



# Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61172

Entry Year 2020

Acreage: 1,868

County Kalkaska

Management Area: Williamsburg Moraine

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**Revision Date:** 2018-04-16

**Stand Examiner:** Steve Crigier

**Legal Description:**

T28N R7W Sections 19, 20, 21, 22, and 23

**Identified Planning Goals:**

Vegetation management in the Williamsburg Moraine management area will provide various forest products; maintain or enhance wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management objectives for this management area for this 10-year planning period include improving the age-class structure of aspen, regenerating oak and the continuation of management through selection or restarting harvests of red pine and upland hardwood communities. Wildlife habitat management objectives include increasing the structural complexity of upland hardwood communities for forest interior species; perpetuating early-successional communities for young-forest-dependent species, hunting and other wildlife-related recreation opportunities; maintaining soft and hard mast sources including oak; and preserving the biodiversity value of the Skegemog high conservation value area. Expected trends within this 10-year planning period are: increased recreational pressure, especially on established trails; increased oil and gas development; introduced pests and diseases, especially beech bark disease and emerald ash borer; an increased need to regenerate oak and red pine; and the decreased dominance of pure oak types to mixed oak/pine types.

**Soil and topography:**

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

There are multiple private inholdings in and around Sections 22 and 23.

**Unique Natural Features:**

Osprey have been know to have nests within the compartment.

**Archeological, Historical, and Cultural Features:**

A number of old homesteads can be found within the compartment.

**Special Management Designations or Considerations:**

Rapid River is listed as a High Priority Trout Stream.

**Watershed and Fisheries Considerations:**

The Rapid River flows through the compartment.

**Wildlife Habitat Considerations:**

Most of compartment 172 contains excessively drained sandy soils with scattered ice-block depressions. This compartment is within the Williamsburg Moraines Management Area (MA) of the Regional State Forest Management Plan. Featured wildlife species and their habitat niches for this MA include Marten, woodcock, beaver, bear, black-throated blue warbler, eastern massasauga rattlesnake, mallard, pileated woodpecker, turkey, deer, wood thrush, and wood duck. Much of this area supports second growth northern hardwoods, along with some scattered aspen cuts. The Rapid River flows through this compartment with over 1.8 miles of stream frontage, creating a valuable riparian corridor through an otherwise dry landscape. Cedar is the dominant cover type along the river and provides valuable winter habitat for many species of wildlife.

Ice block depressions tend to collect or funnel cold air, which can restrict plant growth, and therefore most of these cold air "sinks" support open or semi-open communities. Some of these depressions may contain poorly drained organic soils. Selective cutting of woody encroachment, pruning of remnant orchard trees, grass planting, and a prescribed burn have been proposed for opening management projects.

In hardwoods care should be taken to maintain age and tree species diversity within the northern hardwood stands, and over this landscape. Hardwood treatments should retain a component of mature mast producing trees and protect/create snags, den, cavity, and downed trees. Forest interior species utilize large tracts of hardwoods with relatively few and/or small canopy gaps. When treating such tracts care should be taken in designing the treatment to prevent fragmentation and too much access by edge predators to the forest interior.

Future management of the several pine plantations here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity.

### **Mineral Resource and Development Concerns and/or Restrictions**

A sand/gravel pit is located less than one mile to the southwest, and there is good potential for sand & gravel within the compartment. The compartment is located between the current extents of the Niagaran reef play (to the southeast) and the Antrim Shale gas play (to the northwest). There has not been any production to date within the compartment, but there have been a number of dry well tests, mostly Niagaran. There are a number of active leases within the compartment. There are active gas storage fields a couple of miles to the southeast. There may be potential for additional gas storage within the Niagaran in this area. The Niagaran reefs have also been tested for CO2 sequestration. There is no known metallic mineral potential in this part of the state.

### **Vehicle Access:**

There is good access throughout the compartment.

### **Survey Needs:**

If there is no private survey work that has been done on parcels in sections 22 & 23 a survey request will need to be submitted.

### **Recreational Facilities and Opportunities:**

Leetsville a designated 50" ORV Trail occurs in section 23. Dispersed hunting and trapping in the compartment due to the proximity of private land, and rapid river.

### **Fire Protection:**

The DNR Kalkaska Field Office would provide initial fire response with support from the Kalkaska Fire Department. The mainly hardwood cover types do not pose a significant risk for fire.

### **Additional Compartment Information:**

**The following reports from the Inventory are attached:**

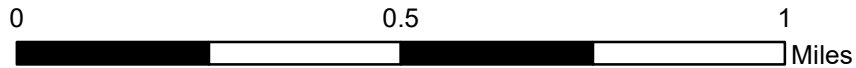
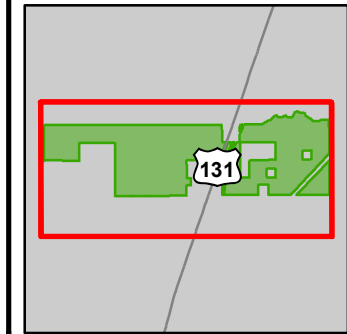
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

