



Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #187 Entry Year: 2012
Compartment Acreage: 1380 County: Alger

Revision Date: October 26, 2010

Stand Examiner: Robert Tylka

Legal Description: T46N-R17W, Sections 10, 11, 14, 15 and 23

Identified Planning Goals ('Management Area' or 'RMU', if applicable): This compartment falls within the Cusino Complex Management Area.

Management Goals: Timber production and wildlife habitat for wintering deer are the primary goals here.

Soil and Topography: The majority of this compartment falls within the Cusino Swamp LTA, with a small portion in the Munising Moraine LTA. In general the area features gently rolling terrain with heavy, fine textured soils, plus wetlands along the Star Creek corridor and several associated drainages.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This area is part of a large contiguous block of state forest land. Private ownership is mainly limited to parcels along Star Siding Road nearby; only about 10 acres of private land at the junction of Petrel Road and the Metser Grade fall within this compartment. There is no development other than woods roads.

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, mixed swamp conifer, and swamp hardwoods.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations: This compartment falls within the Petrel Deeryard.

Watershed and Fisheries Considerations: Fisheries Values, Good. Both the Star Creek system and Metser Creek are classified SQCW, capable of supporting native brook trout.

Wildlife Habitat Considerations: This compartment is located within the Grand Marais Sandy End Moraine and Outwash sub-subsection. The average growing season is approximately 120 days. The extreme minimum winter temperature generally reaches approximately -35° F. Snowfall in this compartment averages 170 to 180 inches annually. A review of the General Land Office survey notes show the presettlement vegetation was dominated by sugar maple, hemlock, yellow birch, white pine, balsam fir, and beech in the uplands. The notes also mentioned ironwood. Lowlands appear to have been dominated by cedar, tamarack, black spruce, elm, and black ash. Windthrow and beaver ponding were most likely the dominant forms of natural disturbance. Current vegetation appears to be similar to that noted in 1850 during the original survey work. Uplands are dominated by sugar maple, hemlock, beech, and yellow birch, with white pine mixed in. Lowlands contain primarily cedar. This compartment constitutes a portion of the petrel deeryard, and as such, will be managed primarily with deer in mind. However, other values such as forest interior bird species are considered when conducting treatments. With the exception of gray wolves, which prey on the wintering deer, there are no known endangered, threatened, or special concern species within this

compartment. Other wildlife species of interest known to utilize this compartment include bobcat, black bear, fisher, marten, moose, spruce grouse, gray jay, red-breasted nuthatch, pileated woodpecker, and saw-whet owls.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) subcrops below the glacial drift. The PdC could be used for stone. The nearest gravel pit (quarry?) is in the SW of Section 14. There appears to be gravel potential on State lands along the west and south compartment boundaries.

Vehicle Access: Access is from the Petrel and Commencement Roads via Star Siding Road.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: There are no developed recreational facilities in this compartment, but it provides good opportunities for hunting, fishing and trapping.

Fire Protection: Access may be limited to some areas of the compartment by the low, wet terrain along Star Creek and its associated drainages.

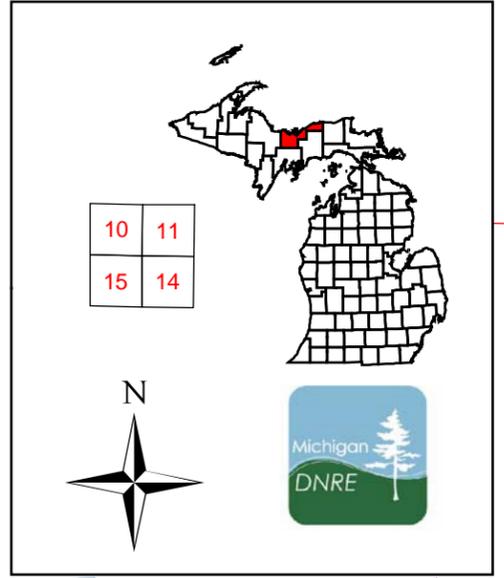
Additional Compartment Information:

