



Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #180 Entry Year: 2012
Compartment Acreage: 1798 County: Schoolcraft

Revision Date: 10/26/2012

Stand Examiner: Rick Hill

Legal Description: 47N 17W Sections: 22 27 34 35

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Cusino Complex

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

Soil and Topography: Flat to rolling terrain. Most of the compartment lies within the Munising Moraine LTA, with a portion of the compartment within the Cusino Swamp LTA.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment contains the forest Land group ownership as well as some individual private ownership. The main land use is general forest.

Unique, Natural Features: Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Star Creek. 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, mature aspen, mixed swamp conifer, and swamp hardwoods.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: Fisheries Values - Good. The Star Creek system, including the tributary within this compartment, are all Second Quality Cold Water, capable of supporting native brook trout.

Wildlife Habitat Considerations: This compartment lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. It experiences a growing season of approximately 130 days. Extreme low winter temperature is near -35 degrees F and the average annual snowfall is 180 inches. General Land Office survey notes indicate that this compartment was dominated by northern hardwood that consisted primarily of sugar maple, beech, yellow birch, and hemlock. Windthrow and beaver ponding appear to have been the main sources of natural disturbance in this general vicinity. Current vegetational composition within this compartment is very similar to that discussed in the surveyor's notes. Northern hardwoods dominate the upland forest. White cedar, red maple, ash, and black spruce occupy the lowlands. While deer currently do not spend the winter within this compartment, the proximity to deer concentrations dictates that management activities strongly consider deer requirements. Beyond deer, the wildlife habitat objectives in this compartment include maintaining the conifer component within the hardwood stands, providing supercanopy trees, den trees, and sources of mast in the form of black cherries and yellow birch catkins. To accomplish this, hemlock, pulp quality "log-sized" yellow birch and cherry should not be harvested during

timber sales. Additionally, attempts should be made to preserve a few large diameter (26" and greater) trees where possible. Wildlife species of interest utilizing this compartment include fisher, marten, moose, pileated woodpecker, barred owl, and broad-winged hawk. This compartment sets on the northern fringe of the petrel deer yard. While deer currently do not spend the winter within this compartment, the proximity to deer concentrations dictates that management activities strongly consider deer requirements. Beyond deer, the wildlife habitat objectives in this compartment include maintaining the conifer component within the hardwood stands, providing supercanopy trees, den trees, and sources of mast in the form of black cherries and yellow birch catkins. To accomplish this, hemlock, pulp quality "log-sized" yellow birch and cherry should not be harvested during timber sales. Additionally, attempts should be made to preserve a few large diameter (26" and greater) trees where possible. Wildlife species of interest utilizing this compartment include fisher, marten, moose, pileated woodpecker, barred owl, and broad-winged hawk.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of end moraine of fine-texture till and peat and muck to the south. There is over 120 feet of local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) subcrop is below the glacial drift. The PdC could be used for stone. The nearest gravel pit is 4 miles to the south. There appears to be limited gravel potential on State lands, depending on the size of the fine-textured glacial till.

Vehicle Access: The Petrel Road runs through the compartment, with 2-track roads leading from it. Also, the Melstrand Truck Trail is on the north the Sunrise grade runs through the compartment.

Survey Needs: none

Recreational Facilities and Opportunities: The Sunrise Grade snowmobile trail goes through the compartment.

Fire Protection: This compartment is relatively low risk in terms of fire potential due to the slow burning nature of the fuels in the area.

Additional Compartment Information: Text

➤ **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**

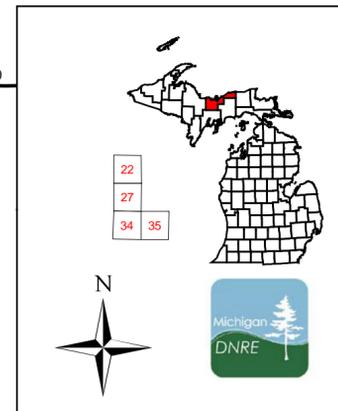
➤ **The following information is displayed, where pertinent, on the attached compartment maps:**

