



Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #007 Entry Year: 2012
Compartment Acreage: 1250 County: Schoolcraft

Revision Date: October 22, 2010

Stand Examiner: Robert Tylka

Legal Description: T44N-R13W, Sections 24, 25 and 36

Identified Planning Goals ('Management Area' or 'RMU', if applicable): This compartment is in the Milakokia Lakes Management Area.

Management Goals: Timber production and wildlife habitat are primary goals here. The public recreational facilities (see notes below) are also used during the appropriate seasons.

Soil and Topography: This area features flat to gently rolling terrain on the Buried Moraine and Newberry Moraine Land Type Associations. Much of the state land in this compartment consists of low wetlands on soils such as Carbondale muck; upland portions of the compartment are generally on sandier soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State lands in Compartment 007 consist of two small parcels and a pair of larger blocks, all east of Highway M-77. A significant amount of land in this township to the west of Highway M-77 is owned by either the state or the U.S. Government as part of the Seney National Wildlife Refuge. Several thousand acres of corporate timber lands are located throughout the township, and numerous homes & farms are also present.

Unique, Natural Features: Common loon (*Gavia immer*, state threatened) have been known to utilize Kennedy Lake, Little Mud Lake, and Tee Lake for nesting, and there is potential for this species to occur in Stewart Lake. Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Mud Creek, Mead Creek and Tad Creek. Osprey (*Pandion haliaetus*, state threatened) and bald eagle (*Haliaeetus leucocephalus*, state threatened) are known from the general area and there is potential for these raptors to occur within this compartment. 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, mixed swamp conifer, mature aspen and swamp hardwood.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations: The northwest part of this compartment in Section 1 of T44N R13W lies within an area designated as deer wintering habitat.

Watershed and Fisheries Considerations: Fisheries Values, Marginal. Kennedy Lake is very shallow, and grows bullheads, pike, and some perch – and some of the largest snapping turtles I've ever had to pull out of a net. Although all of the tributaries to the Manistique River: Mud Creek to the north, the creeks between Kennedy and Stewart Lakes, and from Stewart Lake to Mead Creek, and Mead Creek itself, are all SQWW, protection from sand erosion should be high priority. Sand entering the system here will take possibly several hundred years to migrate downstream and out into Lake Michigan. The Manistique River is so inundated with sand now that we should be trying to limit ALL new sources of erosion within this watershed. Eventually, the sand that is already in the river will move on through with help from spring floods.

Wildlife Habitat Considerations: This compartment lies within the St. Ignace sub-subsection. The growing season is 130 days. Extreme winter low temperature is -46° F. Annual snowfall averages 80 inches. Upland presettlement vegetation within this compartment was most likely dominated by northern hardwoods and hemlock-beech forest. Lowlands were primarily conifer covered including cedar, tamarack, and black spruce. Windthrow was most likely the major disturbance regime in this area. From a land ownership perspective, this is one of the most highly fragmented compartments in the Shingleton forest area. Deciduous vegetation has shifted heavily toward aspen, while the coniferous component is primarily cedar. Wildlife habitat management objectives consist of providing a diversity of early successional deciduous covers while maintaining thermal cover in the lowlands. Osprey, loons, and bald eagles have been reported in or near this compartment.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Silurian Cabothead Shale subcrops below the glacial drift. There is no current economic use for the Cabothead. Sandpits and gravel pits are located throughout this area, mostly associated with uplands. There appears to be some gravel potential on State lands.

Vehicle Access: Numerous paved/improved county roads exist throughout the area, but wet terrain renders some areas inaccessible. There are few woods roads providing year-round access to the state forest lands.

Survey Needs: None identified at this time.

Recreational Facilities and Opportunities: There is a DNR boat landing on state land at the north end of Kennedy Lake, and Snowmobile Trail #432 passes through the compartment. The area also provides good opportunities for hunting, fishing & trapping.

Fire Protection: Access for fire suppression on state lands is limited in many places by the low, wet terrain. In contrast, access to private lands via the public road network is reasonably good.

