



**Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #19 Entry Year: 2012
Compartment Acreage: 2358 County: Schoolcraft**

Revision Date: 10/26/2010

Stand Examiner: Rick Hill

Legal Description: 45N 16W Sections: 26 34 35

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Seney Manistique swamp

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

Soil and Topography: Two LTA's are found in the compartment. The Channel Fen South makes up the majority of the compartment while the Shingleton Fen is found in only a small part of the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Land within the compartment boundaries is all State land except for 160 acres of private ownership in section 34. to the east of the compartment lies the Seney wildlife refuge, in all other directions are state land with scattered private in holdings.

Unique, Natural Features: The following rare rushes and grass are known from section 33: **Vasey's rush** (*Juncus vaseyi*, state threatened), **slender spike-rush** (*Eleocharis nitida*, state endangered) and **Canada rice-grass** (*Oryzopsis canadensis*, state threatened). In addition, in section 35 there is a population of the state threatened plant **sweet coltsfoot** (*Petasites sagittatus*). These plants are often associated with openings within seasonally wet sand/jack pine areas (e.g. on Saugatuck sands). As long as operators avoid marsh areas throughout the compartment, it is unlikely that prescribed management will adversely impact these species. If operating vehicles must pass through marshy areas, harvesting during the winter would also help mitigate any harm to these populations of rare plants. There is a 1995 record of **Northern blue butterfly** (*Lycaeides idas nabokovi*, state threatened) in section 26. Any openings in dry (or- less commonly- seasonally wet) jack pine areas, and shallow seasonally-inundated grasslands could support this butterfly and its host plant the state threatened **dwarf bilberry** (*Vaccinium cespitosum*). Instructing operators to avoid traveling over large openings in jack pine stands and limiting harvest operations to winter would help avoid potential impacts on the Northern Blue and dwarf bilberry. There is 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. Please also see the **Species Abstract** section of this document in which we have provided the web access for more detailed information on these rare raptors. [Wood turtle](#) (*Clemmys insculpta*, state special concern) could occur in and along Hickey Creek, West Branch Manistique River, Marsh Creek, and Ducey Creek. The prescribed treatments in this compartment are unlikely to adversely impact this species if best management practices are followed along these riparian corridors.

Archeological, Historical, and Cultural Features: There is an old logging camp in located in the compartment.

Special Management Designations or Considerations: 640 acres were acquired after the 1992 review from the Seney Wildlife Refuge. This is the second time it has been inventoried.

Watershed and Fisheries Considerations: Fisheries Values are good in this compartment. Both the

Creighton and the West Branch Manistique Rivers are classed Second Quality Warm Water, but the whole Hickey Creek system to the west is Second Quality Cold Water, supporting native brook trout. Fisheries does no active management in any of these waters. Even so, protection from sand bedload is still a high priority.

Wildlife Habitat Considerations: This compartment is located in the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46° F. Annual snowfall in this area averages 120 inches. General Land Office surveyor notes show the historic upland forest cover to be a hardwood/conifer mix including hemlock, white pine, red pine, maple and beech. The lowlands also contained a mixture of conifer and deciduous species including cedar, alder, black ash, tamarack, and black spruce. Natural disturbances in this area probably included fire, windthrow, and beaver ponding. Current vegetative cover within the compartment includes mature white pine, upland and lowland hardwoods, red pine, and spruce. Immature (regenerating) stands include balsam poplar, jack pine, red pine and aspen. The eastern portion of the compartment has recently become part of the State forest system. Prior to that it belonged to the Seney National Wildlife Refuge. Apparently the refuge had an openland management objective for those lands. As a result the timber was harvested in a manner that resulted in some semi-open aspen stands. This objective will not be carried through under State ownership. Rather the entire compartment will be managed for forest cover. The mature hardwood and pine stands will be managed to encourage structural and species diversity. Large diameter pulp quality trees will be left. Development of a super-canopy will also result from the management of these stands. There are a number of plant species of concern in the vicinity of this compartment. Wildlife species of interest known to utilize this compartment include moose, gray wolf, fisher, marten, sandhill crane, and saw-whet owl.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. There is minor local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Limestone subcrops below the glacial drift. The Trenton is used for stone/dolomite. The nearest gravel pit is 5 miles to the north. There is limited gravel potential on State lands. Approximately 20% of the State land is surface only.