- ◆ **Base feature information, stand boundaries, cover types, and numbers**

- ◆ **Proposed treatments**
- ◆ **Details on the road access system**

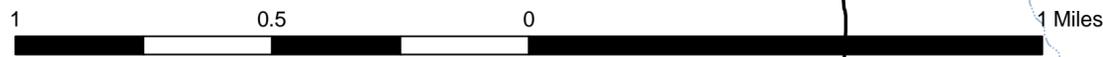
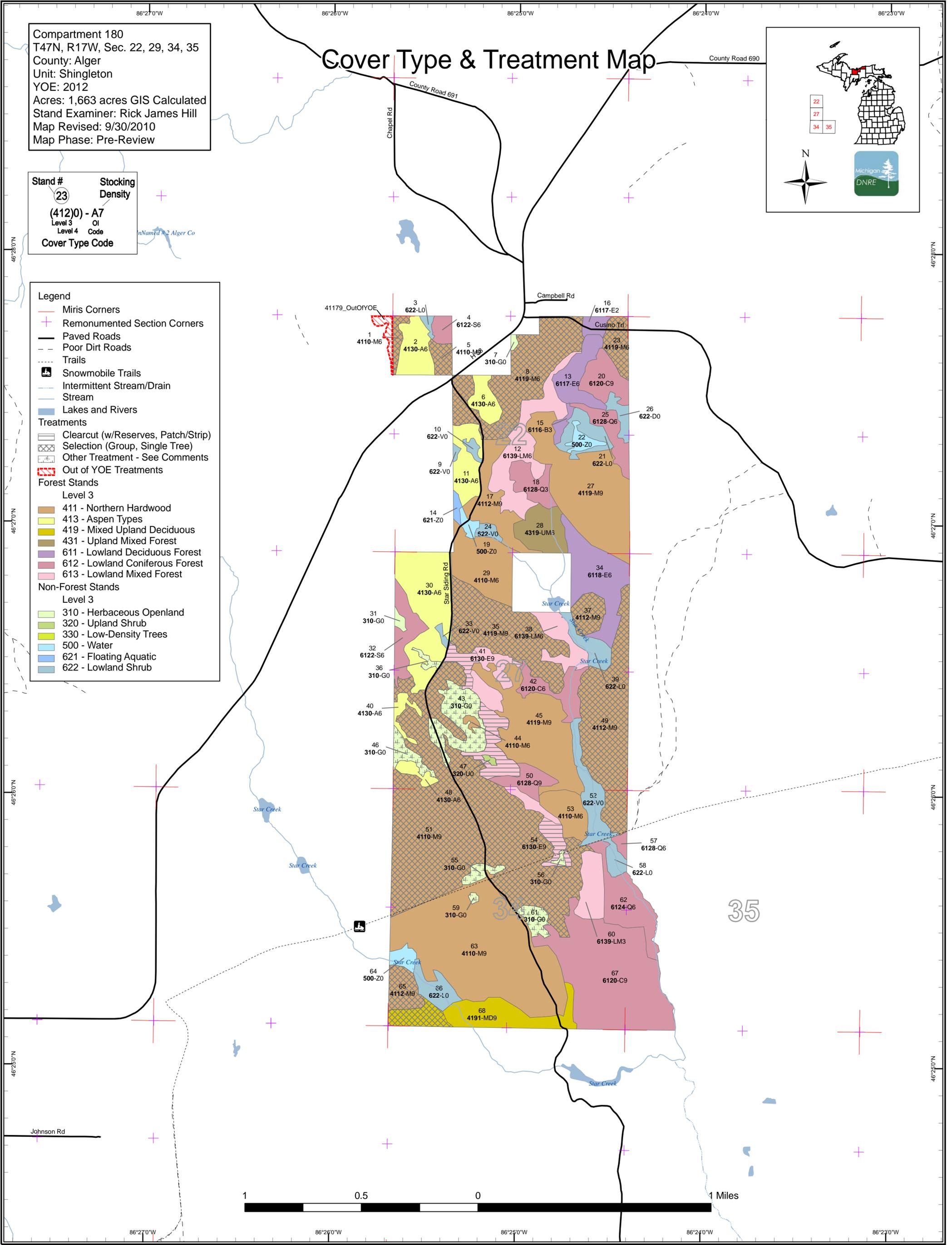
Cover Type & Treatment Map

