



**Shingleton Forest Management Unit**  
**Compartment Review Presentation**  
**Compartment #128                      Entry Year: 2012**  
**Compartment Acreage: 1667    County: Schoolcraft**

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**Revision Date:** 10/26/2012

**Stand Examiner:** Rick Hill

**Legal Description:** 47N 14W Sections: 16 21 28 33

**Identified Planning Goals ('Management Area' or 'RMU', if applicable):** Danaher Kingston Outwash Management

**Management Goals:** Multiple use management with emphases on timber, wildlife, fisheries and biodiversity.

**Soil and Topography:** Most of compartment within Seney Drainage LTA. North portion is within Kingston Outwash LTA. Small part to far north is within Munising Moraine LTA. Terrain is level with 2 north/south ridges near the Fox River

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The compartment is primarily contiguous state ownership, with two private parcels contained within section 16 to the north. There is one structure within the NW private parcel.

**Unique, Natural Features:** Spring pond is a tributary of the Fox River. It is fed by numerous springs flowing out of the base of a steep hillside encircling the pond. The outlet of the pond is approximately 20 feet wide, and shows evidence of an old wooden dam. Wood Turtle (*Clemmys insculpta*, state special concern) could occur in and along Fox River. The prescribed treatments in this compartment are unlikely to adversely impact this species if best management practices are followed along these riparian corridors. There is also potential for nesting red-shouldered hawk (*Buteo lineatus*, state threatened) and Northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of northern hardwoods, white pine, and red pine (goshawk only).

**Archeological, Historical, and Cultural Features:** At least one old pine camp is found within the compartment. An old wooden dam crosses the outlet of Spring Pond

**Special Management Designations or Considerations:** The Fox River and adjacent stands within 200 feet of the edge of the river are within the Fox River Natural River Management Zone

**Watershed and Fisheries Considerations:** Fisheries Values - Excellent. This section of the Fox River is also classified First Quality Cold Water. We have recently cut back our stocking, to allow for and to verify increased natural trout production.

**Wildlife Habitat Considerations:** This compartment is located along the east bank of the Fox river in the Seney Sand Lake Plain Sub-subsection. The growing season in this area averages between 100 and 130 days. Extreme winter low temperatures are around -40 degrees F. Average snowfall is approximately 160 inches. General Land office notes show the presettlement vegetation was dominated by a conifer/hardwood mixed forest consisting of hemlock, white pine, beech, maple, yellow birch, and balsam fir. Natural disturbances probably consisted of windthrow and fire in this compartment. It appears that extensive logging

followed by hot slash fires altered the vegetative and soil characteristics of the area. Currently the forest within this compartment is dominated by planted red pine. Northern hardwood and white pine stands also occur in fairly sizeable stands. Aspen and jack pine stand occur to a lesser extent. A number of grassy openings also exist. The wildlife habitat management objectives for this compartment include regaining some of the original structure in the northern hardwood stands and managing for species and structural diversity. This will be accomplished through the under-planting of white pine and oak, leaving white birch for seed trees and snag formation, and leaving large diameter trees in treated white pine and hardwood stands. There are no known endangered, threatened, or special concern species in this compartment. Some wildlife species of interest that potentially use this compartment include brown creeper, Blackburnian warbler, smooth green snake, marten, black bear, spruce grouse, ruffed grouse, and white-tailed deer.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is approximately 70 feet of local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Limestones subcrop below the glacial drift. The Trenton and Black River are 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:** There are a series of trail roads that run through the compartment. These roads connect to the Sunken Lake Road and eventually M-77.

**Survey Needs:** None needed

**Recreational Facilities and Opportunities:** Recreation in this area consists of Hunting fishing and trapping with berry picking and ORV use as secondary uses.