Vehicle Access: Access to this compartment varies depending on location all areas east of the west branch of the Manistique River are easily accessible with a series of two tracks off of the Creighton truck trail. Areas west of the west branch of Manistique river are harder to get to with a long trek up the section 19 creek road needed to access most of the compartment. Due to a lack of easements the area to the west of section 19 creek can only be reached on foot

Survey Needs: none at this time

Recreational Facilities and Opportunities: Hunting, fishing and trapping are the most common recreation in this area.

Fire Protection: This compartment has a mix of upland and lowland fuels with potential for large fire growth. The Seney fire burned it this general area in the 1070's. Much of this compartment has high risk fuels in areas hard to access.

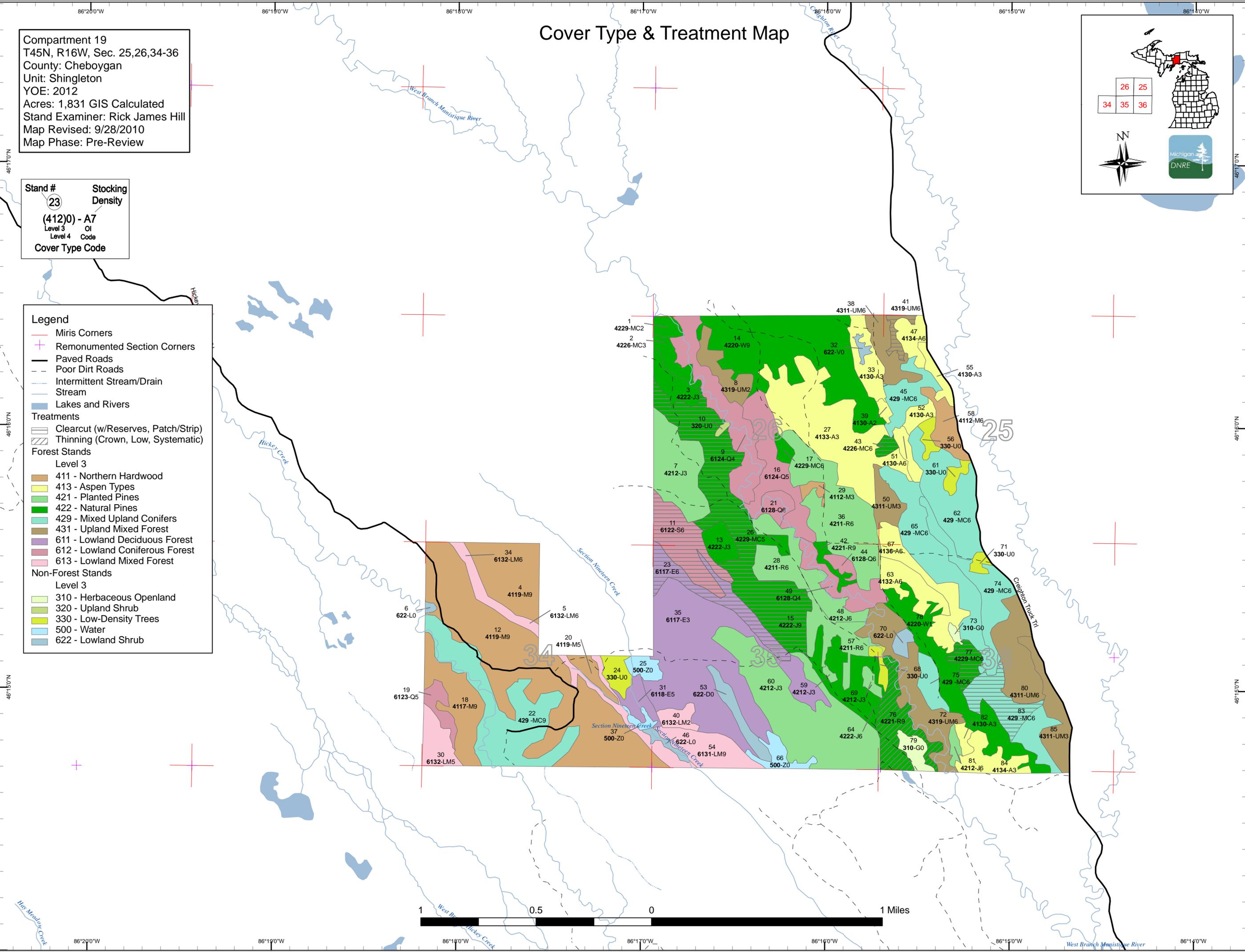
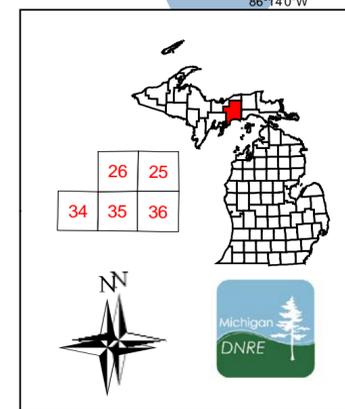
Additional Compartment Information: None