Additional Compartment Information:

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

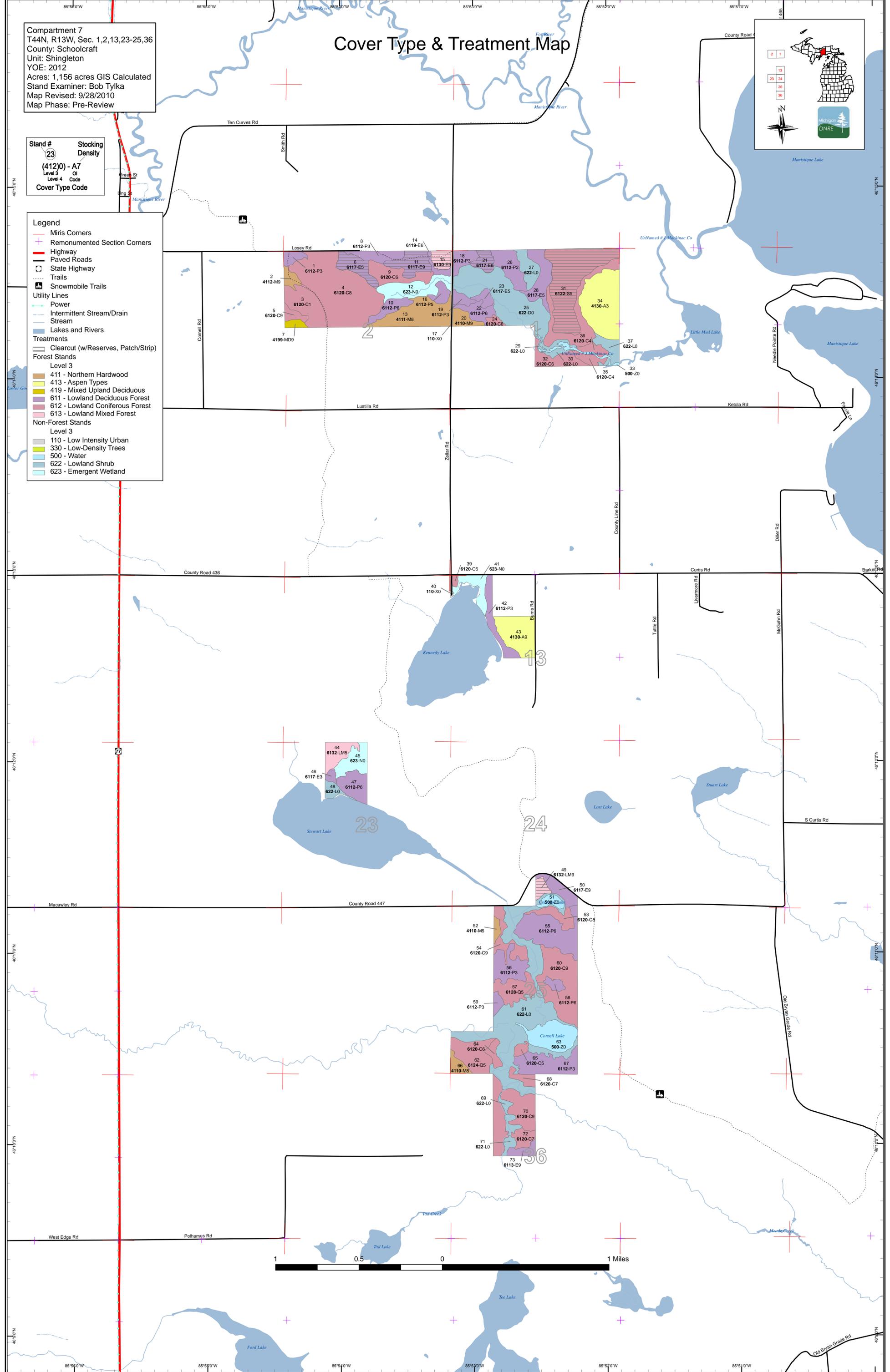
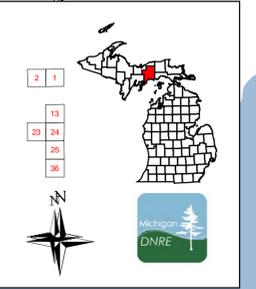
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment 7
 T44N, R13W, Sec. 1,2,13,23-25,36
 County: Schoolcraft
 Unit: Shingleton
 YOY: 2012
 Acres: 1,156 acres GIS Calculated
 Stand Examiner: Bob Tylka
 Map Revised: 9/28/2010
 Map Phase: Pre-Review