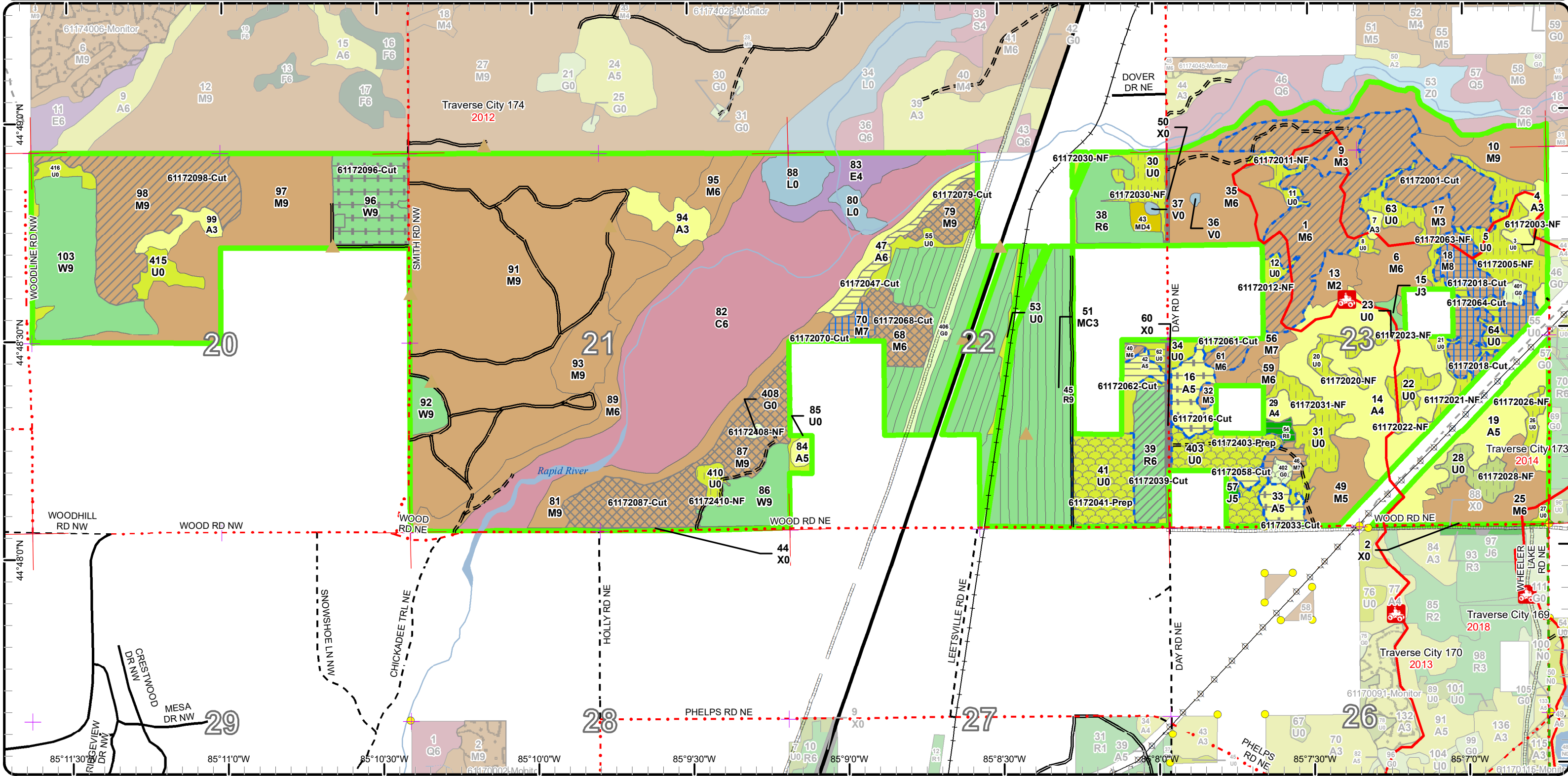
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 172  
 T28N - R07W Sec. 19-23  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Williamsburg Moraine  
 YOE: 2020  
 Acres: 1,868 GIS Calculated  
 Examiner: Steve Crigier  
 Map Revised: 10/11/2018  
 Map Phase: Post - Maps



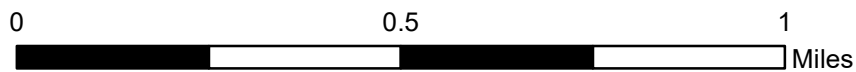
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - County - Gravel Road
- - Private - Dirt / Gravel Road
- == DNR - Forest Access Route
- Active Railroads
- ORV Trails
- Designated Hiking Trails
- Designated ATV Trails
- ▲ Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes



