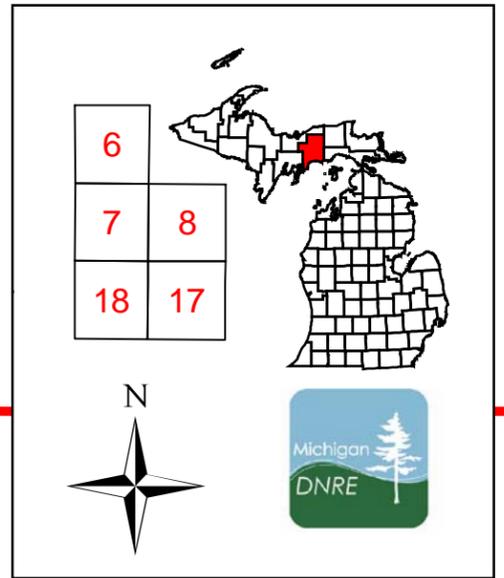
- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

➤ **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

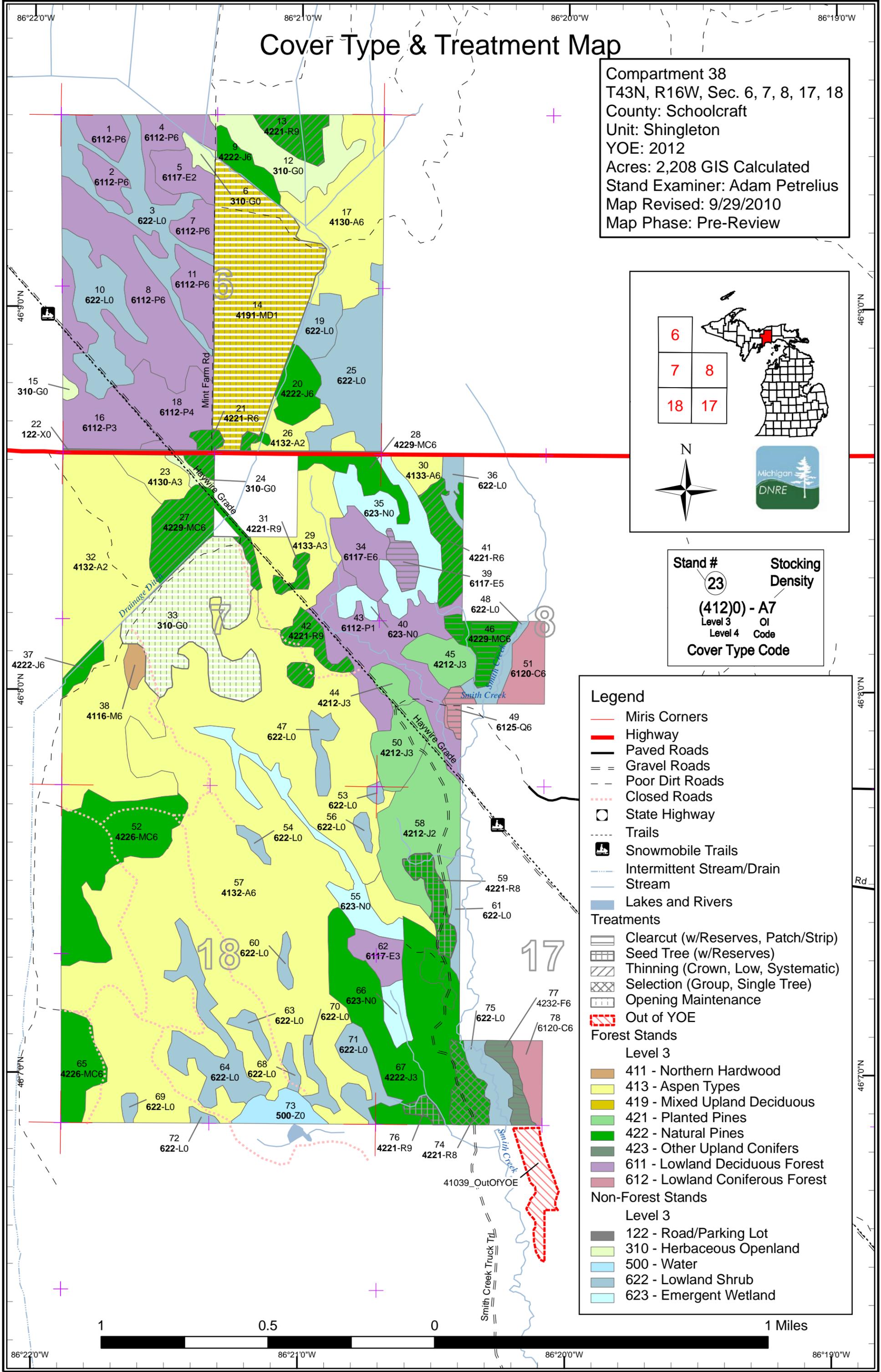
Compartment 38  
 T43N, R16W, Sec. 6, 7, 8, 17, 18  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2012  
 Acres: 2,208 GIS Calculated  
 Stand Examiner: Adam Petrelius  
 Map Revised: 9/29/2010  
 Map Phase: Pre-Review