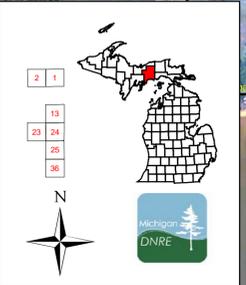
Stand # (412)0 - A7
 Level 3
 Level 4
 Cover Type Code

- Legend**
- Miris Corners
 - Remounted Section Corners
 - Highway
 - Paved Roads
 - State Highway
 - Trails
 - Snowmobile Trails
 - Utility Lines
 - Power
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Treatments
 - Clearcut (w/Reserves, Patch/Strip)
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - Non-Forest Stands
 - Level 3
 - 110 - Low Intensity Urban
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



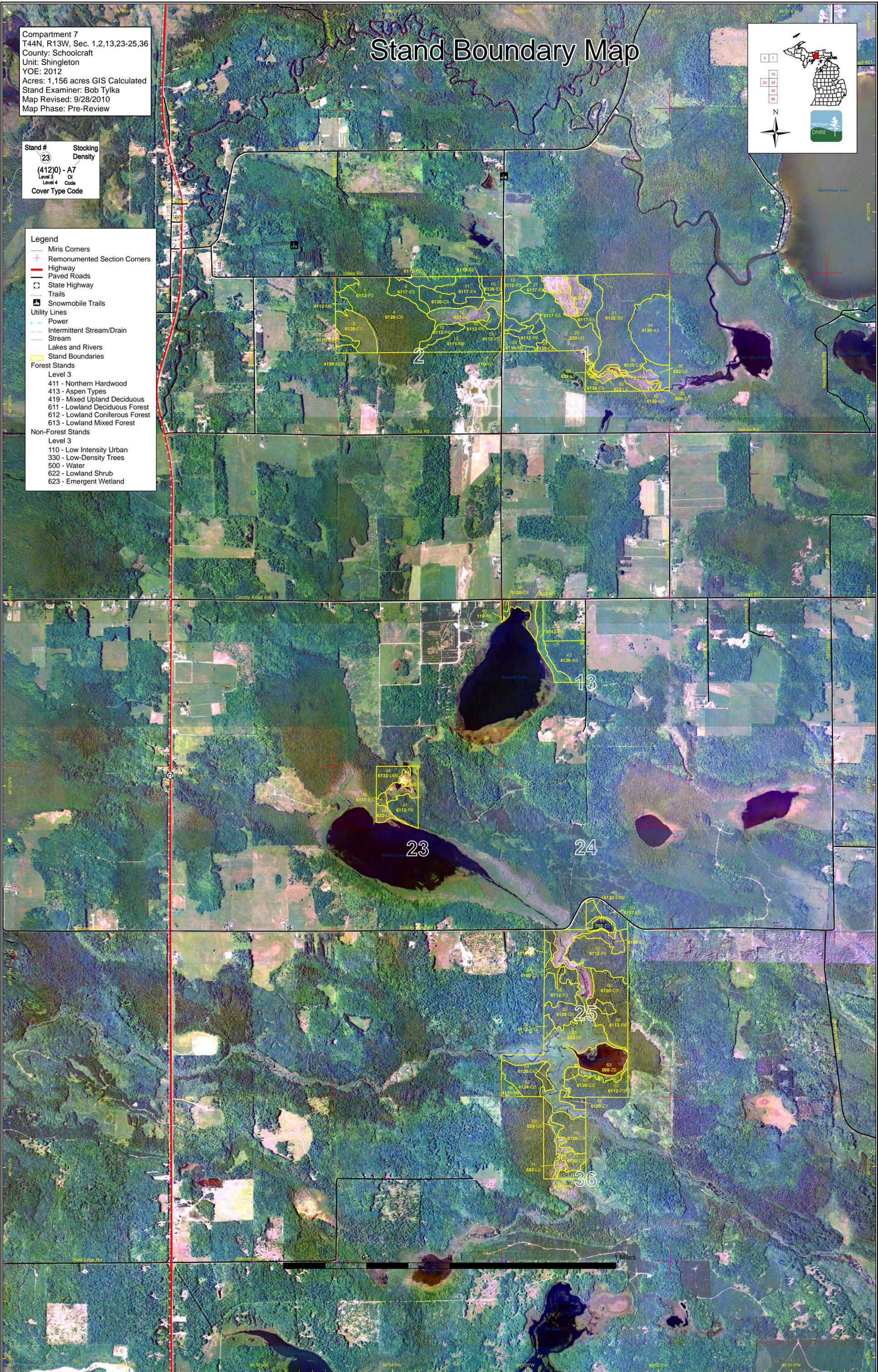
Stand Boundary Map

Compartment 7
 T44N, R13W, Sec. 1,2,13,23-25,36
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2012
 Acres: 1,156 acres GIS Calculated
 Stand Examiner: Bob Tylka
 Map Revised: 9/28/2010
 Map Phase: Pre-Review