**Fire Protection:** Higher risk pine fuel types present in a fairly remote location.

**Additional Compartment Information:** none.

➤ **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**

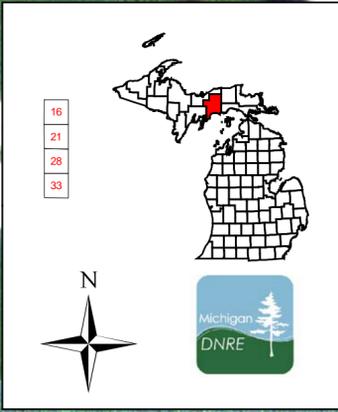
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand boundaries, cover types, and numbers**
- ◆ **Proposed treatments**
- ◆ **Details on the road access system**



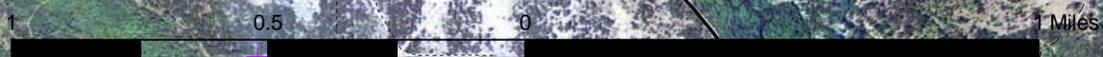
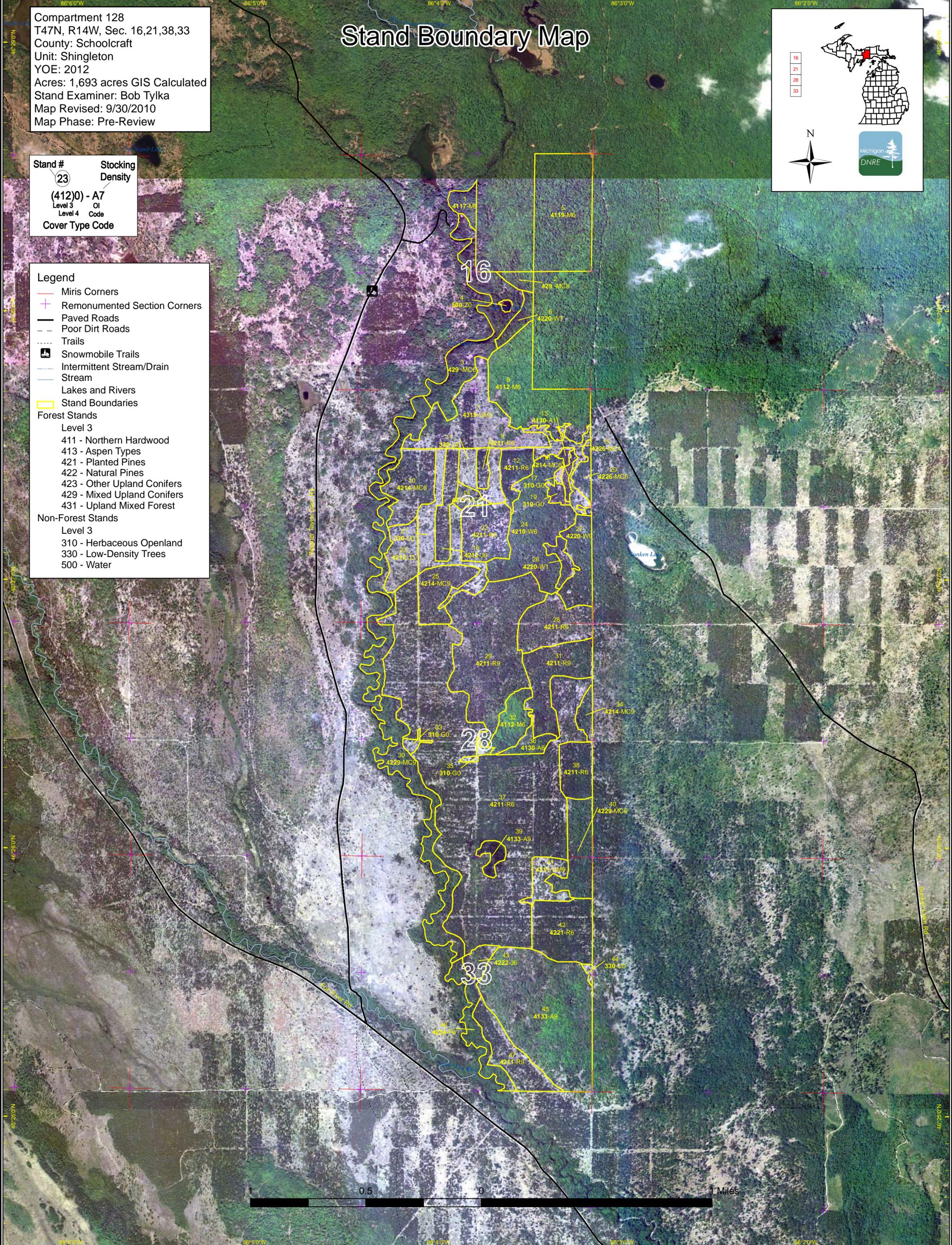
# Stand Boundary Map