Cover Type & Treatment Map

Compartment 19
 T45N, R16W, Sec. 25,26,34-36
 County: Cheboygan
 Unit: Shingleton
 YOE: 2012
 Acres: 1,831 GIS Calculated
 Stand Examiner: Rick James Hill
 Map Revised: 9/28/2010
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - ⊕ Remonumented Section Corners
 - Paved Roads
 - - - Poor Dirt Roads
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- ▨ Clearcut (w/Reserves, Patch/Strip)
 - ▨ Thinning (Crown, Low, Systematic)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub



Map coordinates: 86°20'0"W to 86°14'0"W (Longitude) and 46°17'0"N to 46°13'0"N (Latitude).

Dedicated & Proposed Special Conservation Area Map

Compartment 19
 T45N, R16W, Sec. 25,26,34-36
 County: Cheboygan
 Unit: Shingleton
 YOE: 2012
 Acres: 1,831 GIS Calculated
 Stand Examiner: Rick James Hill
 Map Revised: 9/28/2010
 Map Phase: Pre-Review

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
 - Ecological Reference Areas
 - Stand Boundaries
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
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 - Non-Forest Stands
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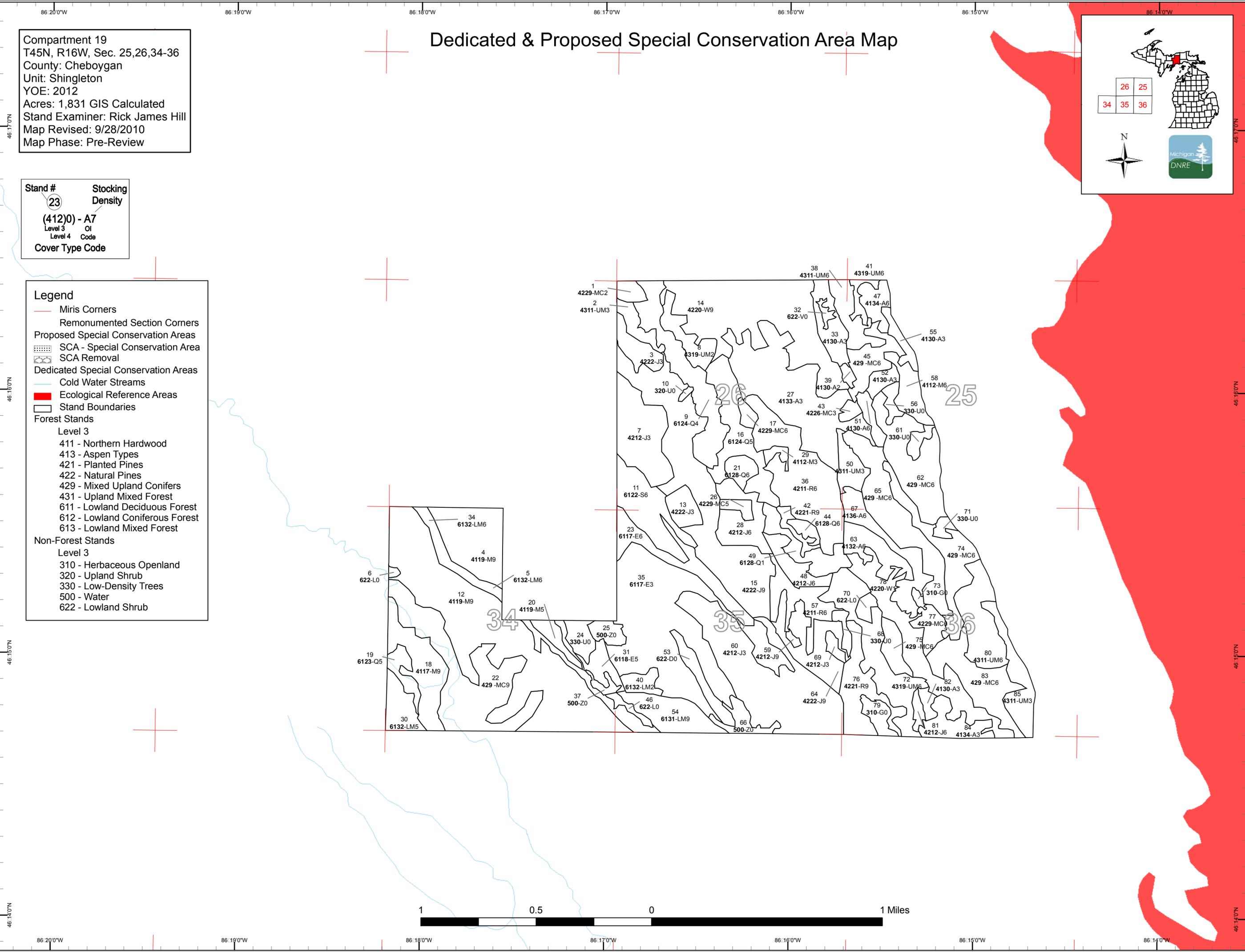
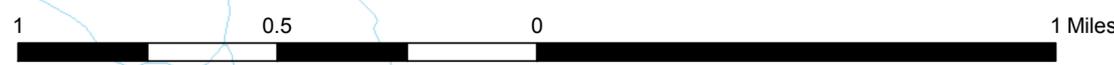
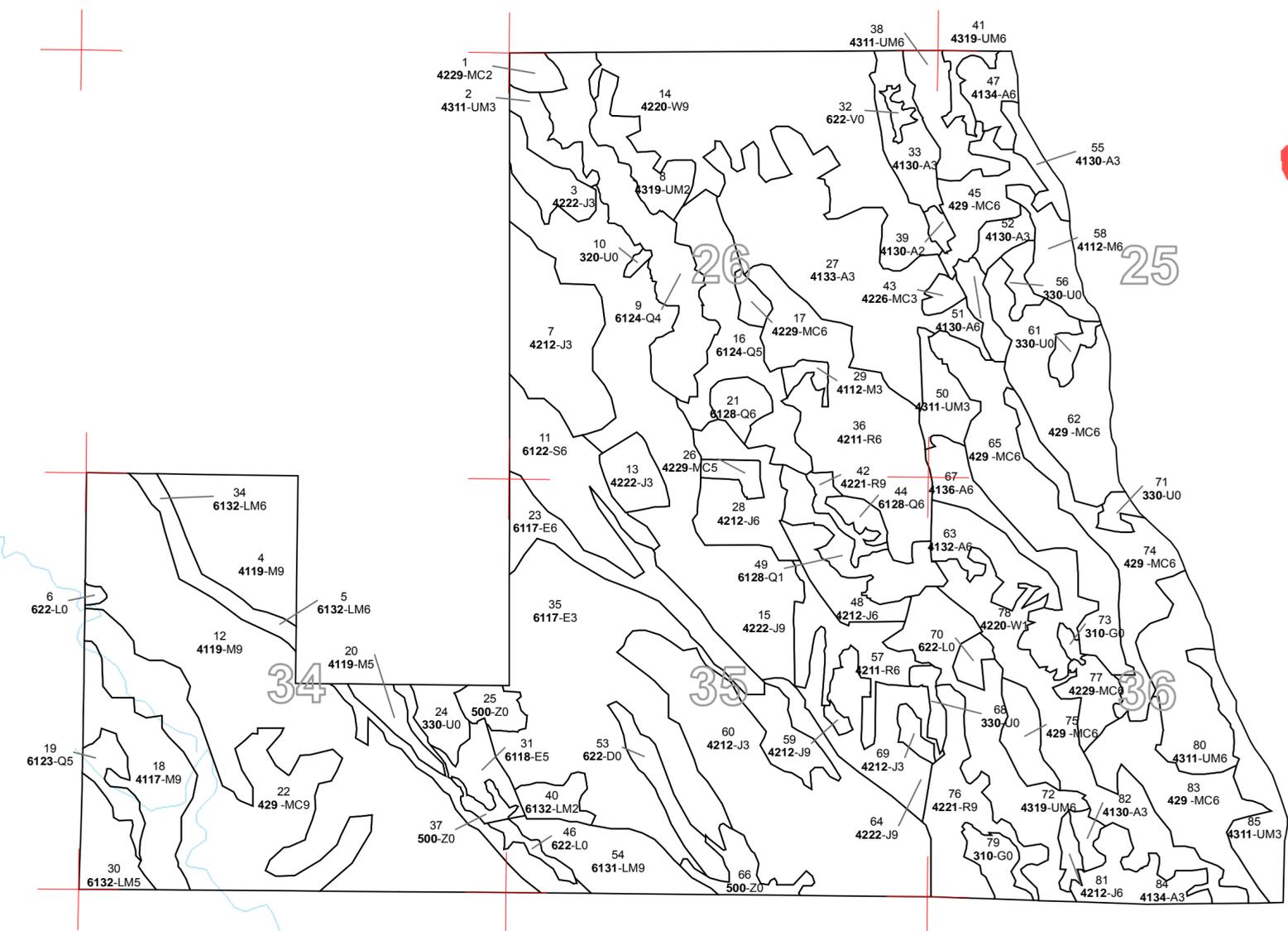
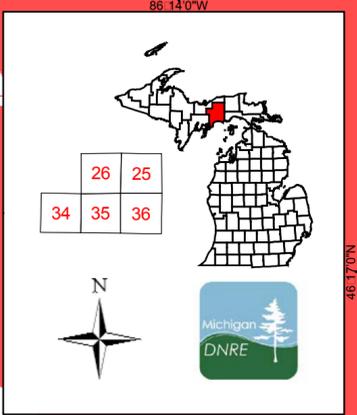