Stand # (23) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

- Legend**
- Miris Corners
 - Remonumented Section Corners
 - Highway
 - Paved Roads
 - State Highway
 - Trails
 - Snowmobile Trails
 - Utility Lines
 - Power
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stand Boundaries
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - Non-Forest Stands
 - Level 3
 - 110 - Low Intensity Urban
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Dedicated & Proposed Special Conservation Area Map

Compartment 7
 T44N, R13W, Sec. 1,2,13,23-25,36
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2012
 Acres: 1,156 acres GIS Calculated
 Stand Examiner: Bob Tylka
 Map Revised: 9/28/2010
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - ⊕ Remonumented Section Corners
 - ⊕ Dedicated Special Conservation Areas
 - ⊕ Boat Access Sites
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Deer Wintering Areas
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 110 - Low Intensity Urban
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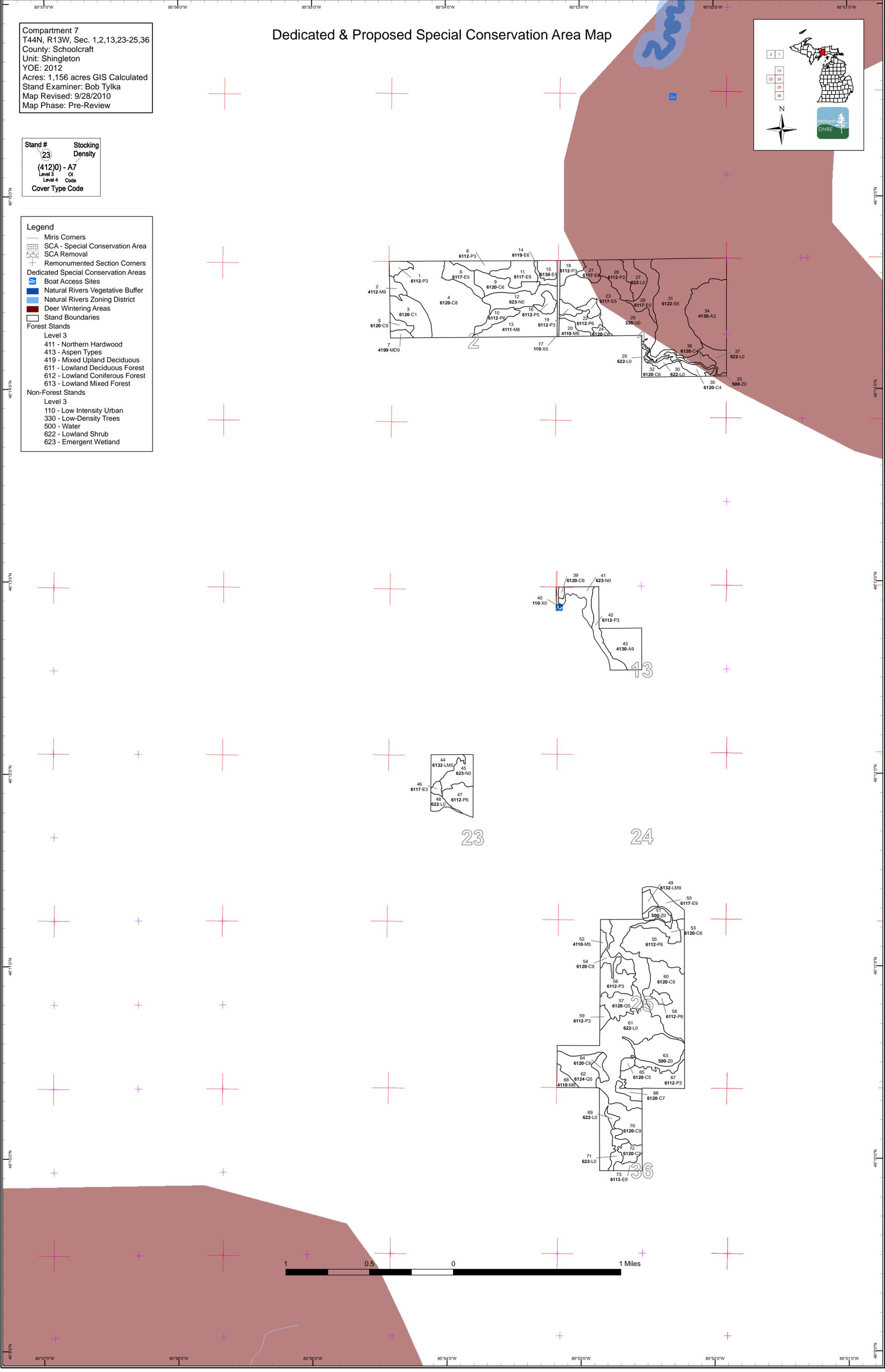
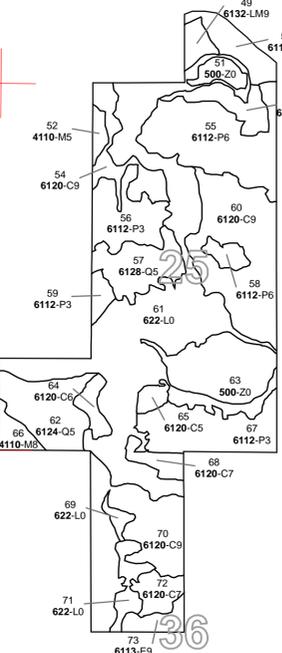
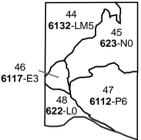
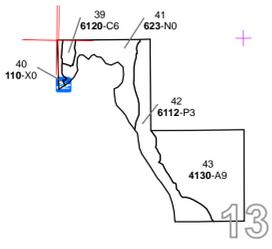
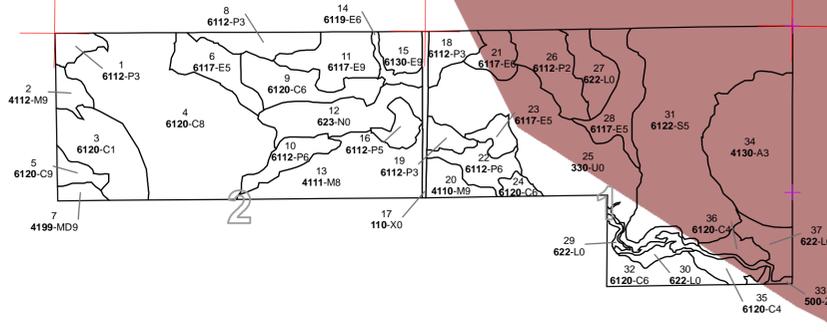
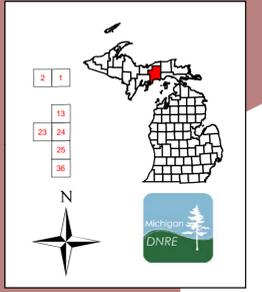