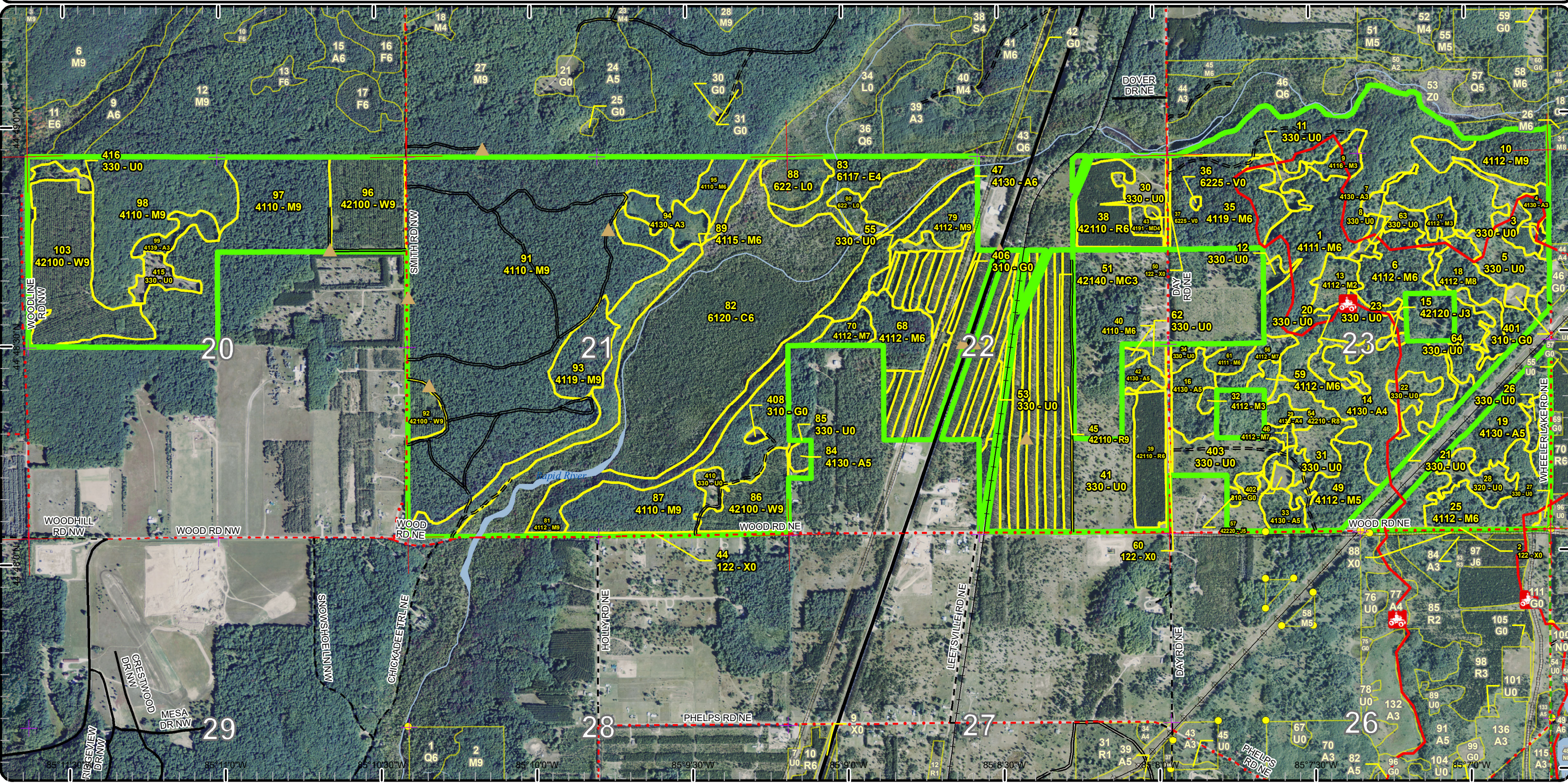
# Stand Boundary Map

Compartment: 172  
 T28N - R07W Sec. 19-23  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Williamsburg Moraine  
 YOE: 2020

Acres: 1,868 GIS Calculated  
 Examiner: Steve Crigier  
 Map Revised: 10/11/2018  
 Map Phase: Post - Maps