**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

## Legend

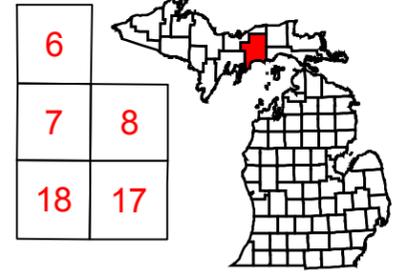
- Miris Corners
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- State Highway
- Trails
- ☒ Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Treatments**
- ☐ Clearcut (w/Reserves, Patch/Strip)
- ☐ Seed Tree (w/Reserves)
- ☐ Thinning (Crown, Low, Systematic)
- ☐ Selection (Group, Single Tree)
- ☐ Opening Maintenance
- ☐ Out of YOE
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



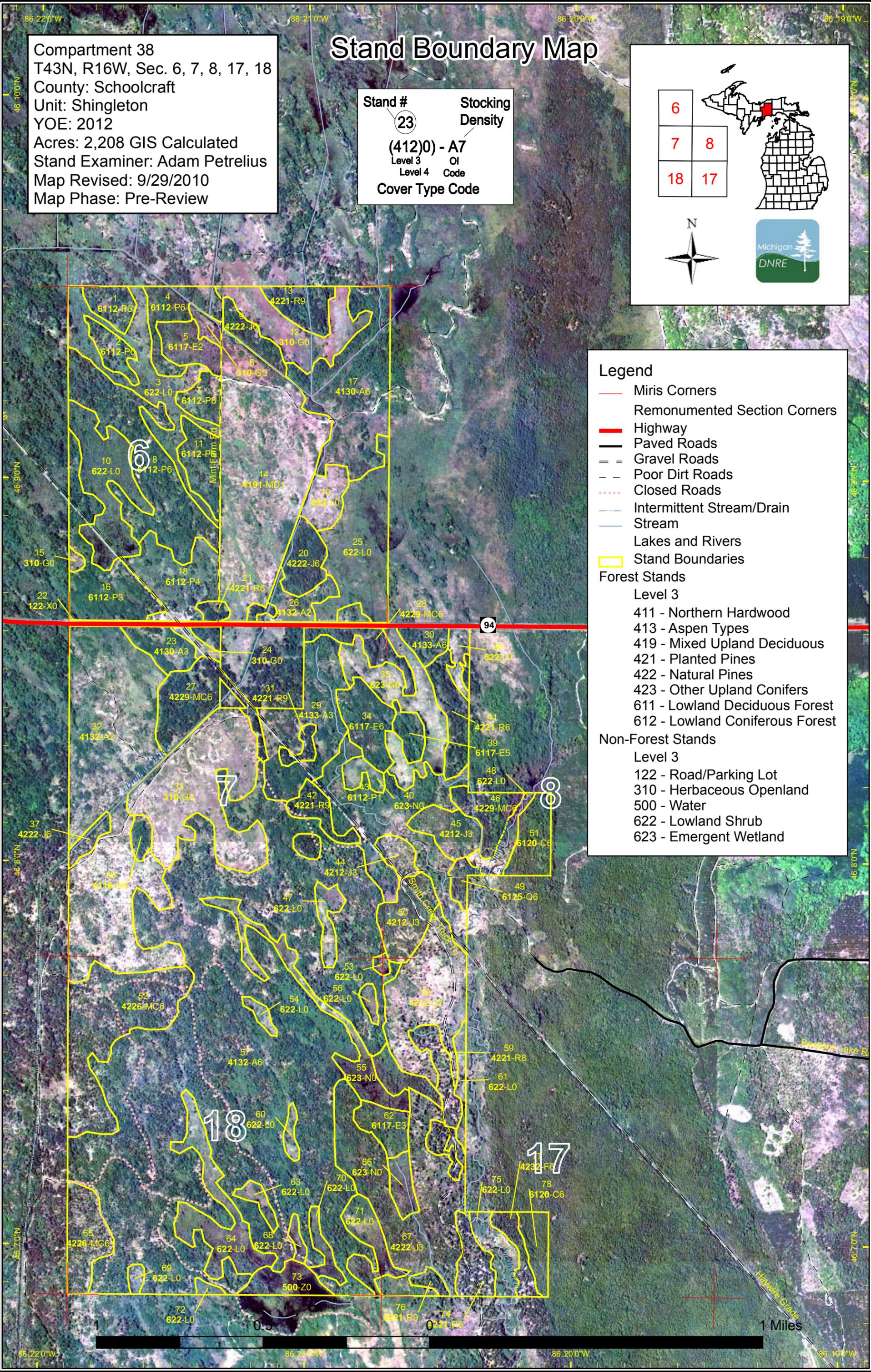
Compartment 38  
 T43N, R16W, Sec. 6, 7, 8, 17, 18  
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 Map Revised: 9/29/2010  
 Map Phase: Pre-Review