Compartment 128  
 T47N, R14W, Sec. 16,21,38,33  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2012  
 Acres: 1,693 acres GIS Calculated  
 Stand Examiner: Bob Tylka  
 Map Revised: 9/30/2010  
 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
  - ⋯ Intermittent Stream/Drain
  - Stream
  - Lakes and Rivers
  - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 500 - Water



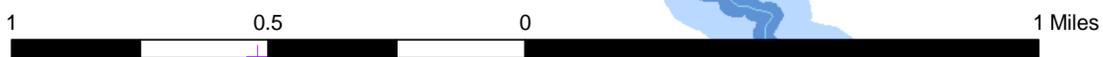
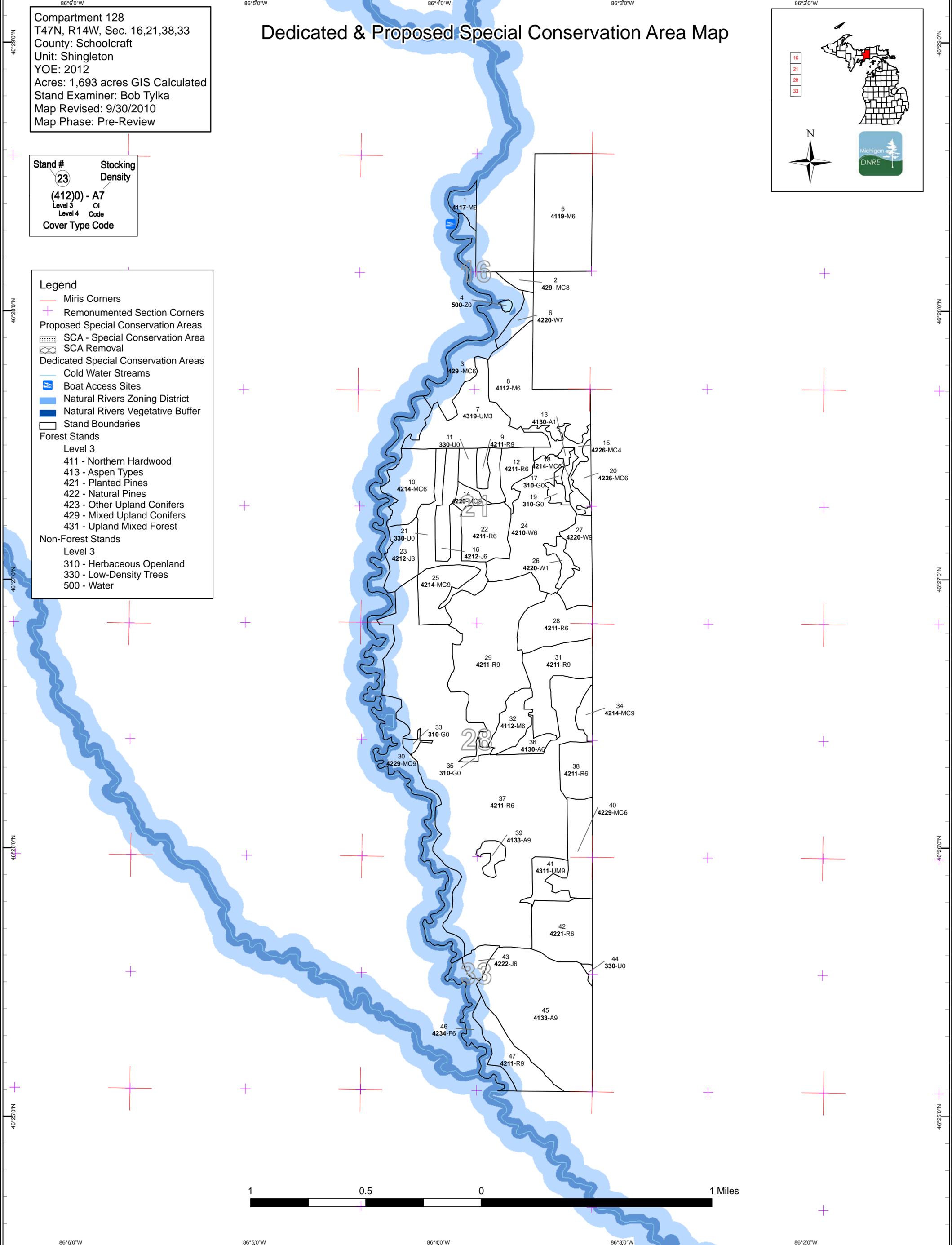
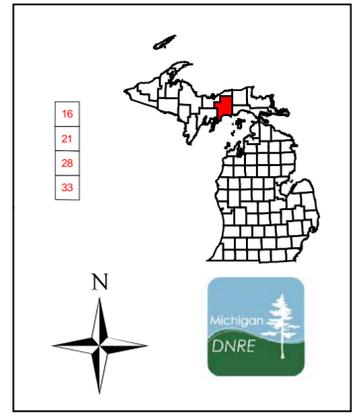
# Dedicated & Proposed Special Conservation Area Map