- **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

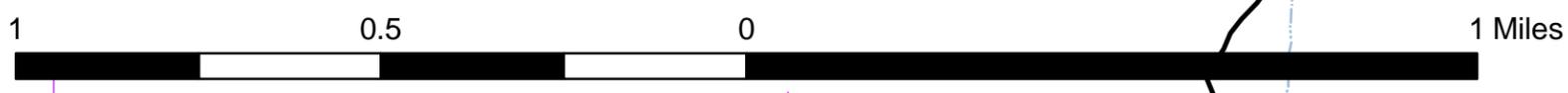
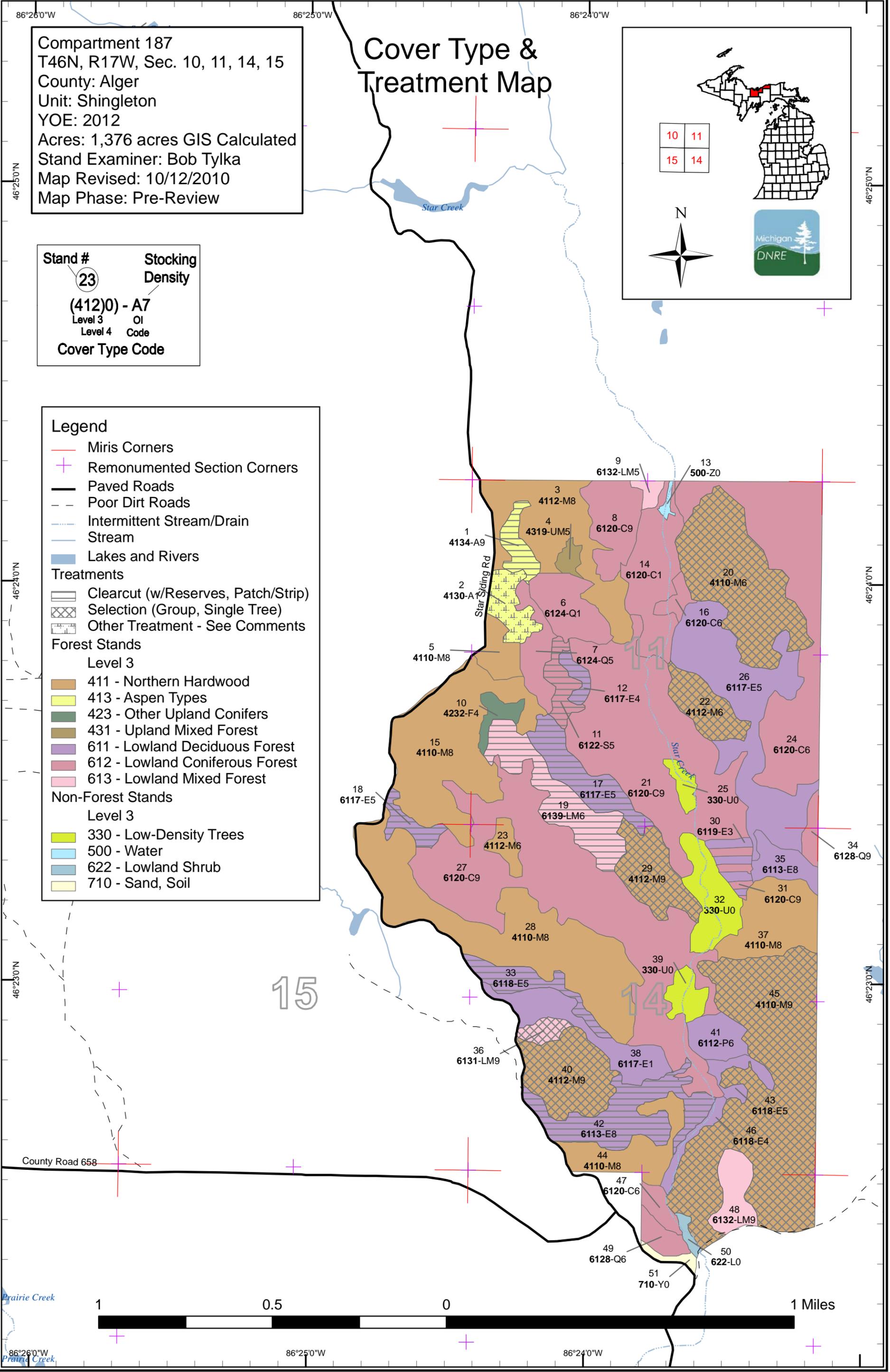
Compartment 187
 T46N, R17W, Sec. 10, 11, 14, 15
 County: Alger
 Unit: Shingleton
 YOE: 2012
 Acres: 1,376 acres GIS Calculated
 Stand Examiner: Bob Tylka
 Map Revised: 10/12/2010
 Map Phase: Pre-Review