# 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
  - Gravel Roads
  - Poor Dirt Roads
  - Closed Roads
  - Intermittent Stream/Drain
  - Stream
  - Lakes and Rivers
  - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
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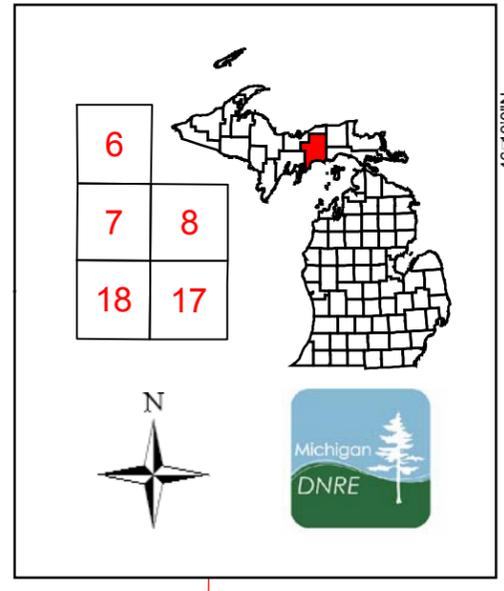


86:22'0"W 86:21'0"W 86:20'0"W 86:19'0"W

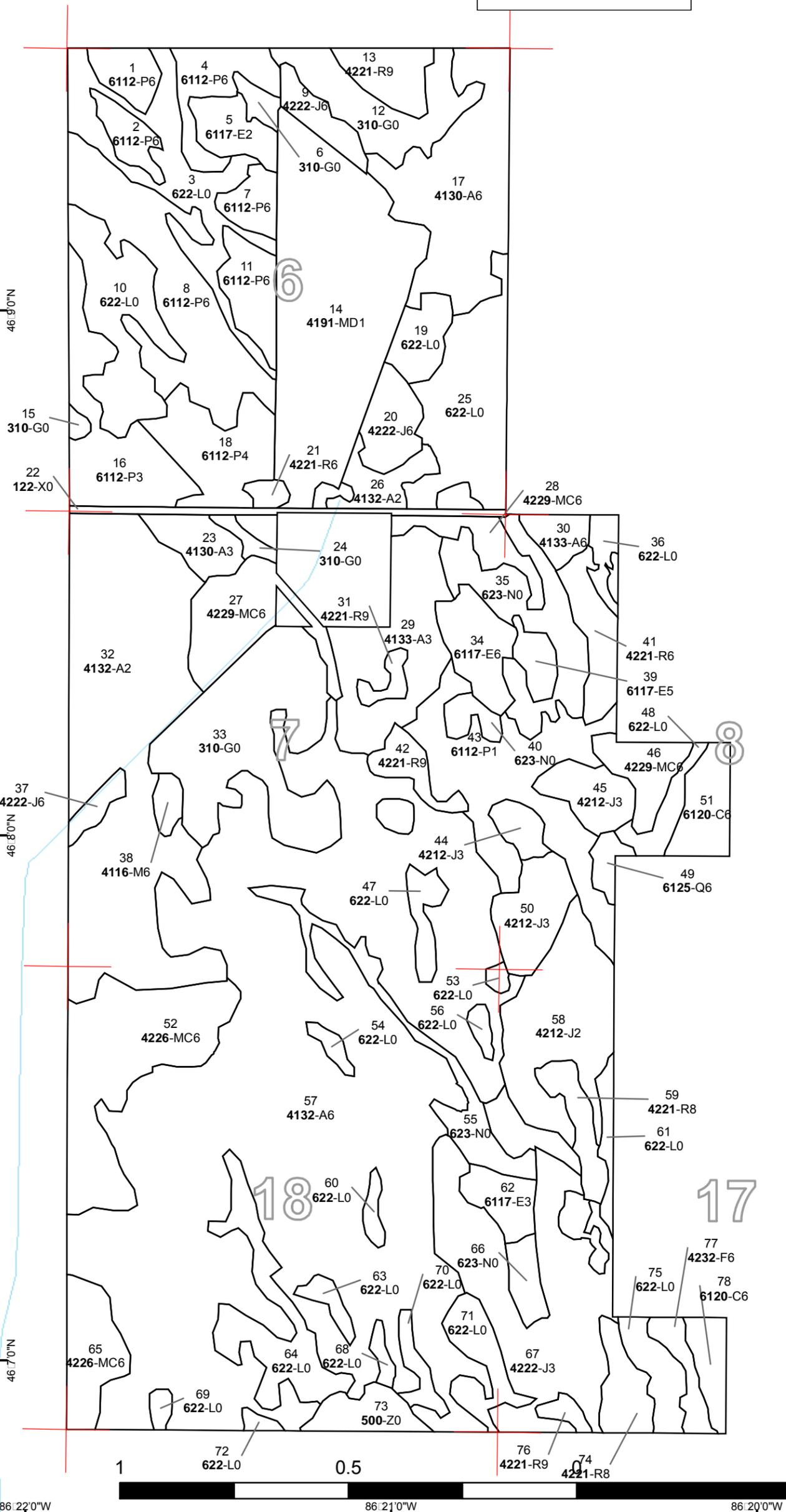
Compartment 38  
 T43N, R16W, Sec. 6, 7, 8, 17, 18  
 County: Schoolcraft  
 Unit: Shingleton  
 YOY: 2012  
 Acres: 2,208 GIS Calculated  
 Stand Examiner: Adam Petrelus  
 Map Revised: 9/29/2010  
 Map Phase: Pre-Review

# Dedicated & Proposed Special Conservation Area Map

Stand # **23**  
 Stocking Density  
**(4120) - 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
  - ▭ Stand Boundaries
  - Forest Stands
    - Level 3
    - 411 - Northern Hardwood
    - 413 - Aspen Types
    - 419 - Mixed Upland Deciduous
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 423 - Other Upland Conifers
    - 611 - Lowland Deciduous Forest
    - 612 - Lowland Coniferous Forest
  - Non-Forest Stands
    - Level 3
    - 122 - Road/Parking Lot
    - 310 - Herbaceous Openland
    - 500 - Water
    - 622 - Lowland Shrub
    - 623 - Emergent Wetland