Compartment 128  
 T47N, R14W, Sec. 16,21,38,33  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2012  
 Acres: 1,693 acres GIS Calculated  
 Stand Examiner: Bob Tylka  
 Map Revised: 9/30/2010  
 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
- Boat Access Sites
- Natural Rivers Zoning District
- Natural Rivers Vegetative Buffer
- Stand Boundaries
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- Non-Forest Stands
- Level 3
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water



86°6'0"W 86°5'0"W 86°4'0"W 86°3'0"W 86°2'0"W

46°25'0"N 46°24'0"N 46°23'0"N 46°22'0"N 46°21'0"N 46°20'0"N

46°25'0"N 46°24'0"N 46°23'0"N 46°22'0"N 46°21'0"N 46°20'0"N

**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 +		Uneten Age
Aspen	0	2	0	0	9	137	0	7	0	0	0	0	0	0	0	154
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Jack Pine	0	22	0	0	19	0	9	0	0	0	0	0	0	0	0	49
Low-Density Trees	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Natural Mixed Pines	0	0	0	0	0	6	0	49	0	9	0	0	0	100	0	164
Northern Hardwood	0	0	0	0	0	0	0	28	154	0	0	0	0	0	0	182
Planted Mixed Pines	0	0	0	0	30	0	35	7	0	0	0	0	0	0	0	72
Red Pine	0	0	0	0	0	0	54	174	0	0	112	0	0	0	382	722
Upland Conifers	0	0	0	0	0	0	0	6	0	0	0	0	0	59	0	65
Upland Mixed Forest	0	0	0	16	0	0	0	63	0	0	0	0	0	0	0	79
Upland Spruce/Fir	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	23
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	8	0	0	0	0	0	0	9	72	0	0	0	0	27	115
<b>Total</b>	<b>68</b>	<b>31</b>	<b>0</b>	<b>16</b>	<b>58</b>	<b>143</b>	<b>120</b>	<b>335</b>	<b>163</b>	<b>81</b>	<b>112</b>	<b>0</b>	<b>0</b>	<b>159</b>	<b>408</b>	<b>1694</b>