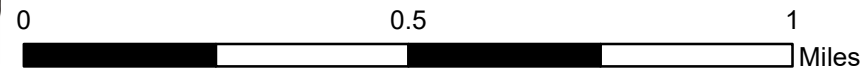


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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- Federal / State Highway
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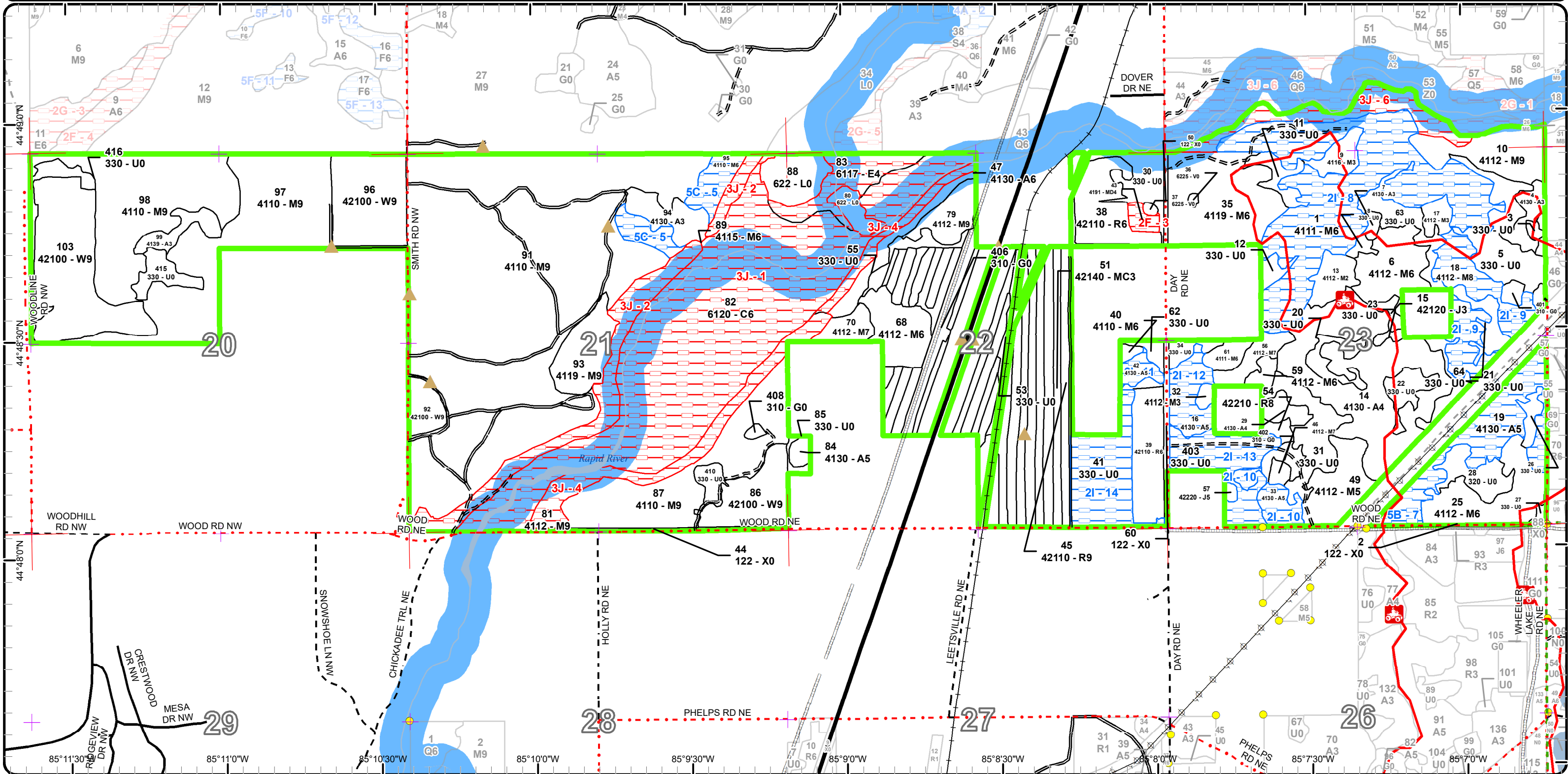


# Special Conservation Areas & Site Conditions Map

Compartment: 172  
 T28N - R07W Sec. 19-23  
 County: Kalkaska  
 Unit: Traverse City  
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 YOE: 2020  
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- Active Railroads
- 🚲 ORV Trails
- Designated Hiking Trails
- Designated ATV Trails
- ▲ Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	11	16	70	15	52	13	0	0	0	0	0	0	0	0	0	0	176
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	203	0	0	0	0	203
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
Lowland Deciduous	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	2	18	0	0	0	0	50	415	0	0	0	0	0	0	0	428	913
Planted Mixed Pines	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Red Pine	0	0	0	0	39	0	0	90	2	0	0	0	0	0	0	0	0	0	131
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0	0	110
<b>Total</b>	<b>250</b>	<b>0</b>	<b>13</b>	<b>99</b>	<b>113</b>	<b>15</b>	<b>52</b>	<b>213</b>	<b>52</b>	<b>432</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>203</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>428</b>	<b>1868</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2020

Acres of Harvest

Compartment 172  
Total Compartment Acres: 1,868

Commercial Harvest - 225  
Harvests with Site Condition - 157  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	15	0	0	0	0	19	0	0		34
Jack Pine	1	0	0	0	0	0	0	0		1
Low-Density Trees	10	0	0	0	0	0	0	0		10
Northern Hardwood	4	79	0	34	0	167	0	0		284
Red Pine	2	0	0	0	0	19	0	0		21
White Pine	0	0	0	0	0	31	0	0		31
<b>Total</b>	<b>32</b>	<b>79</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>186</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>381</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	381	51	0	0	0	0	0	115		547
Next Step	0	85	68	0	68	265	0	0		486
<b>Total</b>	<b>381</b>	<b>136</b>	<b>68</b>	<b>0</b>	<b>68</b>	<b>265</b>	<b>0</b>	<b>115</b>	<b>0</b>	<b>1033</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	61172001-Cut	98.7	4111 - S.Maple, Hard Mast Association	Poletimber Well	81	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Approved Proposal

**Habitat Cut: No Site Condition: Survey Needed**

Prescription Thin stand down to a BA of about 80 sqft/ac. Use general hardwood marking practices. Identify a few areas (~1 acre in size) to do a mini clearcut/regen gap. Remove most of the Beech as BBD is present and spec out the aspen and ironwood.