Table 1 – Total Acres by Cover Type and Age Class

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 +		Uneven Age
Aspen	0	15	100	99	8	0	0	0	0	0	0	0	0	0	13	235
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Jack Pine	0	0	197	37	16	127	0	0	0	0	0	0	0	0	0	377
Low-Density Trees	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Conifers	0	0	0	5	52	0	0	22	11	0	0	0	0	0	53	144
Lowland Deciduous	0	0	151	0	0	12	32	0	0	0	0	0	0	0	0	194
Lowland Mixed Forest	0	0	9	0	0	0	0	15	66	0	0	0	0	0	0	90
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	41
Natural Mixed Pines	0	0	0	0	0	20	0	12	0	5	0	0	0	0	6	43
Northern Hardwood	0	4	0	0	0	0	238	0	17	48	0	0	0	0	0	308
Red Pine	0	0	0	0	0	132	0	0	35	0	6	0	0	0	0	173
Treed Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Conifers	0	0	0	22	57	43	65	0	0	89	0	0	0	0	38	314
Upland Mixed Forest	0	19	0	58	0	0	0	5	53	0	0	0	0	0	40	175
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	58	0	0	0	0	0	0	121	0	0	0	0	0	0	179
Total	93	96	456	220	134	333	335	54	302	182	6	0	0	0	151	2363



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit
Year of Entry 2012

Compartment 019
Total Compartment Acres: 2363

Acres by Treatment Type

Commercial Harvest - 239	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 44	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Jack Pine	123	0	0	0	0	0		123
Lowland Deciduous	32	0	0	0	0	0		32
Lowland Spruce/Fir	41	0	0	0	0	0		41
Natural Mixed Pines	21	0	0	0	0	0		21
Red Pine	0	0	0	0	35	0		35
Upland Conifers	27	0	0	0	0	0		27
Upland Mixed Forest	5	0	0	0	0	0		5
Total	249	0	0	0	35	0		283