## Table 2 – Proposed Treatment Summaries

*Data updated before 2:00 PM*

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

**Compartment 128**  
**Total Compartment Acres: 1694**

### Acres by Treatment Type

Commercial Harvest - 320	Site Prep - 0	Tree Planting - 10	Prescribed Burn - 0	Other - 0
Habitat Cut - 314	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	144	0	0	0	0	0		144
<b>Jack Pine</b>	9	0	0	0	0	0		9
<b>Northern Hardwood</b>	0	92	0	0	0	0		92
<b>Planted Mixed Pines</b>	7	0	0	0	0	0		7
<b>Red Pine</b>	0	0	0	0	319	0		319
<b>Upland Mixed Forest</b>	63	0	0	0	0	0		63
<b>Total</b>	<b>223</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>319</b>	<b>0</b>		<b>634</b>



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7 41128007-Cut	63.1	4319 - Mixed Upland Forest	High Density Sapling	60	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal

Prescription Under contract Red pine project sale  
Specs:

Other  
Comments:

Next  
Steps:

8 41128008-Cut	72.6	4112 - Maple, Beech, Cherry Association	High Density Pole	71	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Thin stand to 80 Square feet release crop trees, cut beech displaying symptoms of beech bark disease leave resistant trees when found also  
Specs: leave a few beech for snags and mast production. Favor mesic conifers and conifers placing gaps in areas where they may regenerate.

Other Some survey work may be needed.  
Comments:

Next Acceptable regeneration is a mix of white pine, sugar maple, red maple, cherry, yellow beech, Balsam fir, spruce and hemlock  
Steps:

9 41128009-Cut	5.8	42110 - Planted Red Pine	High Density Log	55	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin or equivalent if rows are sparse.  
Specs:

Other Group with hardwood to the north or pine to the south  
Comments:

Next  
Steps:

31 41128031-Cut	42.5	42110 - Planted Red Pine	High Density Log	60	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin or equivalent if rows are sparse. also cut all jack pine and aspen, cut red maple and white pine for access. do not cut any oak or  
Specs: hemlock.

Other  
Comments:

Next  
Steps:

32 41128032-Cut	19.2	4112 - Maple, Beech, Cherry Association	High Density Pole	63	Harvest	Group Selection	R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Thin stand to 70 Square feet release crop trees, cut beech displaying symptoms of beech bark disease leave resistant trees when found also  
Specs: leave a few beech for snags and mast production. Favor mesic conifers and conifers placing gaps in areas where they may regenerate.

Other Acceptable regeneration is a mix of white pine, sugar maple, red maple, cherry, yellow birch, Balsam fir, spruce and hemlock  
Comments:

Next  
Steps:

34 41128034-Cut	7.4	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Log	60	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription Cut all species but red and white pine mark those species for removal leave 40 to 50 square feet.  
Specs:

Other Acceptable regeneration would be jack pine, aspen and paper birch.  
Comments:

Next If regen fails plant jack pine  
Steps:



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37 41128037-Cut	175.7	42110 - Planted Red Pine	High Density Pole	60	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription Third row thin or equivalent if rows are sparse.Specs:Other Group with other stands in the areaComments:NextSteps:

38 41128038-Cut	21.5	42110 - Planted Red Pine	High Density Pole	60	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin or equivalent if rows are sparse. also cut all jack pine and aspen, cut red maple and white pine for access.Specs:Other Cut with other stands in the area.Comments:NextSteps:

39 41128039-Cut	7.0	4133 - Aspen, Mixed Pine	High Density Log	60	Harvest	Clearcut with Reserves	Birch, Aspen	Cmpt. Review Proposal
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Prescription Cut all species but red and white pine mark those species for removal. Also leave all oak and hemlock.Specs:Other Acceptable regeneration is white pine, red pine, jack pine, aspen and paper birch.Comments:NextSteps: Plant jack pine if regeneration fails.