Compartment 180
 T47N, R17W, Sec. 22, 29, 34, 35
 County: Alger
 Unit: Singleton
 YOE: 2012
 Acres: 1,663 acres GIS Calculated
 Stand Examiner: Rick James Hill
 Map Revised: 9/30/2010
 Map Phase: Pre-Review



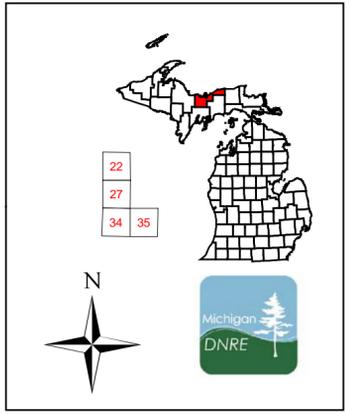
Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - Remonumented Section Corners
 - Paved Roads
 - Poor Dirt Roads
 - Trails
 - Snowmobile Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Selection (Group, Single Tree)
 - Other Treatment - See Comments
 - Out of YOE Treatments
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 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
 - 621 - Floating Aquatic
 - 622 - Lowland Shrub



Compartment 180
 T47N, R17W, Sec. 22, 29, 34, 35
 County: Alger
 Unit: Shingleton
 YOE: 2012
 Acres: 1,663 acres GIS Calculated
 Stand Examiner: Rick James Hill
 Map Revised: 9/30/2010
 Map Phase: Pre-Review

Dedicated & Proposed Special Conservation Area Map



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

- Legend**
- Miris Corners
 - Stand Boundaries
 - + Remonumented Section Corners
 - ▨ SCA - Special Conservation Area
 - ▨ SCA Removal
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - ▨ Visual Management Areas
 - Deer Wintering Areas
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 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
 - 500 - Water
 - 621 - Floating Aquatic
 - 622 - Lowland Shrub