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
- - - Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Treatments**
- ▭ Clearcut (w/Reserves, Patch/Strip)
- ▨ Selection (Group, Single Tree)
- ▭ Other Treatment - See Comments
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand, Soil



86°25'0"W

86°24'0"W

86°23'0"W

46°25'0"N

46°25'0"N

46°24'0"N

46°24'0"N

46°23'0"N

46°23'0"N

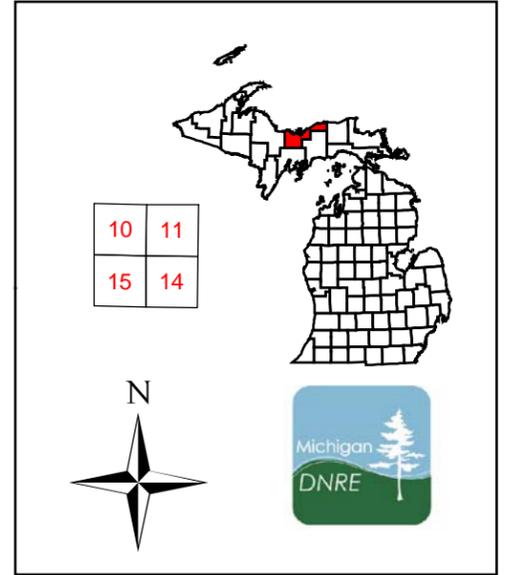
86°25'0"W

86°24'0"W

86°23'0"W

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 T46N, R17W, Sec. 10, 11, 14, 15
 County: Alger
 Unit: Shingleton
 YOE: 2012
 Acres: 1,376 acres GIS Calculated
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 Map Revised: 10/12/2010
 Map Phase: Pre-Review

Dedicated & Proposed Special Conservation Area Map



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

Legend

- Miris Corners
- + Remonumented Section Corners
- Proposed Special Conservation Areas
- ▨ SCA - Special Conservation Area
- ▨ SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams
- Deer Wintering Areas
- Stand Boundaries
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
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- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand, Soil