Next Step  
Treatments:

Acceptable  
Regen:

Other there are some areas of lower stocking, also some areas of younger pole/sapling timber.

Comment:

Proposed Start Date: 10/1 /2019

3	61172003-NF	1.1	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

5	61172005-NF	21.6	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8 61172008-NF	1.6	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

11 61172011-NF	5.7	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

12 61172012-NF	2.8	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
16	61172016-Cut	12.5	4130 - Aspen	Poletimber Medium	62	1-50	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	Approved Proposal

**Habitat Cut: No**                      **Site Condition: Survey Needed**

Prescription Overstory removal. Leave some scattered sugar maple as a seed source and protect the advanced regeneration. MO of Hwds. Bark slip spec  
Specs: for the saplings. Line out solid pockets of M3.

Next Step  
Treatments:

Acceptable aspen, red maple, sugar maple, cherry.  
Regen:

Other Need corners put in.  
Comment:

Proposed Start Date: 10/1 /2019

18	61172018-Cut	27.9	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	81	51-80	Harvest	Seed Tree	411 - Northern Hardwood	Even-Aged	Approved Proposal
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**Habitat Cut: No**                      **Site Condition: Survey Needed**

Prescription Seed tree by mark to leave some of the large poor quality sugar maple as a seed source. 2" cutting spec. Try to encourage scarification with  
Specs: the cutting specs.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable maple, cherry, basswood, aspen.  
Regen:

Other Maple are large/open grown and of medium to poor quality. Stocking is variable There is a fair amount of aspen in this stand, some in clones,  
Comment: some a scattered individual trees. Stand appears to be two-aged. Lots of ironwood, some is merchantable but a lot in the 3-4" range. Looks like we might need the surveyors to put in some corners around the private property.

Proposed Start Date: 10/1 /2019

20	61172020-NF	6.0	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or  
Specs: conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
21 61172021-NF	5.2	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
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Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

22 61172022-NF	6.7	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

23 61172023-NF	1.3	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26 61172026-NF	3.4	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

28 61172028-NF	9.9	320 - Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

30 61172030-NF	14.1	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
31	61172031-NF	17.1	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.  
Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

33	61172033-Cut	6.7	4130 - Aspen	Poletimber Medium	42	51-80	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition: Survey Needed**

Prescription overstory removal. Protect the maple regen and mark some sugar maple to leave for a seed source. Bark slip restriction for the maple  
Specs: saplings??

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

39	61172039-Cut	18.8	42110 - Planted Red Pine	Poletimber Well	32	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription 3rd row thin the stand.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other Mostly 3 stick trees, some 4 sticks. About 40% live crown on the trees. Some porcupine damage. Nice straight rows with good spacing. BAs  
Comment: (180, 190, 190).

Proposed Start Date: 10/1 /2019

40	61172040-Cut	1.3	4110 - Sugar Maple Association	Poletimber Well	72	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Thin stand down to 80sqft/ac.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	61172041-Prep	25.2	330 - Low-Density Trees	Nonstocked		Unspecified	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Approved Proposal

**Habitat Cut:** No      **Site Condition:** Survey Needed

Prescription Might have to have some of the larger trees cut down first then roller chop, trench and plant red pine.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial  
Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

42	61172042-Cut	4.4	4130 - Aspen	Poletimber Medium	42	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut:** No      **Site Condition:** Survey Needed

Prescription clearcut, chop, trench and plant to red pine.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);  
Treatments: Pesticide, Aerial

Acceptable red pine

Regen:

Other

not sure if corners are in.

Comment:

Proposed Start Date: 10/1 /2019

46	61172046-Cut	4.1	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	79	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Clearcut, chop, trench and plant red pine.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);  
Treatments: Pesticide, Aerial

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

47	61172047-Cut	8.7	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Approved Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription Clearcut what is feasible on top of the bluff and make sure bmps are applied so there is no threat of erosion into the Rapid river. Leave small fir and retentions in gulches/drainages and on the slope to the west.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, cherry, fir, white pine.

Regen:

Other

Nice clones of bigtooth in the south end turning to poor quality aspen in the north.

Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
54	61172054-Cut	2.3	42210 - Natural Red Pine	Sawtimber Medium	72	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription clearcut, chop, trench and plant red pine.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);  
Treatments: Pesticide, Aerial

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

57	61172057-Cut	1.0	42220 - Natural Jack Pine	Poletimber Medium	35	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription clearcut, chop, trench and plant to red pine.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring,  
Treatments: Artificial Regen(3yr)

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

33	61172058-Cut	1.8	4130 - Aspen	Poletimber Medium	42	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition: Survey Needed**

Prescription Clearcut, chop, trench and plant to red pine.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);  
Treatments: Pesticide, Aerial

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

61	61172061-Cut	4.7	4111 - S.Maple, Hard Mast Association	Poletimber Well	81	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition: BMPs**

Prescription 1st thinning on this stand. Take BA down to 70-80sqft/ac.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
62	61172062-Cut	3.7	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut, chop, trench and plant to red pine.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);  
Treatments: Pesticide, Aerial

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

63	61172063-NF	10.9	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Specs: Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

64	61172064-Cut	6.3	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription clearcut the scattered timber out of the opening along with stand 18.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable grass

Regen:

Other

Please leave scattered mature cherry for mast production. -4/17/18

Comment:

Proposed Start Date: 10/1 /2019





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
68	61172068-Cut	16.5	4112 - Maple, Beech, Cherry Association	Poletimber Well	83	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Thin stand down to about 80sqft/ac. Create a few regen gaps every 2 or 3 acres.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, cherry, basswood, aspen.