42 41128042-Cut	42.8	42210 - Natural Red Pine	High Density Pole	60	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin or equivalent if rows are sparse. also cut all jack pine and aspen, cut red maple and white pine for access. Leave all oak and hemlockSpecs:Other Group with other stands in the areaComments:NextSteps:

43 41128043-Cut	8.6	42220 - Natural Jack Pine	High Density Pole	57	Harvest	Clearcut with Reserves	Planted Jack Pine	Cmpt. Review Proposal
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Prescription Clearcut this stand Leave all hemlock and oak, Mark red and white pine to cut. mark as a thinning within the fox river corridor as this will help the conversion to a longer lived cover type.Specs:Other  
Comments:NextSteps: Plant jack pine after the harvest acceptable regeneration is jack pine.

45 41128045-Cut	136.6	4133 - Aspen, Mixed Pine	High Density Log	40	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
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Prescription Clearcut this stand Leave all hemlock and oak, Mark red and white pine to leave marking mainly super canopy log white pine and red pine that meet the same description as well as some red pine that can make it another rotation. Per Wildlife Devision Use two inch spec.Specs:Other group with other stands in the area. Acceptable regeneration is white pine, red pine, red maple, jack pine, aspen and paper birch.  
Comments:NextSteps: Plant jack pine in areas that fail to regenerate.

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47 41128047-Cut	31.1	42110 - Planted Red Pine	High Density Log	60	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription: Third row thin or equivalent if rows are sparse. also cut all jack pine and aspen, cut red maple and white pine for access. Leave all oak and hemlock.

Other Comments: Group with stands in area or stands in compartment to the south.

Next Steps:

13 41128013-Plant	1.9	4130 - Aspen	Low Density Sapling	3	Tree Planting	Hand Plant	Planted Jack Pine	Cmpt. Review Proposal
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Prescription: Natural jack pine regeneration has failed. Plant per TMS spec.

Specs:

Other Comments:

Next Steps:

26 41128026-Plant	7.6	42200 - Natural White Pine	Low Density Sapling	5	Tree Planting	Hand Plant	Planted Red Pine	Cmpt. Review Proposal
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Prescription: Natural jack pine regeneration has failed. Plant per TMS spec.

Specs:

Other Comments:

Next Steps:

**Total Treatment  
Acreage Proposed: 643.4**



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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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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 havest 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 havest. 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 confers. 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>						

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## Shingleton Mgt. Unit

## 5 – Forested Stands

Data updated before 2:00 PM

Compartment: 128

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4117 - Mixed N. Hardwood - Pine	High Density Log	9.0	63	111-140	Hardwood stand along fox river.
2	429 - Mixed Upland Conifers	Medium Density Log	6.1	60	1-50	
3	429 - Mixed Upland Conifers	High Density Pole	59.0	120	81-110	This is the riparian area along the fox river.
5	4119 - Mixed Northern Hardwoods	High Density Pole	81.0	71	81-110	
6	42200 - Natural White Pine	Low Density Log	9.0	75		Cut last YOE decent maple regen.
7	4319 - Mixed Upland Forest	High Density Sapling	63.1	60		Under contract rpp sale.
8	4112 - Maple, Beech, Cherry Association	High Density Pole	72.6	71	111-140	
9	42110 - Planted Red Pine	High Density Log	5.8	55	81-110	Poor red pine stand. Much of the stand failed resulting in short open grown trees.
10	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Pole	34.7	56	51-80	Failed red pine plantation filling in with aspen, white pine and jack pine cut the stand when the aspen and jack pine are of merchantable size.
12	42110 - Planted Red Pine	High Density Log	16.3	55	111-140	Thined Red Pine stand
13	4130 - Aspen	Low Density Sapling	1.9	3		
14	42290 - Natural Mixed Pine	High Density Pole	6.3	40	51-80	
15	42260 - Natural Pine, Mixed Deciduous	Low Density Pole	16.1	60		An opening filling in with White pine and Red pine.
16	42120 - Planted Jack Pine	High Density Pole	18.8	35	81-110	
18	42140 - Planted Mixed Pine	High Density Pole	3.8	30		Failed red pine plantation, jack pine has been planted in to fill in the stand it looks good.
20	42260 - Natural Pine, Mixed Deciduous	High Density Log	9.2	80	81-110	
22	42110 - Planted Red Pine	High Density Log	31.5	56	51-80	Failed red pine plantation filling in with aspen, white pine and jack pine cut the stand when the aspen and jack pine are of merchantable size.