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
11	41019011-Cut	40.6	6122 - Black Spruce	High Density Pole	81	Harvest	Clearcut with Reserves	Lowland Spruce-Fir	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut This stand, leave all red and white pine as well as hemlock, and cedar. Advanced black spruce regeneration should also be protected</p> <p><u>Specs:</u> use the 4 inch clearcut spec to accomplish this.</p> <p><u>Other Comments:</u> This sale should be held and harvested with spruce in compartment 16. This will provide more volume for a sale in the area. Access to this area is fairly difficult so bigger sales would most likely be a better option in this area. Access to this area is off the smith lake road to section 19 creek road.</p> <p><u>Next Steps:</u> Acceptable regeneration is a mix Black Spruce, Jack Pine, Aspen, Balsam Fir, Tamarack and Red Maple. If regeneration fails plant jack pine in higher areas of the stand.</p>									
23	41019023-Cut	32.0	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	54	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut this stand, Leave all hemlock and white pine also leave all cedar.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> This sale should be held and harvested with spruce in compartment 16. This will provide more volume for a sale in the area. Access to this area is fairly difficult so bigger sales would most likely be a better option in this area. Access to this area is off the smith lake road to section 19 creek road.</p> <p><u>Next Steps:</u> Acceptable regeneration is a mix Black Spruce, Jack Pine, Aspen, Balsam Fir, Tamarack and Red Maple.</p>									
41	41019041-Cut	5.4	4319 - Mixed Upland Forest	High Density Pole	63	Harvest	Clearcut with Reserves	Aspen, Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut this stand, do not cut red pine also leave white pine and hemlock and any oak if present.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Group with stand 36, 41, 43,</p> <p><u>Next Steps:</u> Acceptable regeneration is a mix Black Spruce, Jack Pine, Aspen, Balsam Fir and Red Maple. If regeneration fails plant jack pine.</p>									
43	41019043-Cut	4.0	42260 - Natural Pine, Mixed Deciduous	High Density Sapling	45	Harvest	Clearcut with Reserves	Aspen, Jack Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Clearcut this stand mark some of the red pine for removal. Reserve the rest of the white pine, also leave White Pine. Also do not cut any Oak or Hemlock</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Group with other stands east of river to make sale viable for harvest.</p> <p><u>Next Steps:</u> Acceptable regeneration includes Jack Pine, Aspen, Red Pine, White Pine and Red Maple. If regeneration fails plant Jack Pine.</p>									
76	41019076-Cut	34.7	42210 - Natural Red Pine	High Density Log	70	Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<p><u>Prescription:</u> Thin red pine to 100 Square Feet cut all jack pine and hardwood, Leave all Oak and Hemlock. Create gaps to allow jack pine regen in areas where jack pine is dominant.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Group with stand 15 and 76 to improve volumes and improve sale viability</p> <p><u>Next Steps:</u></p>									



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
77 41019077-Cut	11.8	42290 - Natural Mixed Pine	High Density Pole	60	Harvest	Clearcut with Reserves	Aspen, Mixed Conifer	Cmpt. Review Proposal

Prescription: Clearcut this stand, Scarify post harvest Reserve tree mark 2 to 3 large spruce and white pine an acre also mark a few jack pine an acre as seed trees. This will also satisfy retention guidelines.

Other Comments: Group this stand with other stands east of the river to make a larger sale.

Next Steps: Scarify post harvest to encourage jack pine regen. If regen fails then plant jack pine. Acceptable regeneration consists of white pine, red pine, spruce, balsam fir, aspen and jack pine

83 41019083-Cut	26.9	429 - Mixed Upland Conifers	High Density Pole	48	Harvest	Clearcut with Reserves	Aspen, Jack Pine	Cmpt. Review Proposal
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Prescription: Clearcut this stand mark some of the red pine and white pine for removal. Reserve the rest of the white pine, also leave White Pine.

Other Comments: Group with other stands east of river to make sale viable for harvest. This stand has a mix of ages only cut a portion look for areas of oldest trees place cuts

Next Steps: Acceptable regeneration includes Jack Pine, Aspen, Red Pine, White Pine and Red Maple. If regeneration fails plant Jack Pine.

15 41019083-Cut1	122.8	42220 - Natural Jack Pine	High Density Log	49	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
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Prescription: Clearcut this stand, do not cut red pine also leave white pine and hemlock and any oak if present. Mark a jack pine every acre as leave trees to provide a seed source and to meet retention guidelines.