Table 1 – Total Acres by Cover Type and Age Class

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	52	0	30	0	0	0	0	0	0	0	0	0	0	82
Cedar	0	0	0	0	0	0	26	0	29	182	1	50	0	24	0	313
Lowland Aspen/Balsam Poplar	0	18	69	101	16	0	0	0	0	0	0	0	0	0	0	204
Lowland Conifers	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	43
Lowland Deciduous	0	0	0	3	0	12	0	0	70	0	0	0	0	0	6	90
Lowland Mixed Forest	0	0	0	0	0	0	0	0	8	19	0	0	0	0	0	27
Lowland Shrub	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	100
Marsh	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60
Treed Bog	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Total	329	18	121	103	46	12	26	0	249	204	1	50	0	24	66	1251



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit
Year of Entry 2012

Compartment 007
Total Compartment Acres: 1251

Acres by Treatment Type

Commercial Harvest - 124	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 Deciduous	41	0	0	0	0	0	0	41
Lowland Mixed Forest	13	0	0	0	0	0	0	13
Lowland Spruce/Fir	70	0	0	0	0	0	0	70
Total	124	0	0	0	0	0	0	124



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
6 41007006-Cut	14.8	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	71	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Treatment - CC w/reserves. Retain the cedar and any hemlock & white pine encountered. Management objective is lowland aspen/poplar/conifer mix. No chipping allowed in this compartment.								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u> TSI to encourage expansion of aspen/poplar clones by removing residual hardwoods after the stand is harvested, but retain submerchantable conifers. Acceptable regen includes all species currently on site.								
11 41007011-Cut	17.6	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	71	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Treatment - CC w/reserves. Retain the cedar and any hemlock & white pine encountered. Management objective is aspen/poplar/conifer mix. No chipping allowed in this compartment.								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u> TSI to remove submerchantable hardwood, but retain submerchantable conifers.								
15 41007015-Cut	7.9	6130 - Fir, Aspen, Maple	High Density Log	71	Harvest	Clearcut	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Treatment - Clearcut. Retain any hemlock, cedar & white pine encountered. Management objective is aspen/conifer mix. No chipping allowed in this compartment.								
<u>Specs:</u>								
<u>Other Comments:</u> Little merchantable wood besides aspen & fir. Acceptable regen includes aspen and all conifer species.								
<u>Next Steps:</u>								
21 41007021-Cut	8.2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	72	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Treatment - CC w/reserves. Retain the cedar and any hemlock & white pine encountered. Management objective is mixed lowland forest. No chipping allowed in this compartment.								
<u>Specs:</u>								
<u>Other Comments:</u> Paper birch is a major component but it is breaking up/blowing down.								
<u>Next Steps:</u>								
31 41007031-Cut	70.4	6122 - Black Spruce	Medium Density Pole	72	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Treatment - CC w/reserves. Retain cedar, and any hemlock & white pine encountered. Management objective is black spruce. No chipping allowed in this compartment.								
<u>Specs:</u>								
<u>Other Comments:</u>								
<u>Next Steps:</u> All lowland conifers as well as aspen & birch are acceptable regeneration.								



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49 41007049-Cut	5.0	6132 - Mixed Lowland Forest with Cedar	High Density Log	89	Harvest	Clearcut with Reserves	Mixed Lowland Forest with Cedar	Cmpt. Review Proposal

Prescription: Treatment - CC w/reserves. Retain all hemlock. Management objective is mixed lowland forest. No chipping allowed in this compartment.
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
 Acreage Proposed: 123.9**



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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



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>								
Total Treatment Acreage Proposed:		45.1						

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 007
Year of Entry: 2012

Data updated before 2:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6112 - Lowland Aspen	High Density Sapling	5.5	14	1-50	Transitional site between upland & lowland habitat.
2	4112 - Maple, Beech, Cherry Association	High Density Log	5.4	Uneven Age	81-110	Rolling terrain featuring unevenaged hardwoods on a transitional site between upland & lowland habitat.
3	6120 - Lowland Cedar	Low Density Sapling	25.7	52	1-50	
4	6120 - Lowland Cedar	Medium Density Log	95.1	86	81-110	
5	6120 - Lowland Cedar	High Density Log	5.0	80	141-170	
6	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	14.8	71	51-80	Cut along with the nearby aspen stands - aspen/balsam poplar are breaking up.
7	4199 - Other Mixed Upland Deciduous	High Density Log	3.5	80	81-110	
8	6112 - Lowland Aspen	High Density Sapling	11.1	14	1-50	
9	6120 - Lowland Cedar	High Density Pole	18.6	86	171-200	
10	6112 - Lowland Aspen	High Density Pole	10.0	34	51-80	
11	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	17.6	71	111-140	Large, mature aspen - cut now.
13	4111 - S.Maple, Hard Mast Association	Medium Density Log	37.5	Uneven Age	81-110	Unevenaged hardwoods - select cut last entry. Scattered yellow birch, black cherry and white ash found in this stand.
14	6119 - Mixed Lowland Deciduous Forest	High Density Pole	3.7	71	51-80	Very wet swale - lowland hardwoods + aspen/fir.
15	6130 - Fir, Aspen, Maple	High Density Log	7.9	71	111-140	Large, mature aspen & balsam fir - cut now.
16	6112 - Lowland Aspen	Medium Density Pole	6.4	34	51-80	Crown closure varies throughout this stand.
18	6112 - Lowland Aspen	High Density Sapling	8.9	14		young aspen
19	6112 - Lowland Aspen	High Density Sapling	4.9	14	1-50	young aspen w/a few residual elm, fir & spruce poles