86:22'0"W 86:21'0"W 86:20'0"W 86:19'0"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 +		Unretn Age
Aspen	0	0	201	27	611	8	0	0	0	0	0	0	0	0	0	846
Cedar	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	26
Herbaceous Openland	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Jack Pine	0	51	42	87	10	15	0	0	0	0	0	0	0	0	0	205
Lowland Aspen/Balsam Poplar	0	0	62	192	0	0	0	0	0	0	0	0	0	0	0	253
Lowland Conifers	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	13	30	0	0	0	7	0	0	0	0	0	0	0	51
Lowland Shrub	256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256
Marsh	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Mixed Upland Deciduous	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0	118
Natural Mixed Pines	0	0	0	0	83	0	27	28	0	0	0	0	0	0	0	138
Northern Hardwood	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	8	29	32	0	3	0	0	0	18	90
Upland Spruce/Fir	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>464</b>	<b>51</b>	<b>435</b>	<b>340</b>	<b>704</b>	<b>23</b>	<b>40</b>	<b>73</b>	<b>32</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>2208</b>



## Table 2 – Proposed Treatment Summaries

*Data updated before 2:00 PM*

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

**Compartment 038**  
**Total Compartment Acres: 2208**

### Acres by Treatment Type

Commercial Harvest - 137	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 19	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Conifers	5	0	0	0	0	0	5
Lowland Deciduous	7	0	0	0	0	0	7
Natural Mixed Pines	11	0	0	0	24	0	36
Red Pine	0	12	15	0	53	0	81
Upland Spruce/Fir	8	0	0	0	0	0	8
<b>Total</b>	<b>31</b>	<b>12</b>	<b>15</b>	<b>0</b>	<b>78</b>	<b>0</b>	<b>137</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
13	41038013_sm all-Cut	12.7	42210 - Natural Red Pine	High Density Log	73	Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. Red pine and white pine should be marked to 80 basal area where higher densities exist. <u>Specs:</u> <u>Other Comments:</u> Goal is to manage for red pine, and keep basal area high enough to shade out any aspen which will re-sprout. Buffer drainage ditch 25 feet. This will be the retention. <u>Next Steps:</u>									
21	41038021_sm all-Cut	7.3	42210 - Natural Red Pine	High Density Pole	56	Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. Mark red pine and white pine to 80 sq. ft. basal area where higher stocking exists. <u>Specs:</u> <u>Other Comments:</u> Minimize impacts to snowmobile trail. Buffer Big Ditch 50 feet minimum. Retention is portion of stand that lies east of the ditch. May need survey work. <u>Next Steps:</u>									
27	41038027_sm all-Cut	24.4	42290 - Natural Mixed Pine	High Density Pole	62	Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. Mark red pine and white pine to 80 basal area where thicker areas exist. <u>Specs:</u> <u>Other Comments:</u> Minimize impacts to snowmobile trail. Buffer Big Ditch 50 feet. This will be the retention area. May need survey work. <u>Next Steps:</u>									
31	41038031-Cut	4.2	42210 - Natural Red Pine	High Density Log	60	Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. Mark red pine and white pine to 80 basal area where higher densities exist. <u>Specs:</u> <u>Other Comments:</u> Small stand, no retention. Minimize impacts to snowmobile trail. <u>Next Steps:</u>									
39	41038039-Cut	7.3	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	60	Harvest	Clearcut	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. <u>Specs:</u> <u>Other Comments:</u> Minimize impacts to snowmobile trail. No retention, small stand. Will likely need to be winter cut and harvesting involves crossing a marsh. <u>Next Steps:</u> Alternative management objectives include any species mixture currently located onsite.									
41	41038041-Cut	16.4	42210 - Natural Red Pine	High Density Pole	74	Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. Mark red pine and white pine to 80 basal area if thicker areas exist. <u>Specs:</u> <u>Other Comments:</u> Minimize impacts to snowmobile trail. Buffer creek in south 50 feet. May need survey work. Stand retention will be the island located northeast of the main stand. <u>Next Steps:</u>									



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
42 41038042-Cut	12.7	42210 - Natural Red Pine	High Density Log	65	Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal

Prescription Cut all trees except hemlock and oak. Mark red pine and white pine to 80 basal area in thicker areas.

Specs:

Other Minimize impacts to snowmobile trail. No retention, small stand.

Comments:

Next

Steps:

46 41038046-Cut	11.5	42290 - Natural Mixed Pine	High Density Pole	52	Harvest	Clearcut with Reserves	Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Cut all trees except hemlock and oak.