Other Comments: Access is from the Smith Lake Rd to the sec. 19 creek road. Cut with stand 57 as well as 76.

Next Steps: Acceptable regeneration is a mix Black Spruce, Jack Pine, Aspen, Balsam Fir, Tamarack, and Red Maple. If regeneration fails plant jack pine in the stand.

**Total Treatment
Acreage Proposed: 278.2**



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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
<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>								
Total Treatment Acreage Proposed:		45.1						

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Shingleton Mgt. Unit

5 – Forested Stands

Data updated before 2:00 PM

Compartment: 019

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42290 - Natural Mixed Pine	Medium Density	6.5	Uneven Age		This stand is a mix of species filling in an open area.
2	42260 - Natural Pine, Mixed Deciduous	High Density Sapling	10.4	48		
3	42220 - Natural Jack Pine	High Density Sapling	14.4	11		
4	4119 - Mixed Northern Hardwoods	High Density Log	49.8	57	51-80	This stand cut in the winter of 2010 by Spencer FP In sale # 410330201. This stand was cut using a selection system. All spruce and balsam fir where cut and all hemlock was left in the sale.
5	6132 - Mixed Lowland Forest with Cedar	High Density Pole	14.8	67		Lowland drains separating the hardwood stands in this area.
7	42120 - Planted Jack Pine	High Density Sapling	48.5	11		
8	4319 - Mixed Upland Forest	Medium Density	18.5	5		
9	6124 - Lowland Spruce-Fir	Low Density Pole	52.3	30		This area is a mix of lowland shrub and trees surrounding the river.
11	6122 - Black Spruce	High Density Pole	40.6	81		
12	4119 - Mixed Northern Hardwoods	High Density Log	188.4	57	51-80	This stand cut in the winter of 2010 by Spencer FP In sale # 410330201. This stand was cut using a selection system. All spruce and balsam fir where cut and all hemlock was left in the sale.
13	42220 - Natural Jack Pine	High Density Sapling	12.6	11		
14	42200 - Natural White Pine	High Density Log	120.5	75	1-50	
15	42220 - Natural Jack Pine	High Density Log	122.8	49		
16	6124 - Lowland Spruce-Fir	Medium Density Pole	44.2	Uneven Age		Riparian area along the river. A lot of tag alder with a mix of tree species present in varying amounts.
17	42290 - Natural Mixed Pine	High Density Pole	4.5	80		
18	4117 - Mixed N. Hardwood - Pine	High Density Log	39.8	80		
19	6123 - Lowland Fir	Medium Density Pole	10.5	70		

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Shingleton Mgt. Unit

5 – Forested Stands

Data updated before 2:00 PM

Compartment: 019
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4119 - Mixed Northern Hardwoods	Medium Density Pole	8.4	82		This stand cut in the winter of 2010 by Spencer FP In sale # 410330201. This stand was cut using a selection system. All spruce and balsam fir was cut and all hemlock was left in the sale.
21	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	9.0	Uneven Age		
22	429 - Mixed Upland Conifers	High Density Log	88.6	82	51-80	This stand cut in the winter of 2010 by Spencer FP In sale # 410330201. This stand was cut using a selection system. All spruce and balsam fir was cut and all hemlock was left in the sale.
23	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	32.0	54		
26	42290 - Natural Mixed Pine	Medium Density Pole	5.3	47	1-50	
27	4133 - Aspen, Mixed Pine	High Density Sapling	100.0	12		Cut in 1998, this stand looks good.
28	42110 - Planted Red Pine	High Density Pole	28.0	47		
29	4112 - Maple, Beech, Cherry Association	High Density Sapling	3.8	6		
30	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	17.9	70		
31	6118 - Lowland Deciduous with Cedar	Medium Density Pole	11.6	45		
33	4130 - Aspen	High Density Sapling	19.7	25		
34	6132 - Mixed Lowland Forest with Cedar	High Density Pole	18.6	70		Lowland drains separating the hardwood stands in this area.
35	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	150.7	11		Cut in 1999 looks good.
36	42110 - Planted Red Pine	High Density Pole	78.1	45	141-170	
38	4311 - Pine, Aspen Mix	High Density Pole	19.0	25		
39	4130 - Aspen	Medium Density	2.8	3		