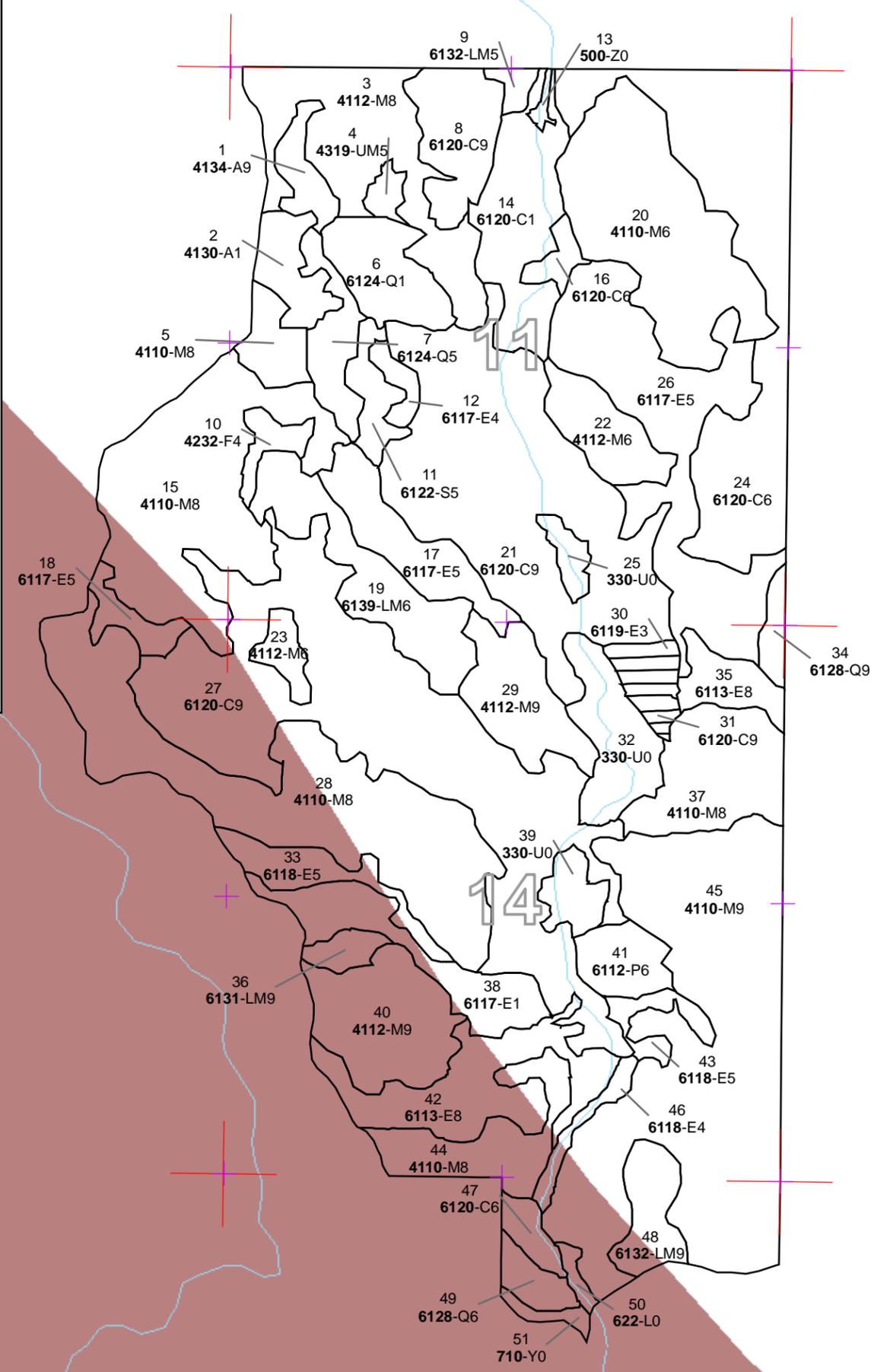


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 2:00 PM



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneten Age
Aspen	0	0	12	0	0	0	8	0	0	0	0	0	0	0	0	20
Cedar	0	0	0	0	0	0	0	34	0	83	0	6	286	4	0	413
Low-Density Trees	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Aspen/Balsam Poplar	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	20	0	14	0	0	0	0	0	7	5	0	0	45
Lowland Deciduous	0	0	0	0	6	0	0	0	95	7	0	59	31	0	10	207
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	33	22	0	0	54
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Northern Hardwood	0	0	0	0	0	0	6	0	114	160	24	0	0	141	124	568
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	41	0	12	32	6	14	14	37	209	250	24	104	344	145	148	1380



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit
Year of Entry 2012

Compartment 187
Total Compartment Acres: 1380

Acres by Treatment Type

Commercial Harvest - 419	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 12
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
Aspen	8	0	0	0	0	0	0	8
Lowland Deciduous	83	0	0	0	0	0	0	83
Lowland Mixed Forest	33	5	0	0	0	0	0	38
Lowland Spruce/Fir	9	0	0	0	0	0	0	9
Northern Hardwood	0	280	0	0	0	0	0	280
Total	133	285	0	0	0	0	0	419



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
1 41187001-Cut	8.3	4134 - Aspen, Spruce/Fir	High Density Log	50	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription CC w/reserves - do not cut any hemlock, cedar or white pine. Do not cut submerchantable conifers. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: TSI to remove residual submerchantable hardwoods. Acceptable regeneration includes aspen, birch and all conifer species. Regen surveys will be done in accordance with Work Instructions.

11 41187011-Cut	9.0	6122 - Black Spruce	Medium Density Pole	80	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal
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Prescription CC w/reserves - do not cut cedar, hemlock, white pine or submerchantable conifers. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regeneration includes all conifers and birches. Regen surveys will be done in accordance with Work Instructions.