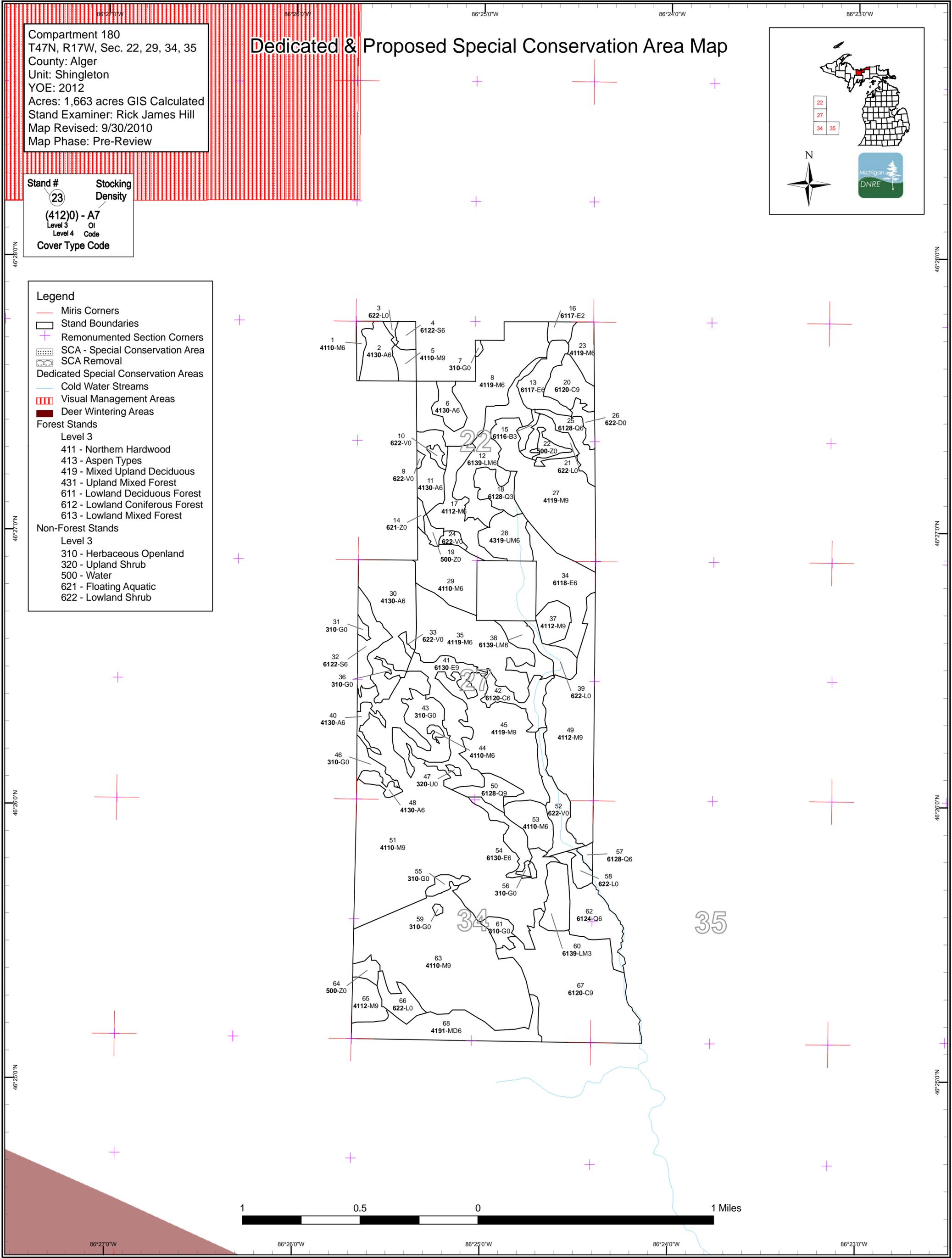
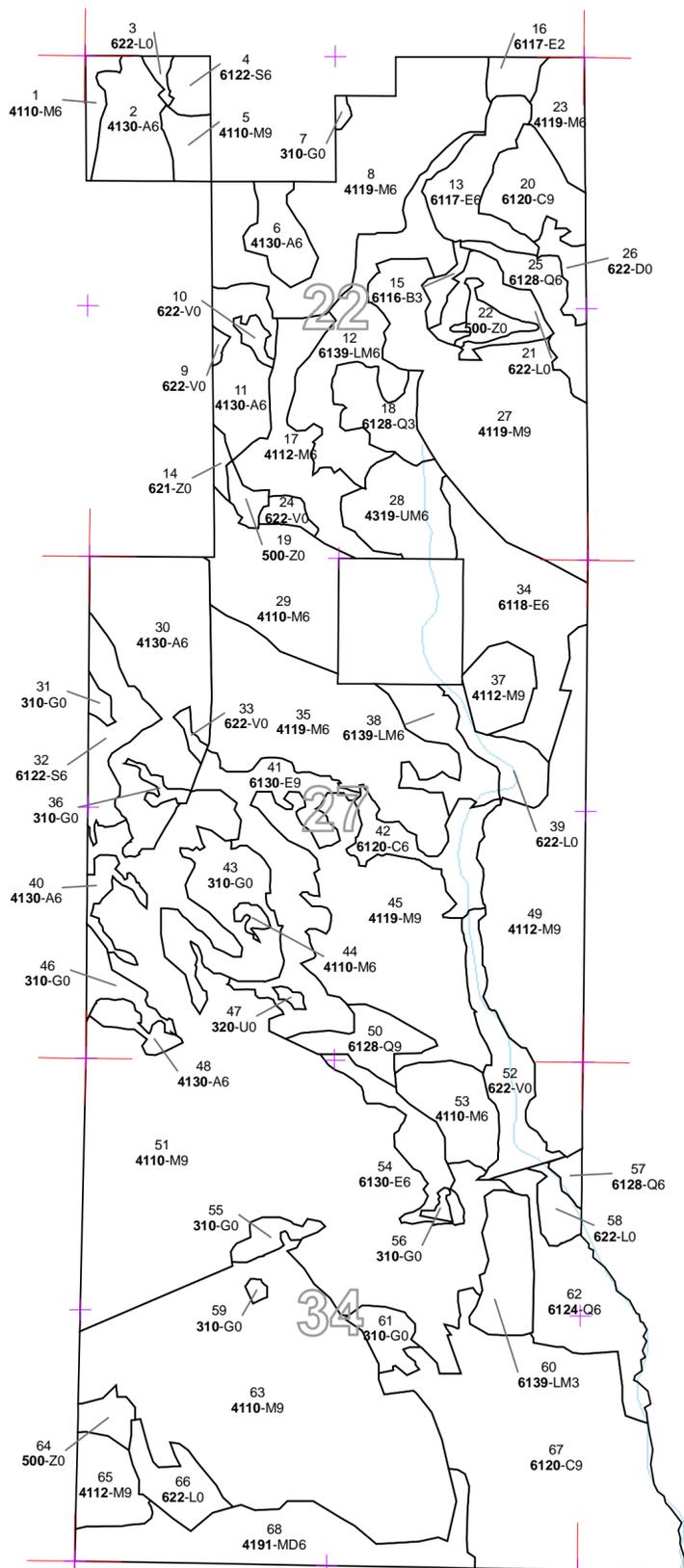