Specs:

Other Minimize impacts to snowmobile trail. May need survey work. Buffer creeks 100 feet. These buffers will serve as the retention patches.

Comments:

Next

Steps: Scarify, trench and plant, trench and seed, burn, herbicide. Regenerate jack pine, but red pine, black spruce, and white pine are also acceptable species.

49 41038049-Cut	4.6	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	52	Harvest	Clearcut with Reserves	Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal
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Prescription Cut all trees except hemlock and oak.

Specs:

Other Minimize impacts to snowmobile trail. Buffer creek 100 feet. This will be retention area. May need survey work.

Comments:

Next

Steps: Scarify, trench and plant, trench and seed, burn, herbicide. Mid ground site, thick duff layer. Attempt to regenerate jack pine, but acceptable regeneration is any species mixture currently found onsite.

59 41038059-Cut	11.7	42210 - Natural Red Pine	Medium Density Log	63	Harvest	Seed Tree with Reserves	Natural Red Pine	Cmpt. Review Proposal
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Prescription Leave 10 sq. ft. basal area of red pine. These should be trees with well developed crowns.

Specs:

Other Cut only on bare ground for scarification purposes. Protect existing regeneration.

Comments:

Next

Steps: Scarify, trench and plant, trench and seed, burn, herbicide. Regenerate red pine.

74 41038074-Cut	12.4	42210 - Natural Red Pine	Medium Density Log	63	Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal
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Prescription Cut all trees except hemlock and oak. Mark red pine and white pine. Most of the older pine should be removed from stand. Poles should be

Specs: thinned in thicker areas. Regeneration holes should be made for red pine planting. Goal is unevenaged pine stand.

Other Harvest on bare ground only for scarification purposes. Protect existing jack pine, red pine, white pine regeneration. Retention - Buffer creek in northeast 50 feet.

Comments:

Next

Steps: Red pine and white pine regeneration is acceptable. If natural regen fails, plant red pine.



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
76 41038076-Cut	3.4	42210 - Natural Red Pine	High Density Log	90	Harvest	Seed Tree with Reserves	Natural Red Pine	Cmpt. Review Proposal

Prescription Cut all trees except hemlock and oak. Leave 10 sq. ft. basal area of red pine for seed trees. These trees should have well developed crowns.

Specs:

Other Comments: Harvest on bare ground only for scarification. Protect pine regeneration. Possible creek or drainage located in the east. No cut buffer of 50 feet against creek. Leave basal area higher within 100 feet of creek.

Next Steps: Scarify, trench and plant, trench and seed, burn, herbicide. Regenerate red pine.

77 41038077_sm all-Cut	8.1	42320 - Upland Spruce	High Density Pole	60	Harvest	Clearcut with Reserves	Upland Spruce	Cmpt. Review Proposal
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Prescription Cut all trees except hemlock and oak. Leave a few red pine and white pine for seed.

Specs:

Other Comments: 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 for adjacent treatment. There is a creek / drainage located in middle 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.

Next Steps: 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.

14 41038014-NonFor	117.5	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	15	Non-Forest Management	Brush Cutting	Mixed Upland Shrub	Cmpt. Review Proposal
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Prescription Remove woody vegetation from grass opening.

Specs:

Other Comments: Leave some small islands of trees that have dense stocking. Various wildlife species were noticed using these small clusters of trees. Buffer Big Ditch 50 feet.

Next Steps:

33 NF_41038033-NonFor	73.4	Non-Forested		0	Non-Forest Management	Brush Cutting	Mixed Upland Herbaceous	Cmpt. Review Proposal
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Prescription Remove woody vegetation according to wildlife division recommendations.