12 41187012-Cut	4.3	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	90	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription CC w/reserves - do not cut cedar, hemlock, white pine or submerchantable conifers. No chipping in this compartment.

Specs:

Other

Comments:

Winter cut for operability

Next Steps: Acceptable regeneration includes all species present. Regen surveys will be done in accordance with Work Instructions.

17 41187017-Cut	21.7	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	107	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription CC w/reserves - do not cut cedar, hemlock, white pine or submerchantable conifers. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regeneration includes all species present; regen survey will be done in accordance w/Work Instructions.

18 41187018-Cut	7.0	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	87	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription CC w/reserves - retain all hemlock, cedar, white pine and submerchantable conifers. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regeneration includes all species present. Regen surveys will be done in accordance with Work Instructions.



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19 41187019-Cut	32.6	6139 - Mixed Lowland Forest	High Density Pole	107	Harvest	Clearcut with Reserves	Mixed Lowland Forest	Cmpt. Review Proposal

Prescription CC w/reserves - retain cedar, hemlock, white pine and submerchantable conifers. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regen includes all species present. Regen surveys will be done in accordance with Work Instructions.

20 41187020-Cut	65.4	4110 - Sugar Maple Association	High Density Pole	77	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
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Prescription Select cut to residual BA of 80-90. Maintain/enhance species diversity where possible. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regen includes all species in the sugar maple association. Regen survey will be done in accordance with the Work Instructions.

22 41187022-Cut	16.9	4112 - Maple, Beech, Cherry Association	High Density Pole	77	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Select cut to 80-90 BA. Maintain/enhance species diversity where possible. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regen includes all species in the maple-beech-cherry association. Regen survey will be done in accordance with the Work Instructions.

29 41187029-Cut	23.9	4112 - Maple, Beech, Cherry Association	High Density Log	91	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Select cut to 80-90 BA. Maintain/enhance species diversity where possible. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regen includes all species in the maple-beech-cherry association. Regen survey will be done in accordance with the Work Instructions.

33 41187033-Cut	13.3	6118 - Lowland Deciduous with Cedar	Medium Density Pole	70	Harvest	Clearcut with Reserves	Lowland Deciduous with Cedar	Cmpt. Review Proposal
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Prescription CC w/reserves - retain all cedar, hemlock, white pine and submerchantable conifers. No chipping in this compartment.

Specs:

Other

Comments:

Next Steps: Acceptable regen includes all species in the present association. Regen survey will be done in accordance with the Work Instructions.



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
36 41187036-Cut	5.0	6131 - Hemlock, White Pine, Maple, Birch	High Density Log	112	Harvest	Single Tree Selection	Mixed Lowland Forest	Cmpt. Review Proposal

Prescription: Select cut with the adjacent northern hardwood stand to the south. Retain hemlock, cedar and white pine; do not mark trees if harvesting them
Specs: will likely damage the reserve trees. No chipping in this compartment.

Other Comments:

Next Steps: Acceptable regen includes all species in the present association. Regen survey will be done in accordance with the Work Instructions.

40 41187040-Cut	33.0	4112 - Maple, Beech, Cherry Association	High Density Log	80	Harvest	Single Tree Selection	Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription: Select cut to 80-90 BA. Maintain/enhance species diversity. Do not cut hemlock, cedar or white pine. No chipping in this compartment.
Specs:

Other Comments:

Next Steps: Acceptable regen includes all species in the maple-beech-cherry association. Regen survey will be done in accordance with the Work Instructions.

42 41187042-Cut	37.1	6113 - Lowland Maple	Medium Density Log	108	Harvest	Clearcut with Reserves	Lowland Maple	Cmpt. Review Proposal
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Prescription: CC w/reserves - do not cut hemlock, cedar, white pine or submerchantable conifers. No chipping in this compartment.
Specs:

Other Comments:

Next Steps: Acceptable regen includes all species in the lowland maple association. Regen survey will be done in accordance with the Work Instructions.