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## Shingleton Mgt. Unit

## 5 – Forested Stands

Data updated before 2:00 PM

Compartment: 128

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42120 - Planted Jack Pine	High Density Sapling	21.8	6		
24	42100 - Planted White Pine	High Density Pole	72.0	80	81-110	Thinned white and red pine, about 80Sf of residual.
25	42140 - Planted Mixed Pine	High Density Log	26.1	35		
26	42200 - Natural White Pine	Low Density Sapling	7.6	5		
27	42200 - Natural White Pine	High Density Log	26.7	Uneven Age	81-110	This is a white pine stand that was cut in a shelterwood seed system about 30 years ago the white pine is coming back quite well.
28	42110 - Planted Red Pine	High Density Pole	36.6	60	81-110	Cut 20 years ago enter when aspen is merchantable.
29	42110 - Planted Red Pine	High Density Log	112.5	92	111-140	
30	42290 - Natural Mixed Pine	High Density Pole	100.3	120	81-110	This stand is in the natural river buffer along fox river.
31	42110 - Planted Red Pine	High Density Log	42.5	60	171-200	
32	4112 - Maple, Beech, Cherry Association	High Density Pole	19.2	63	141-170	
34	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Log	7.4	60	111-140	
36	4130 - Aspen	High Density Pole	8.9	30		Off site aspen looks like a mix of ages.
37	42110 - Planted Red Pine	High Density Pole	381.7	Uneven Age	81-110	
38	42110 - Planted Red Pine	High Density Pole	21.5	60	171-200	Red pine with better stocking then other stands in area.
39	4133 - Aspen, Mixed Pine	High Density Pole	7.0	60		
40	42290 - Natural Mixed Pine	High Density Pole	32.6	61	81-110	
41	4311 - Pine, Aspen Mix	High Density Sapling	15.9	20		
42	42110 - Planted Red Pine	High Density Pole	42.8	60	111-140	

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Shingleton Mgt. Unit

**5 – Forested Stands**  
*Data updated before 2:00 PM*

Compartment: 128  
Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>43</b>	42220 - Natural Jack Pine	High Density Pole	8.6	57		
<b>45</b>	4133 - Aspen, Mixed Pine	High Density Log	136.6	40	1-50	
<b>46</b>	42340 - Upland Spruce/Fir	High Density Pole	22.9	53		
<b>47</b>	42110 - Planted Red Pine	High Density Pole	31.1	60	81-110	



Stand	Cover Type	Acres	Gen Cmts:
4	50 - Water	1.4	
11	3302 - Low Density Conifer Trees	17.8	
17	310 - Herbaceous Openland	1.3	This stand is a frost pocket
19	310 - Herbaceous Openland	4.2	
21	3302 - Low Density Conifer Trees	36.3	
33	3102 - Grass	2.8	
35	3102 - Grass	2.8	
44	3302 - Low Density Conifer Trees	1.4	



### 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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
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.