Table 1 – Total Acres by Cover Type and Age Class

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 +		Unrepen Age
Aspen	0	0	0	17	105	0	0	0	0	0	0	0	0	0	0	122
Bog	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Cedar	0	0	0	0	0	0	0	0	0	0	19	0	140	0	0	160
Herbaceous Openland	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Conifers	0	0	0	0	0	0	15	32	0	15	13	0	0	0	3	77
Lowland Deciduous	0	0	0	5	0	0	21	45	0	0	0	0	0	0	0	71
Lowland Mixed Forest	0	0	0	18	0	42	43	15	16	0	0	0	0	0	0	134
Lowland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Spruce/Fir	0	0	0	0	0	0	17	6	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	46
Northern Hardwood	0	0	0	0	0	0	0	2	0	558	0	0	0	0	418	978
Paper Birch	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Treed Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	23
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	157	0	4	41	105	42	96	99	85	572	32	0	140	0	421	1794



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit
Year of Entry 2012

Compartment 180
Total Compartment Acres: 1794

Acres by Treatment Type

Commercial Harvest - 593	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 14	Opening Maintenance - 54	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Mixed Forest	35	0	0	0	0	0	35
Mixed Upland Deciduous	0	13	0	0	0	0	13
Northern Hardwood	0	560	0	0	0	0	560
Total	35	573	0	0	0	0	608

S
t
a
n
d

Data updated before 2:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1 41180001-Cut1	5.1	4110 - Sugar Maple Association	High Density Pole	81	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Reduce BA 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</u> Cut with stand 5, Access will be through c179. Cut stand 6 of c179 while in the area as it is effectively the same stand separated by a compartment line.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</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>								
5 41180005-Cut	7.5	4110 - Sugar Maple Association	High Density Log	81	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. Thin to improve diversity favor retention of mesic conifers. In areas of beech use beach bark marking guidelines. Place gaps in areas of less tolerant species. Cut aspen clones for aspen regeneration single aspen trees should be left for soft snags.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand should be accessed though compartment 179 depending on workload and plan of work issues this stand could be held and bundled hardwood sales in c 179. bundle with other stands in the area. This stand could be a good area for contractor or group project as there is a lot of hardwood in the compartment.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</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>								
8 41180008-Cut	74.7	4119 - Mixed Northern Hardwoods	High Density Pole	81	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 with sugar maple being dominant thin to improve diversity favor retention of mesic conifers. In areas of beech use beach bark marking guidelines. Place gaps in areas of less tolerant species. Cut aspen clones for aspen regeneration single aspen trees should be left for soft snags.</p> <p><u>Specs:</u></p> <p><u>Other</u> Use petrel road for sale access this allows year round access bundle with other stands in the area. This stand could be a good area for contractor or group project as there is a lot of hardwood in the compartment.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</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>								
23 41180023-Cut	13.8	4119 - Mixed Northern Hardwoods	High Density Pole	81	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Cut to 70 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</u> Cut with stand 181</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Could underplant hemlock or white pine if wildlife desires. 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>								
35 41180035-Cut	71.2	4119 - Mixed Northern Hardwoods	High Density Pole	81	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 tolerant species. Cut aspen clones for aspen regeneration single aspen trees should be left for soft snags.</p> <p><u>Specs:</u></p> <p><u>Other</u> Use petrel road for sale access this allows year round access bundle with other stands in the area. This stand is large as a result it should be split into payment units. This stand could be a good area for contractor or group project as there is a lot of hardwood in the compartment.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> If wildlife wishes to plant hemlock this areas stand could be planted. 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>								