Regen:

Other Not sure if corners are in.

Comment:

Proposed Start Date: 10/1 /2019

70	61172070-Cut	6.4	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	83	1-50	Harvest	Seed Tree	411 - Northern Hardwood	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Mark some scattered maple for seed and harvest the rest to restart the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, basswood, cherry, aspen.

Regen:

Other Semi-open area with clumps of witch hazel and large open grown maple. Some cherry filling in the canopy gaps

Comment:

Proposed Start Date: 10/1 /2019

79	61172079-Cut	10.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Thin stand down to 80sqft/ac. Create a regen gap every couple of acres.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, cherry, birch, basswood.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

87	61172087-Cut	51.9	4110 - Sugar Maple Association	Sawtimber Well	81	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription 2nd thinning of the stand. Take BA down to around 80 and create a good sized regen gap every 2 or 3 acres. Run red line at the top of the bluff.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, cherry, basswood, birch

Regen:

Other Stand was thinned in 2004 (TS# 61-001-03-1). Overall decent quality hardwoods on some rolling terrain that gets a bit steep in the north end of the stand. A good amount of cherry regeneration in the understory. BAs (100, 140, 110, 100, 100, 110)

Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
96	61172096-Cut	30.7	42100 - Planted White Pine	Sawtimber Well	61	111-140	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	Approved Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Remove the white pine overstory and protect the advanced maple regen as best we can. Leave retention as scattered pine or as an area  
Specs: (around the homestead site).

Next Step  
Treatments:

Acceptable  
Regen:

Other An old homestead foundation is located along the roadway and should not be disturbed.  
Comment:

Proposed Start Date: 10/1 /2019

98	61172098-Cut	62.2	4110 - Sugar Maple Association	Sawtimber Well	81	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Thin stand down to 80sqft/ac. Create some regen gaps every couple of acres. Access is off Smith Rd.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other No records of this stand being thinned before. Mediocre quality hardwoods. Some scattered aspen, also pockets of wind throw along the west  
Comment: side of the stand. BAs (100, 110, 140, 160, 120).

Proposed Start Date: 10/1 /2019

401	61172401-NF	2.1	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Brush Cutting		3205 - Mixed Upland Shrub		Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or  
Specs: conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Work with FRD to find opportunities to expand these U stands into adjacent forested stands where stocking is low, or unmerchantable woody species could be thinned or removed. The expansion of these U types should be designed to improve efficiency of opening management. May need to control bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

402	61172402-Prep	2.0	310 - Herbaceous Openland	Nonstocked	Unspecified	SitePrep	Roller Chopping		4211 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription site prep, trench and plant red pine.  
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial  
Treatments:

Acceptable red pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
403	61172403-Prep	23.6	330 - Low-Density Trees	Nonstocked		Unspecified	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Approved Proposal

**Habitat Cut:** No      **Site Condition:** Survey Needed

Prescription Remove as much wood encroachment as possible either with a timber sale or roller chopping. Then trench and plant red pine.  
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable red pine  
Regen:

Other Need to get surveyors out to put corners on the private property.  
Comment:

Proposed Start Date: 10/1 /2019

408	61172408-NF	1.0	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		Approved Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

410	61172410-NF	4.1	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		Approved Proposal
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**Habitat Cut:** No      **Site Condition:**

Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment Acreage Proposed: 546.7**

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 172

Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				2I	5B	5C	2F	3J
177	109	<b>59</b>		8	Aspen	<b>25</b>	<b>34</b>			8
1	1	<b>0</b>		0	Bog					
203	0	<b>0</b>		203	Cedar					203
16	16	<b>0</b>		0	Herbaceous Openland					
3	3	<b>0</b>		0	Jack Pine					
192	141	<b>52</b>		0	Low-Density Trees	<b>52</b>				
17	0	<b>0</b>		17	Lowland Deciduous					17
18	18	<b>0</b>		0	Lowland Shrub					0
3	0	<b>0</b>		3	Mixed Upland Deciduous				3	
912	674	<b>142</b>		96	Northern Hardwood	<b>127</b>		<b>16</b>		96
63	63	<b>0</b>		0	Planted Mixed Pines					
131	131	<b>0</b>		0	Red Pine					
10	10	<b>0</b>		0	Upland Shrub					
12	12	<b>0</b>		0	Urban					
110	110	<b>0</b>		0	White Pine					
1,868	1,288	<b>253</b>		327	Total Forested Acres	<b>204</b>	<b>34</b>	<b>16</b>	3	324
	69%	<b>14%</b>		18%	Relative Percent					