45 41187045-Cut	141.3	4110 - Sugar Maple Association	High Density Log	120	Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
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Prescription: Select cut to 80-90 BA. Maintain/enhance species diversity where possible. No chipping in this compartment.
Specs:

Other Comments:

Next Steps: Acceptable regen includes all species in the sugar maple association. Regen survey will be done in accordance with the Work Instructions.

2 41187002-Other	12.1	4130 - Aspen	Low Density Sapling	10	Other	Unspecified	Warm Season Grass	Cmpt. Review Proposal
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Prescription: Opening maintenance - no chipping allowed in this compartment.
Specs:

Other Comments:

Next Steps:

**Total Treatment
Acreage Proposed: 430.8**



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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						



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	High Density Log	8.3	50	51-80	
2	4130 - Aspen	Low Density Sapling	12.1	10		Previously classified as grassland; expanding aspen clones now occupy a significant amount of the area, along with upland brush spp. and scattered spruce. The age given here approximates the age/size class relationship for managed aspen.
3	4112 - Maple, Beech, Cherry Association	Medium Density Log	49.1	Uneven Age	51-80	
4	4319 - Mixed Upland Forest	Medium Density Pole	3.4	61		Unevenaged characteristics in the balsam fir & hardwoods. The age given is an average for the larger balsam fir.
5	4110 - Sugar Maple Association	Medium Density Log	9.9	86	81-110	Unevenaged sugar maple stand, recently thinned. Slash is not excessive. Age represents a 14" log tree.
6	6124 - Lowland Spruce- Fir	Low Density Sapling	20.0	22		
7	6124 - Lowland Spruce- Fir	Medium Density Pole	13.6	40	1-50	Young white spruce, 1-2 sticks tall. Canopy closure varies between 25 and 100%
8	6120 - Lowland Cedar	High Density Log	22.3	118	200+	
9	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	3.0	118	1-50	Lower density/greater spp. diversity than the cedar stand to the east.
10	42320 - Upland Spruce	Low Density Pole	5.8	Uneven Age	1-50	Stand appears to be semi-open and filling in gradually; sub-canopy includes non-commercial cherry spp.
11	6122 - Black Spruce	Medium Density Pole	9.0	Uneven Age	81-110	Multiple age classes, but oldest cohorts are ready for harvest. The age given is an approximate average. Site indices appear to be quite variable.
12	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	4.3	Uneven Age	1-50	Rolling bottomland - very wet in places. Mixed timber/unevenaged characteristics, and canopy closure varies from 0 to 100%
14	6120 - Lowland Cedar	Low Density Sapling	33.6	60		Low site indices/low productivity = non-commercial forest area; age is probably variable, but an estimate is given.
15	4110 - Sugar Maple Association	Medium Density Log	74.5	Uneven Age	81-110	Last cut in mid 80's - BA now varies from 70 to 140, avg approx 100 - 110. Could enter now, but probably more productive to wait until next entry since the BA in about half of the stand area is under 100 BA.
16	6120 - Lowland Cedar	High Density Pole	4.6	118	81-110	Cedar stand near Star Creek. Age estimate is based on nearby cedar; site indices appear to be somewhat lower than nearby cedar stands due to the lower, wetter terrain near the creek.