Data updated before 2:00 PM

S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37 41180037-Cut	13.0	4112 - Maple, Beech, Cherry Association	High Density Log	82	Harvest	Single Tree Selection	Maple, Beech, Cherry 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. Thin to improve diversity favor retention of mesic confers. In areas of beech use beach bark marking guidelines. Place gaps in areas of less tolerant species. Cut aspen clones for aspen regeneration single aspen trees should be left for soft snags.</p> <p><u>Specs:</u></p> <p><u>Other</u> This is an upland island in a wet area. This area will need to be harvested in the winter a skid trail will have to be frozen from stand 49 to access the stand.</p> <p><u>Comments:</u></p> <p><u>Next</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>Steps:</u></p>								
41 41180041-Cut	26.0	6130 - Fir, Aspen, Maple	High Density Log	54	Harvest	Clearcut with Reserves	Fir, Aspen, Maple	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut this stand, it is a mixed lowland stand with a lot of fir, maple and spruce. Do not cut Hemlock, Cedar or White Pine</p> <p><u>Specs:</u></p> <p><u>Other</u> Include in adjacent hardwood sale. Use petrel road for sale access this allows year round access bundle with other stands in the area.</p> <p><u>Comments:</u></p> <p><u>Next</u> Acceptable regeneration is a mix Black Spruce, Jack Pine, Aspen, Balsam Fir, Tamarack and Red Maple.</p> <p><u>Steps:</u></p>								
49 41180049-Cut	87.0	4112 - Maple, Beech, Cherry Association	High Density Log	82	Harvest	Single Tree Selection	Maple, Beech, Cherry 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 confers. In areas of beech use beach bark marking guidelines. Place gaps in areas of less tolerant species. Cut aspen clones for aspen regeneration single aspen trees should be left for soft snags.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand could best be accessed by putting a culvert in to cross the ditch next to sunrise grade and by opening up an old road spur in to the stand. Access is on the sunrise grade which is a snowmobile trail. Access though forest land group could be used if winter logging would be necessary.</p> <p><u>Comments:</u></p> <p><u>Next</u> If wildlife wishes to plant hemlock this areas stand could be planted. 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>Steps:</u></p>								
51 41180051-Cut	273.5	4110 - Sugar Maple Association	High Density Log	81	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 with sugar maple being dominant 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 single aspen trees should be left for soft snags.</p> <p><u>Specs:</u></p> <p><u>Other</u> Use petrel road for sale access this allows year round access bundle with other stands in the area. This stand is large as a result it should be split into payment units. This stand could be a good area for contractor or group project as there is a lot of hardwood in the compartment.</p> <p><u>Comments:</u></p> <p><u>Next</u> If wildlife wishes to plant hemlock this areas stand could be planted. 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>Steps:</u></p>								
54 41180054-Cut	9.0	6130 - Fir, Aspen, Maple	High Density Pole	62	Harvest	Clearcut with Reserves	Mixed Lowland Deciduous Forest	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut this stand, it is a mixed lowland stand with a lot of fir, maple and spruce. Do not cut Hemlock, Cedar or White Pine</p> <p><u>Specs:</u></p> <p><u>Other</u> Include in adjacent hardwood sale. Winter harvest of this stand will be an issue due to snowmobile trail adjacency and lack of alternate access. The best alternative will be to cut during dry summer conditions, or to include a spec to mitigate any serious trail impact.</p> <p><u>Comments:</u></p> <p><u>Next</u> Acceptable regeneration is a mix Black Spruce, Jack Pine, Aspen, Balsam Fir, Tamarack, Red Maple, White Birch, Hemlock and White Pine</p> <p><u>Steps:</u></p>								