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4110 - Sugar Maple Association	High Density Log	8.1	Uneven Age	81-110	Unevenaged hardwoods - sugar maple is dominant. Greater species diversity along the stand's edges where it borders the lowlands.
21	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	8.2	72	81-110	Slightly rolling terrain, but most of the area is very wet - winter ops only.
22	6112 - Lowland Aspen	High Density Pole	11.0	22	1-50	Young aspen on rolling terrain; more lowland than upland. Trees are just reaching merchantable size.
23	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	5.4	71	1-50	Evidence suggests that this stand is succeeding from a lowland poplar stand as the balsam poplar drops out.
24	6120 - Lowland Cedar	High Density Pole	3.2	71	111-140	Good wildlife cover
26	6112 - Lowland Aspen	Medium Density	18.3	5		
28	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	19.9	72	1-50	Stand now displays unevenaged characteristics as the mid-successional species (spruce-fir-red maple) advance to upper-crown positions. The age shown here approximates that of the oldest trees (generally the paper birch) in the stand, and matches the adjacent spruce stand. Site indices vary from place to place within the stand, but are generally in the low-to-medium range for commercial timber management.
31	6122 - Black Spruce	Medium Density Pole	99.8	72	81-110	Some variation in age & site indices - generally 3-4 stick spruce.
32	6120 - Lowland Cedar	High Density Pole	14.5	75	200+	
34	4130 - Aspen	High Density Sapling	52.3	13		
35	6120 - Lowland Cedar	Low Density Pole	6.0	75	1-50	Back-flooded cedar - the few still alive are badly stressed. Scattered black ash and paper birch are almost all dead.
36	6120 - Lowland Cedar	Low Density Pole	5.6	75	1-50	Back-flooded cedar - the few that are still alive are badly stressed. Paper birch & black ash were scattered components of this stand, but virtually all of the deciduous trees in the upper canopy are dead.
39	6120 - Lowland Cedar	High Density Pole	1.5	92	141-170	Good wildlife cover near Kennedy Lake. Stand includes a small pocket of upland hardwoods near the boat launch.
42	6112 - Lowland Aspen	High Density Sapling	14.4	14		Cut in 1996.
43	4130 - Aspen	High Density Log	30.0	38	141-170	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	13.7	89	1-50	This stand is beginning to exhibit unevenaged characteristics as the first cohorts of spruce/ fir/balsam poplar/paper birch are rapidly dropping out. Site indices appear to vary throughout but generally seem to be in the low-to-medium ranges. Natural disturbances including blowdown, breakup & flooding are fairly regular occurrences here; this plus the semi-open nature of the wetter areas results in extremely variable crown closure. The age given here is from previous inventory records. In reality a fair degree of age-class diversity has developed.
46	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	2.6	24		Age is estimated from from cutting records. The site is extremely wet, and all trees are very slow-growing. Scattered merchantable trees are present, but generally in poor shape.
47	6112 - Lowland Aspen	High Density Pole	16.5	21	81-110	Cut in 1989 and has already reached merchantable size. This stand occupies a transitional site that includes a mix of both upland & lowland habitat characteristics. It is fully-stocked with quaking aspen & balsam poplar; the dense understory includes a wide variety of tree species. The larger hardwood poles were probably advanced regeneration from the previous stand.
49	6132 - Mixed Lowland Forest with Cedar	High Density Log	5.0	89	51-80	Already prepped for sale - has been sold & returned.
50	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	11.8	44	81-110	Aspen on a transitional (upland to lowland) site - cut next entry
52	4110 - Sugar Maple Association	Medium Density Pole	3.1	Uneven Age	81-110	
53	6120 - Lowland Cedar	Medium Density Log	10.5	122	51-80	Prescribed last entry - sold but returned uncut.
54	6120 - Lowland Cedar	High Density Log	14.2	89	141-170	
55	6112 - Lowland Aspen	High Density Pole	41.0	24	51-80	
56	6112 - Lowland Aspen	High Density Sapling	19.8	18	1-50	Young aspen - a few stems are reaching merch. size. Stand density is somewhat variable.
57	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	18.8	75	81-110	This stand gets wetter as you approach the creek bottom to the east & south. Site indices vary throughout but are generally medium to low; some age variability is also evident.
58	6112 - Lowland Aspen	High Density Pole	4.3	24		Young aspen cut in 1986.
59	6112 - Lowland Aspen	High Density Sapling	3.9	18	1-50	A few trees are reaching merchantable size.
60	6120 - Lowland Cedar	High Density Log	48.7	89	141-170	Site indices vary but are generally moderate to good. The density & composition of the understory also change quite a bit from site to site within the stand area.