Data updated before 2:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	21.7	107	81-110	
18	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	7.0	87	111-140	
19	6139 - Mixed Lowland Forest	High Density Pole	32.6	107	111-140	Unevenaged characteristics are evident.
20	4110 - Sugar Maple Association	High Density Pole	65.4	77	81-110	
21	6120 - Lowland Cedar	High Density Log	112.3	118	171-200	Cedar stand - part of Petrel Deeryard.
22	4112 - Maple, Beech, Cherry Association	High Density Pole	16.9	77	81-110	Unevenaged, medium quality hardwoods. Last thinned in the early 80's - almost ready for a selection cut, but holding until next entry should yield significantly greater log volumes & value.
23	4112 - Maple, Beech, Cherry Association	High Density Pole	6.0	50	81-110	
24	6120 - Lowland Cedar	High Density Pole	83.2	88	171-200	
26	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	70.8	76	81-110	Primarily mixed lowland hardwoods, but stand density and composition vary significantly within the stand. Lower & wetter ground than the sugar maple stands on the north & south sides, and generally lower quality trees.
27	6120 - Lowland Cedar	High Density Log	147.2	118	111-140	Part of the Petrel Deeryard. Species composition varies by site, but overall cedar is the dominant canopy species present.
28	4110 - Sugar Maple Association	Medium Density Log	94.0	80	81-110	
29	4112 - Maple, Beech, Cherry Association	High Density Log	23.9	91	111-140	
30	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	5.7	33		Strip cuts - dense regeneration. Cut in winter of 76/77.
31	6120 - Lowland Cedar	High Density Log	4.2	123	200+	Uncut strips of mature cedar. The strips that are cut are fully regenerated - may finish now by cutting the rest.
33	6118 - Lowland Deciduous with Cedar	Medium Density Pole	13.3	70	81-110	Some unevenaged characteristics present. The age given represents the hardwood poles. The cedar & ash are primarily found along the south edge, adjacent to the nearby drainage.
34	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	4.8	118	81-110	Age estimate based on nearby stands.

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Shingleton Mgt. Unit

5 – Forested Stands
Data updated before 2:00 PMCompartment: 187
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	6113 - Lowland Maple	Medium Density Log	10.9	75		Thinned since last entry - sale closed in 2007.
36	6131 - Hemlock, White Pine, Maple, Birch	High Density Log	5.0	112	111-140	Part of Petrel Deeryard. Unevenaged characteristics are becoming evident.
37	4110 - Sugar Maple Association	Medium Density Log	31.5	75	51-80	Recently select cut (Sale closed in 2007.)
38	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	24.5	114	1-50	Low site indices and low overall productivity - no commercial potential.
40	4112 - Maple, Beech, Cherry Association	High Density Log	33.0	80	141-170	Unevenaged. Hemlock in patches of 50-60 BA. The age given represents hardwood 12-14" DBH logs; numerous larger trees present.
41	6112 - Lowland Aspen	High Density Pole	12.1	28	51-80	Young aspen - now 1-3 sticks in the merch, stems. The paper birch in the upper canopy is healthy but smaller DBH.
42	6113 - Lowland Maple	Medium Density Log	37.1	108	111-140	
43	6118 - Lowland Deciduous with Cedar	Medium Density Pole	6.7	118	51-80	Leave for undisturbed wildlife habitat when harvesting the surrounding hardwoods. Unevenaged characteristics are evident; the given age was estimated by comparing the cedar to nearby stands. Crown closure, BA and species composition are highly variable.
44	4110 - Sugar Maple Association	Medium Density Log	23.0	80	51-80	Recently thinned.
45	4110 - Sugar Maple Association	High Density Log	141.3	120	111-140	High value, almost pure sugar maple with many logs - time for a selection cut.
46	6118 - Lowland Deciduous with Cedar	Low Density Pole	5.4	Uneven Age		
47	6120 - Lowland Cedar	High Density Pole	5.6	107	111-140	
48	6132 - Mixed Lowland Forest with Cedar	High Density Log	13.7	118	171-200	Leave for undisturbed wildlife habitat when harvesting the surrounding hardwoods. Unevenaged characteristics are evident; the given age was estimated by comparing the cedar to nearby stands.
49	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	6.6	107	51-80	



Stand	Cover Type	Acres	Gen Cmts:
13	50 - Water	1.3	
25	3303 - Mixed Low Density Trees	4.8	Mix of various lowland shrubs and other wet spp. with scattered trees throughout. The trees are generally larger around the stands's perimeter, and canopy closure is also heavier there.
32	3303 - Mixed Low Density Trees	21.8	Mix of various lowland shrubs and other wet land spp. with scattered trees throughout. The trees are generally larger around the stands's perimeter, and canopy closure is also heavier there.
39	3303 - Mixed Low Density Trees	8.3	Mix of various lowland shrubs and other wetland spp. with scattered trees throughout. The trees are generally larger around the stands's perimeter, and canopy closure is also heavier there.
50	6220 - Alder/willow	2.3	
51	710 - Sand, Soil	2.8	Borrow pit alongside the Petrel Rd. with scattered (mostly sub-merchantable) trees.



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.
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.