Data updated before 2:00 PM

S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65 41180065-Cut	14.4	4112 - Maple, Beech, Cherry Association	High Density Log	87	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 confers. In areas of beech use beech bark marking guidelines. Place gaps in areas of less tolerant species. Cut aspen clones for aspen regen. Leave single aspen trees as soft snags.</p> <p><u>Specs:</u></p> <p><u>Other</u> This stand and the stand to its south will be cut with stand 24 in compartment 183. Access will be the snowmobile trail and two track in compartment 184. As a result this harvest should have a seasonal restriction eliminating winter activity or a spec to mitigate any serious trail impact. .</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Acceptable regeneration is a mix of hardwood species including Sugar maple, Red maple, Basswood, Black Cherry, Yellow Birch, Aspen, White Birch, Beech, Hemlock and White Pine</p>								
68 41180068_sm all-Cut	12.6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	72	Harvest	Single Tree Selection	Maple, Beech, Cherry 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 confers. In areas of beech use beech 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</u> This stand will be cut with stand 24 in compartment 183. Access will be the snowmobile trail and two track in compartment 184. As a result this harvest should have a seasonal restriction eliminating winter activity, or a sale spec to mitigate any serious trail impact. .</p> <p><u>Comments:</u></p> <p><u>Next Steps:</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>								
36 NF_41180036- NonFor	2.3	Non-Forested		0	Non-Forest Management	Other - Specify	Multiple/Other – Specify in Comments	Cmpt. Review Proposal
<p><u>Prescription</u> Clear opening of any encroaching woody vegetation also plant rye and clover in areas with no pin cherry and crab apple.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>								
43 NF_41180043- NonFor	28.9	Non-Forested		0	Non-Forest Management	Other - Specify	Multiple/Other – Specify in Comments	Cmpt. Review Proposal
<p><u>Prescription</u> Clear opening of any encroaching woody vegetation also plant rye and clover in areas with no pin cherry and crab apple.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>								
46 NF_41180046- NonFor	7.6	Non-Forested		0	Non-Forest Management	Other - Specify	Multiple/Other – Specify in Comments	Cmpt. Review Proposal
<p><u>Prescription</u> Clear opening of any encroaching woody vegetation also plant rye and clover in areas with no pin cherry and crab apple.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p>								

S
t
a
n
d

Data updated before 2:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55 NF_41180055-NonFor	5.3	Non-Forested		0	Non-Forest Management	Other - Specify	Multiple/Other – Specify in Comments	Cmpt. Review Proposal

Prescription Clear opening of any encroaching woody vegetation also plant rye and clover in areas with no pin cherry and crab apple.

Specs:

Other

Comments:

Next

Steps:

56 NF_41180056-NonFor	1.2	Non-Forested		0	Non-Forest Management	Other - Specify	Multiple/Other – Specify in Comments	Cmpt. Review Proposal
-----------------------	-----	--------------	--	---	-----------------------	-----------------	--------------------------------------	-----------------------

Prescription Clear opening of any encroaching woody vegetation also plant rye and clover in areas with no pin cherry and crab apple.

Specs:

Other

Comments:

Next

Steps:

59 NF_41180059-NonFor	1.0	Non-Forested		0	Non-Forest Management	Other - Specify	Multiple/Other – Specify in Comments	Cmpt. Review Proposal
-----------------------	-----	--------------	--	---	-----------------------	-----------------	--------------------------------------	-----------------------

Prescription Clear opening of any encroaching woody vegetation also plant rye and clover in areas with no pin cherry and crab apple.

Specs:

Other

Comments:

Next

Steps:

61 NF_41180061-NonFor	7.7	Non-Forested		0	Non-Forest Management	Other - Specify	Multiple/Other – Specify in Comments	Cmpt. Review Proposal
-----------------------	-----	--------------	--	---	-----------------------	-----------------	--------------------------------------	-----------------------

Prescription Clear opening of any encroaching woody vegetation also plant rye and clover in areas with no pin cherry and crab apple.

Specs:

Other

Comments:

Next

Steps:

**Total Treatment
Acreage Proposed: 661.7**



S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	------------------	--------------	-----------	----------------	------------------	----------------------	-----------------