Specs:

Other Comments:

Next Steps:

**Total Treatment  
Acreage Proposed: 327.6**



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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
<p><u>Prescription:</u> Cut all trees except hemlock and oak. Leave a few red pine and white pine for seed.</p> <p><u>Specs:</u></p> <p><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.</p> <p><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.</p>								
41049_OutOfY OE-Cut	15.3				Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal
<p><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.</p> <p><u>Specs:</u></p> <p><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.</p> <p><u>Next Steps:</u> Natural regeneration of red pine, jack pine, and white pine is acceptable. Plant red pine if regeneration fails.</p>								
41088_OutOfY OE-Cut	2.3				Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal
<p><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.</p> <p><u>Specs:</u></p> <p><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.</p> <p><u>Next Steps:</u> Evaluate stand next year of entry for possible regeneration harvest. Try to maintain management objective of natural red pine.</p>								
41118_OutOfY OE_1-Cut	8.6				Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Cut all Jack Pine and mark Red and White Pine to 90 BA</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Cut with stand 34 comp 117</p> <p><u>Next Steps:</u></p>								
41179_OutOfY OE-Cut	4.2				Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<p><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.</p> <p><u>Specs:</u></p> <p><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</p> <p><u>Next Steps:</u></p>								
<b>Total Treatment Acreage Proposed:</b>		<b>45.1</b>						

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## Shingleton Mgt. Unit

## 5 – Forested Stands

Compartment: 038

Data updated before 2:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6112 - Lowland Aspen	High Density Pole	9.8	29		stands 1,2,4,6,7,10 were all cut at the same time. aspen/willow on low ground ; jack pine / red pine on ridges.
2	6112 - Lowland Aspen	High Density Pole	8.8	29		
4	6112 - Lowland Aspen	High Density Pole	18.4	29		stands 1,2,4,6,7,10 were all cut at the same time. aspen/willow on low ground ; jack pine / red pine on ridges.
5	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	12.9	15		New stand added. flooded in past by beaver? big ditch fire?
7	6112 - Lowland Aspen	High Density Pole	9.2	29		stands 1,2,4,6,7,10 were all cut at the same time. aspen/willow on low ground ; jack pine / red pine on ridges.
8	6112 - Lowland Aspen	High Density Pole	62.4	29		stands 1,2,4,6,7,10 were all cut at same time. aspen/willow on low ground; jack pine,red pine on ridges
9	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	9.9	39		
11	6112 - Lowland Aspen	High Density Pole	15.8	29		stands 1,2,4,6,7,10 were all cut at the same time. aspen/willow on low ground ; jack pine / red pine on ridges.
13	42210 - Natural Red Pine	High Density Log	14.0	73	81-110	cut all species. thin red pine and white pine to 80 where higher stocking exists. goal is to keep enough shade to prevent aspen regen
14	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	117.5	15		Stand swapped from Non-Forested to Forested. FTP C41-1261 is CLOSED. Site has revegetated naturally. Rich Mergener said that the current area does not have enough peat left to mine. He does not plan to harvest any more in the near future. The next harvesting location will need to be in a different location.
16	6112 - Lowland Aspen	High Density Sapling	37.3	21		
17	4130 - Aspen	High Density Pole	63.8	35		
18	6112 - Lowland Aspen	Low Density Pole	30.2	29		sparse aspen clones on ridges, lowland shrub in low ground
20	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	14.8	49		recent beaver activity along ditch
21	42210 - Natural Red Pine	High Density Pole	8.0	56	81-110	
23	4130 - Aspen	High Density Sapling	12.6	22		

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## Shingleton Mgt. Unit

## 5 – Forested Stands

Compartment: 038

Data updated before 2:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4132 - Aspen, Jack Pine	Medium Density	13.9	25		
27	42290 - Natural Mixed Pine	High Density Pole	28.5	62		
28	42290 - Natural Mixed Pine	High Density Pole	12.2	56		red pine occurs in patches and is not thick enough to thin. jp and aspen is still healthy
29	4133 - Aspen, Mixed Pine	High Density Sapling	45.3	16		Stand was formerly jack pine prior to harvest in 1986.
30	4133 - Aspen, Mixed Pine	High Density Pole	8.0	40		New stand added.
31	42210 - Natural Red Pine	High Density Log	4.2	60	111-140	
32	4132 - Aspen, Jack Pine	Medium Density	155.8	19		stand cut in 1975. opening maint. in 1991 (not 100 % sure)
34	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	18.9	22		
37	42220 - Natural Jack Pine	High Density Pole	5.0	28		
38	4116 - Mixed N. Hardwood - Aspen	High Density Pole	4.5	28	51-80	
39	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	7.3	60		New stand added. sparse, alder pockets.
41	42210 - Natural Red Pine	High Density Pole	17.6	74	111-140	
42	42210 - Natural Red Pine	High Density Log	12.7	65	111-140	
43	6112 - Lowland Aspen	Low Density Sapling	61.6	18		Stand swapped from Non-Forested to Forested. a lot of low pockets of alder. FTP C41-1426 is CLOSED. Work completed under ORV grant.
44	42120 - Planted Jack Pine	High Density Sapling	6.9	14		
45	42120 - Planted Jack Pine	High Density Sapling	14.5	14		
46	42290 - Natural Mixed Pine	High Density Pole	14.3	52		east edge is old beaver pond