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 019
Year of Entry: 2012

Data updated before 2:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	6132 - Mixed Lowland Forest with Cedar	Medium Density	8.9	11		
41	4319 - Mixed Upland Forest	High Density Pole	5.4	63		
42	42210 - Natural Red Pine	High Density Log	6.3	93	171-200	
43	42260 - Natural Pine, Mixed Deciduous	High Density Pole	4.0	45		
44	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.3	25		
45	429 - Mixed Upland Conifers	High Density Pole	21.6	26		Mix of pine, spruce, aspen.
47	4134 - Aspen, Spruce/Fir	High Density Pole	12.8	Uneven Age		Uneven age aspen stand majority 32 years old cut in 20 years.
48	42120 - Planted Jack Pine	High Density Pole	16.1	39		
49	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	22.3	65		This is the riparian area for the river.
50	4311 - Pine, Aspen Mix	High Density Sapling	13.7	Uneven Age		
51	4130 - Aspen	High Density Pole	7.9	34		
52	4130 - Aspen	High Density Sapling	7.2	27		
54	6131 - Hemlock, White Pine, Maple, Birch	High Density Log	29.8	76	141-170	
55	4130 - Aspen	High Density Sapling	8.0	5		
57	42110 - Planted Red Pine	High Density Pole	26.1	47	141-170	
58	4112 - Maple, Beech, Cherry Association	High Density Pole	17.4	72	81-110	This stand was thinned last YOE.
59	42120 - Planted Jack Pine	High Density Sapling	1.6	11		
60	42120 - Planted Jack Pine	High Density Sapling	115.7	11		

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Shingleton Mgt. Unit

5 – Forested Stands

Data updated before 2:00 PM

Compartment: 019
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	429 - Mixed Upland Conifers	High Density Pole	53.2	50		This is a mixed age stand. If desired a portion of this stand could be harvested it could also be held for ten years to allow the aspen to fully mature.
63	4132 - Aspen, Jack Pine	High Density Pole	21.9	22		
64	42220 - Natural Jack Pine	High Density Pole	36.6	29		
65	429 - Mixed Upland Conifers	High Density Pole	57.4	36		
67	4136 - Aspen, Mixed Conifer	High Density Pole	29.9	24		
69	42120 - Planted Jack Pine	High Density Sapling	4.0	11		
72	4319 - Mixed Upland Forest	High Density Pole	52.8	76	81-110	
74	429 - Mixed Upland Conifers	High Density Pole	38.2	Uneven Age		This stand is a mix of species common to dry sites. This stand has a large variation in size and ages and density. This area should be cut next cycle to create a better even age stand.
75	429 - Mixed Upland Conifers	High Density Pole	12.2	50		
76	42210 - Natural Red Pine	High Density Log	34.7	70	141-170	
77	42290 - Natural Mixed Pine	High Density Pole	11.8	60		
78	42200 - Natural White Pine	Low Density Sapling	58.2	4		
80	4311 - Pine, Aspen Mix	High Density Pole	39.1	26		
81	42120 - Planted Jack Pine	High Density Pole	4.2	48		
82	4130 - Aspen	High Density Sapling	4.5	5		
83	429 - Mixed Upland Conifers	High Density Pole	42.7	48		
84	4134 - Aspen, Spruce/Fir	High Density Sapling	19.8	26		
85	4311 - Pine, Aspen Mix	High Density Sapling	26.0	Uneven Age		Aspen cut last year of entry coming back well.



Stand	Cover Type	Acres	Gen Cmts:
6	622 - Lowland Shrub	1.2	
10	320 - Upland Shrub	1.3	
24	3301 - Low Density Deciduous Tree	10.6	Clearcut in 2010
25	50 - Water	8.5	
32	6225 - Bog	2.6	
37	50 - Water	3.8	
46	622 - Lowland Shrub	4.2	
53	6224 - Treed Bog	13.6	
56	3303 - Mixed Low Density Trees	5.6	
61	3303 - Mixed Low Density Trees	5.5	
66	50 - Water	11.3	
68	330 - Low-Density Trees	4.9	
70	622 - Lowland Shrub	5.0	
71	3301 - Low Density Deciduous Tree	4.0	
73	310 - Herbaceous Openland	2.0	
79	310 - Herbaceous Openland	9.5	This area was planted in the 3 years.



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.