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0



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						



S t a n d	Shingleton Mgt. Unit		5 – Forested Stands			Compartment: 180	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
							General Comments:
1	4110 - Sugar Maple Association	High Density Pole	5.1	81			
2	4130 - Aspen	High Density Pole	19.7	35			
4	6122 - Black Spruce	High Density Pole	6.1	65			
5	4110 - Sugar Maple Association	High Density Log	7.5	81	111-140		
6	4130 - Aspen	High Density Pole	11.8	25			
8	4119 - Mixed Northern Hardwoods	High Density Pole	74.7	81	111-140		A nice hardwood stand with a lot of diversity.
11	4130 - Aspen	High Density Pole	20.5	35			
12	6139 - Mixed Lowland Forest	High Density Pole	41.6	47			
13	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	21.0	57	81-110		
15	6116 - Lowland Birch	High Density Sapling	3.7	14			
16	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	5.4	26			
17	4112 - Maple, Beech, Cherry Association	High Density Log	29.5	81	81-110		
18	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	14.8	59			
20	6120 - Lowland Cedar	High Density Log	19.4	90			
23	4119 - Mixed Northern Hardwoods	High Density Pole	13.8	81	111-140		
25	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	14.6	82			
27	4119 - Mixed Northern Hardwoods	High Density Log	88.4	81	81-110		Vary nice stand, looks good.
28	4319 - Mixed Upland Forest	High Density Pole	22.7	75	141-170		

S
t
a
n
d

Shingleton Mgt. Unit

5 – Forested Stands
Data updated before 2:00 PMCompartment: 180
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4110 - Sugar Maple Association	High Density Pole	39.1	81	81-110	
30	4130 - Aspen	High Density Pole	59.6	35		Good looking stand starting to develop good understory.
32	6122 - Black Spruce	High Density Pole	17.2	50		
34	6118 - Lowland Deciduous with Cedar	High Density Pole	44.7	61		
35	4119 - Mixed Northern Hardwoods	High Density Log	71.2	Uneven Age	111-140	
37	4112 - Maple, Beech, Cherry Association	High Density Log	13.0	82	141-170	
38	6139 - Mixed Lowland Forest	High Density Pole	16.5	74		
40	4130 - Aspen	High Density Pole	5.4	26		
41	6130 - Fir, Aspen, Maple	High Density Log	42.6	54		
42	6120 - Lowland Cedar	High Density Pole	18.1	114		
44	4110 - Sugar Maple Association	High Density Pole	1.8	61	51-80	
45	4119 - Mixed Northern Hardwoods	High Density Log	73.5	Uneven Age	81-110	
48	4130 - Aspen	High Density Pole	5.3	34		
49	4112 - Maple, Beech, Cherry Association	High Density Log	86.9	82	111-140	
50	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	12.7	92		
51	4110 - Sugar Maple Association	High Density Log	273.5	Uneven Age	141-170	
53	4110 - Sugar Maple Association	High Density Pole	18.5	81	81-110	
54	6130 - Fir, Aspen, Maple	High Density Log	14.7	62		

S
t
a
n
d

Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 180

Data updated before 2:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	2.8	Uneven Age		
60	6139 - Mixed Lowland Forest	High Density Sapling	18.4	26		
62	6124 - Lowland Spruce- Fir	High Density Pole	32.2	65		
63	4110 - Sugar Maple Association	High Density Log	166.7	80	81-110	
65	4112 - Maple, Beech, Cherry Association	High Density Log	14.3	87	111-140	Cut with adjacent compartment due to access issues.
67	6120 - Lowland Cedar	High Density Log	122.3	114		
68	4191 - Mixed Upland Deciduous with Conifer	High Density Log	45.7	72		This stand is a mix of hardwood and lowland conifer thin hardwood on west side of the creek with stand 65 and adjacent compartment.



Stand	Cover Type	Acres	Gen Cmts:
3	6220 - Alder/willow	1.9	
7	3105 - Mixed Upland Herbaceous	1.1	
9	6225 - Bog	1.0	
10	6225 - Bog	2.5	
14	621 - Floating Aquatic	2.4	
19	50 - Water	3.6	
21	6220 - Alder/willow	13.2	
22	50 - Water	5.5	
24	6225 - Bog	3.5	
26	6224 - Treed Bog	6.4	
31	3102 - Grass	1.9	
33	6225 - Bog	1.6	
36	3102 - Grass	2.3	
39	6220 - Alder/willow	11.6	
43	3102 - Grass	28.9	
46	3102 - Grass	7.6	
47	320 - Upland Shrub	1.0	
52	6225 - Bog	21.1	



Stand	Cover Type	Acres	Gen Cmts:
55	3102 - Grass	5.3	
56	3102 - Grass	1.2	
58	6220 - Alder/willow	6.3	
59	3102 - Grass	1.0	
61	3102 - Grass	7.7	
64	50 - Water	5.7	
66	6220 - Alder/willow	12.8	



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	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.