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	219	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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Steve Crigier : Examiner

Compartment: 172

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3	<b>Unavailable</b>	<b>2F: Too steep</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	33	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	21	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>2I: Survey needed</b>	99	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Coded at Pre-Review. Nate							
9	<b>Available</b>	<b>2I: Survey needed</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Coded at Pre-Review. Nate							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Steve Crigier : Examiner

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Year of Entry: 2020

10	<b>Available</b>	<b>2I: Survey needed</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Coded at Pre-Review. Nate							
11	<b>Available</b>	<b>2I: Survey needed</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Coded at Pre-Review. Nate							
12	<b>Available</b>	<b>2I: Survey needed</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Coded at Pre-Review. Nate							
13	<b>Available</b>	<b>2I: Survey needed</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Coded at Pre-Review. Nate							
14	<b>Available</b>	<b>2I: Survey needed</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4111 - S.Maple, Hard Mast Association	Poletimber Well	119.5	81	111-140	Medium quality timber on rolling terrain. Some pockets of young pole timber. BBD is present in the stand. BAs 130, 110, 110, 140, 80, 140, 110.
4	4130 - Aspen	Sapling Well	7.7	28	Immature	Well stocked. The bigtooth clones are almost pole sized. Trees are 30-40' tall. Moare quaking at the north end of the stand.
6	4112 - Maple, Beech, Cherry Association	Poletimber Well	19.4	81	51-80	Medium/poor quality hardwoods that was thinned in 2014 (Hidden Hardwoods 61-064-10-01). Lots of ironwood in the understory. Stocking is patchy. Sugar maple regen along the edges of the UO types. Patches of younger red maple pole timber.
7	4130 - Aspen	Sapling Well	1.6	28	Immature	Trees are 30-40' tall, starting to convert to pole sized trees. Quite a few crooked stems.
9	4116 - Mixed N. Hardwood - Aspen	Sapling Well	6.3	28	Immature	Well stocked. Some of the aspen is 30-40' tall. A good mix of hardwood species.
10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	22.2	81	81-110	Good quality hardwoods, unfortunately it has suffered some heavy wind damage. Stand was thinned in 2014 Hidden hardwoods 61-064-10-01. Lots of ironwood filling in the understory : ( . Small M3 pocket down in the bowl.
13	4112 - Maple, Beech, Cherry Association	Sapling Medium	8.0	26	Immature	Trees are about 20' tall. Stocking is patchy. There is a good amount of maple along the edges of the stand. 5000 hybrid aspen were planted in June of 1992 in an attempt to convert the stand from hardwood. Planting survival was low. There is some Hard Maple and Cherry 10-20 feet tall. Heavy raspberry in many areas. Several aspen appear to have insect or disease problem since bulges are occurring in the main stem and stems are breaking at that point on the stem. (Rouston)
14	4130 - Aspen	Poletimber Poor	65.3	32	1-50	Aspen is maybe 3 sticks tall and is already declining. Understory is thick with maple!! A4 over M3.
15	42120 - Planted Jack Pine	Sapling Well	2.1	26	Immature	10/1998 Machine planted in May 1992 12x6. In October 1993 one or two acorns were hand planted next to each Jack Pine seedling. Acorns planted 2"-3" deep. (Rouston)
16	4130 - Aspen	Poletimber Medium	12.5	62	1-50	Poor quality quaking aspen, a few clones of bigtooth. Understory is a nice mix of hardwoods.
17	4112 - Maple, Beech, Cherry Association	Sapling Well	4.1	25	1-50	Stand is highly variable. Mostly scattered large maple trees that have seeded in a thick understory of maple and cherry. Lots of size/age classes.
18	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	27.9	81	51-80	Maple are large/open grown and of medium to poor quality. Stocking is variable There is a fair amount of aspen in this stand, some in clones, some a scattered individual trees. Stand appears to be two-aged. Lots of ironwood, some is merchantable but a lot in the 3-4" range. BAs 90, 100, 130, 60