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## Shingleton Mgt. Unit

## 5 – Forested Stands

Compartment: 038

Data updated before 2:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	5.0	52		
50	42120 - Planted Jack Pine	High Density Sapling	20.4	15		
51	6120 - Lowland Cedar	High Density Pole	15.9	90		ridges have big white pine, cedar, and hemlock. low ground is smaller cedar
52	42260 - Natural Pine, Mixed Deciduous	High Density Pole	62.5	30		
57	4132 - Aspen, Jack Pine	High Density Pole	547.1	30		
58	42120 - Planted Jack Pine	Medium Density	50.9	8		1999 regen check showed 19% success rate. Ridges were machine planted in 2001. 2006 regen check - 174 jack pine, 46 red pine, 23 white pine, 70 aspen, 46 black spruce. 2007 regen check 336 jack pine, 26 black spruce, 8 white pine, 67 red pine, 2 tamarack, 37 aspen. 2008 - FTP was closed with a letter.
59	42210 - Natural Red Pine	Medium Density Log	11.7	63	51-80	all species except red pine removed 10 years ago. regen is decent
62	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	11.5	23		Stand swapped from Non-Forested to Forested.
65	42260 - Natural Pine, Mixed Deciduous	High Density Pole	20.8	30		
67	42220 - Natural Jack Pine	High Density Sapling	82.3	23		
74	42210 - Natural Red Pine	Medium Density Log	18.2	Uneven Age		New stand added. 3 age classes-90,63,23 yrs
76	42210 - Natural Red Pine	High Density Log	3.4	90		New stand added.
77	42320 - Upland Spruce	High Density Pole	8.4	60		
78	6120 - Lowland Cedar	High Density Pole	10.1	90		smaller trees in east



Stand	Cover Type	Acres	Gen Cmts:
3	622 - Lowland Shrub	42.2	
6	310 - Herbaceous Openland	4.1	old beaver flooding
10	622 - Lowland Shrub	38.0	
12	310 - Herbaceous Openland	30.1	
15	310 - Herbaceous Openland	1.6	
19	622 - Lowland Shrub	12.4	
22	122 - Road/Parking Lot	8.7	
24	310 - Herbaceous Openland	3.2	
25	622 - Lowland Shrub	47.8	
33	310 - Herbaceous Openland	73.4	open maint. occurred in 2005.
35	623 - Emergent Wetland	36.7	
36	622 - Lowland Shrub	6.0	
40	623 - Emergent Wetland	5.6	
47	622 - Lowland Shrub	7.9	
48	622 - Lowland Shrub	8.4	
53	622 - Lowland Shrub	1.7	
54	622 - Lowland Shrub	3.0	
55	623 - Emergent Wetland	24.2	



Stand	Cover Type	Acres	Gen Cmts:
56	622 - Lowland Shrub	2.8	
60	622 - Lowland Shrub	3.3	
61	622 - Lowland Shrub	5.9	
63	622 - Lowland Shrub	4.4	
64	622 - Lowland Shrub	31.4	
66	623 - Emergent Wetland	7.8	
68	622 - Lowland Shrub	2.8	
69	622 - Lowland Shrub	2.4	
70	622 - Lowland Shrub	6.0	
71	622 - Lowland Shrub	15.5	
72	622 - Lowland Shrub	1.8	
73	50 - Water	12.1	
75	622 - Lowland Shrub	12.5	



**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



**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.