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Shingleton Mgt. Unit

5 – Forested Stands

Data updated before 2:00 PM

Compartment: 007
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	6124 - Lowland Spruce-Fir	Medium Density Pole	24.0	77	81-110	Site conditions change quickly from site to site within this stand, resulting in variable composition, density and site indices. Aspen & paper birch are breaking up.
64	6120 - Lowland Cedar	High Density Pole	5.5	101	111-140	Slow-growing cedar etc. on boggy ground - operability is questionable along the southern & eastern edges of this stand.
65	6120 - Lowland Cedar	Medium Density Pole	3.5	101	111-140	Cedar on wet, boggy ground - operability is questionable. Low to moderate site index. A few scattered balsam poplar & birch are also present. Some evidence of age-class diversity is developing.
66	4110 - Sugar Maple Association	Medium Density Log	6.0	Uneven Age	81-110	Unevenaged hardwoods - the ages given are rough averages that match the adjacent timber on state land.
67	6112 - Lowland Aspen	High Density Sapling	28.0	20		Young aspen - a few trees are reaching merchantable size.
68	6120 - Lowland Cedar	Low Density Log	6.0	120	51-80	Slow-growing cedar; site index is generally medium to low. Stand density varies significantly.
70	6120 - Lowland Cedar	High Density Log	41.1	101	111-140	Unevenaged characteristics are developing as natural disturbances create structural diversity within this stand of relatively slow-growing cedar.
72	6120 - Lowland Cedar	Low Density Log	7.9	120	51-80	Semi-open stand of slow-growing cedar on rolling ground. The lower sites are frequently flooded and support only wetland forbs, grasses and brush spp., while the slightly - elevated spots support trees and tag alder. Site index for cedar varies but is generally low.
73	6113 - Lowland Maple	High Density Log	6.2	Uneven Age	51-80	Unevenaged red maple with a mix of other hardwoods & conifers.



Stand	Cover Type	Acres	Gen Cmts:
12	6233 - Wet Meadow	23.9	Cattails & grasses in the open areas; lowland shrubs & dead cedar, etc. in many places. Water levels appear to vary significantly throughout the year. Scattered (low density) submerchantable cedar, fir, birch & ash are also present.
17	11 - Low Intensity Urban	4.1	
25	6224 - Treed Bog	72.8	<p>Wet site featuring scattered submerchantable conifers, paper birch, lowland brush spp. and wetland grasses/shrubs throughout the area. Site indices appear to be too low for commercial timber management, though a few trees have reached merch. size.</p> <p>Mud Creek flows through this stand; evidence of seasonal flooding is present.</p>
27	6220 - Alder/willow	12.3	Regeneration of commercial tree spp. is sparse; the area is now dominated by tag alder/willow.
29	6220 - Alder/willow	1.0	
30	6220 - Alder/willow	3.0	
33	50 - Water	5.7	
37	6220 - Alder/willow	9.1	
38	6220 - Alder/willow	1.0	
40	11 - Low Intensity Urban	1.1	
41	6230 - Cattail	11.8	
45	6233 - Wet Meadow	16.1	This semi-open wetland is a mix of tag alder/willow, cattails & other emergent spp., wet grassy meadow and low-density trees that are generally submerchantable. A few pockets of bigger trees are also present on slightly elevated knobs.
48	6223 - Inundated Shrub Swamp	5.6	Very wet area bordering Stewart Lake. Scattered tag alder & willow plus low shrubs, cattails & grasses/sedges - generally open marshland.
51	50 - Water	5.4	
61	6220 - Alder/willow	117.9	Heavy tag alder/willow on very wet ground surrounding Crescent Lake. Ground cover includes grass/sedges and cattails; a few submerchantable fir & cedar are also present along the fringes of the adjacent timber stands.



Stand	Cover Type	Acres	Gen Cmts:
63	50 - Water	27.7	Cornell Lake
69	6229 - Mixed lowland shrub	2.5	
71	6220 - Alder/willow	7.8	



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	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.