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4130 - Aspen	Poletimber Medium	33.7	50	1-50	Poor quality aspen with lots of sugar maple in the understory! Maybe 5-10 cords/acre of aspen. There are a few areas where there is no overstory that are M3 pockets.
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	23.6	79	81-110	Medium quality hardwoods. Stocking is variable with some M3 pockets and clones of aspen. BAs 80, 120, 90, 100, 80.
29	4130 - Aspen	Poletimber Poor	4.8	32	1-50	Declining aspen that is nursing along nice maple regen. aspen is 2-3 sticks tall.
32	4112 - Maple, Beech, Cherry Association	Sapling Well	1.7	18	Immature	Nice quality maple that is about 20' tall. Some scattered pole size aspen. age is not on the aspen but MIFI makes me put an age on the aspen.
33	4130 - Aspen	Poletimber Medium	8.4	42	51-80	Medium-poor quality aspen over advanced maple regen.
35	4119 - Mixed Northern Hardwoods	Poletimber Well	41.8	81	81-110	Stand is on some rolling terrain that is steep in some areas. Medium quality timber, stocking is pretty variable. BAs (80, 150, 130, 80, 150). There is a decent amount of sugar maple regen, mostly in the northern 1/2 of the stand. Leetsville ORV trail runs through the stand. Stand was thinned in 2002 TS# 066-00-1
38	42110 - Planted Red Pine	Poletimber Well	20.3	32	141-170	Red Pine planted in 1989 3-0 stock. Trees are 2-3 stick tall, good density and they are putting on 12-18" of height/yr. Stand is on some rolling terrain.
39	42110 - Planted Red Pine	Poletimber Well	18.8	32	171-200	Mostly 3 stick trees, some 4 sticks. About 40% live crown on the trees. Some porcupine damage. Nice straight rows with good spacing. BAs (180, 190, 190).
40	4110 - Sugar Maple Association	Poletimber Well	1.3	72	81-110	Nice quality pole stand.
42	4130 - Aspen	Poletimber Medium	4.4	42	1-50	Poor Quality aspen, some of which is falling over. Hardwoods filling in the understory.
43	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	3.1	30	1-50	Opening that is filling in. Lots of size/age classes. On a pretty steep slope.
45	42110 - Planted Red Pine	Sawtimber Well	89.7	67	111-140	Stand has been thinned 3 times, (1990, 2003 and 2013). Nice looking plantation. Trees on the west side of 131 are 6-7 sticks tall and has a bit more hardwood in the understory. The trees on the west side are 5-6 sticks tall and has a pretty clean understory.
46	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	4.1	79	1-50	Large open grown maple.
47	4130 - Aspen	Poletimber Well	17.6	58	81-110	Steep slope down to the river. Sometimes lots of aspen, sometimes lots of red maple. Nice quality Bigtooth at the south end that turns to lower quality Quaking at the north.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4112 - Maple, Beech, Cherry Association	Poletimber Medium	17.6	79	51-80	Stand is a mix of young pole timber and scattered large limby trees. Pretty poor quality and has a thick ironwood understory.
51	42140 - Planted Mixed Pine	Sapling Well	63.1	27	51-80	J3-R3 at this time. Part of the stand is getting close to the pole size trees. (BA 80, 70, 60, 30). The strips east of 131 seems to have more of a jack pine component and small diameters while the strips west of 131 is more red pine and diameters around 5-6". Jack pine is natural regeneration. Planted in 1994 with 3-0 Red Pine stock from Needlefast Nursery, Scottville on May 16, 1994. 48,000 trees/60 acres. Lots of natural Jack Pine reproduction especially along East edges of North/South strips. Some hardwood patches coming in too.
54	42210 - Natural Red Pine	Sawtimber Medium	2.3	72	51-80	
56	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	7.3	81	1-50	Stand is scattered large maple trees with pockets of aspen over sugar maple regen (M3).
57	42220 - Natural Jack Pine	Poletimber Medium	1.0	35	1-50	Scrubby jack pine that is filling in the opening.
59	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.3	71	51-80	Stand has some good quality sugar maple stems, just a bit on the small side. Some pockets of aspen.
61	4111 - S.Maple, Hard Mast Association	Poletimber Well	4.7	81	111-140	Medium quality timber on rolling terrain. Some pockets of young pole timber. BBD is present in the stand. BAs 130, 110, 110, 140, 80, 140, 110. Same stand as '1' just separated by the private property.
68	4112 - Maple, Beech, Cherry Association	Poletimber Well	16.5	83	111-140	Nice quality pole timber, stand was thinned in 2004. BAs (110, 140, 140). Some cherry regen showing up in the understory. Unfortunately some ironwood as well.
70	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	6.4	83	1-50	Semi-open area with clumps of witch hazel and large open grown maple. Soom cherry filling in the canopy gaps.
79	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.7	81	111-140	Decent quality hardwoods thinned in 2004. Some small pockets of windthrow. Pockets of cherry in the understory. BAs (90, 110, 130).
81	4112 - Maple, Beech, Cherry Association	Sawtimber Well	24.1	83	111-140	Nice quality hardwoods on a bluff over the Rapid River. Some scattered hemlock. Steep slopes make this stand valuable as a filtration strip alongside the Rapid River corridor.
82	6120 - Lowland Cedar	Poletimber Well	202.6	128	141-170	Deeryard with Rapid River flowing through the stand. Stand has abrupt bluffs on both sides of it. Lots of seep and a tributary creek on the east side of stand. Some areas have more of a spruce and fir component. Nice Cedar Logs in areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
83	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	16.9	81	1-50	4/17/2008 A beaver flooding took place in 3 parts of this stand between January of 1988 & the inventory taken in 1998. Looking at the photos it looked flooded in 1998 but now does not have any floodings. The 1998 inventory alludes to a change but must have never entered the stand. Will keep this as one stand, an E-type, but has 3 old beaver floodings now dry. (Grieve) 10/1998 Former stand 27 during 1990 YOE records. This stand needs closer examination. Data from old records is suspect. This area is very wet in some places and the stand serves as a buffer to the Rapid River corridor. (Rouston)
84	4130 - Aspen	Poletimber Medium	2.5	45	51-80	Patchy stocking of aspen with white pine and balsam fir filling in the understory. Scotch pine on the edges of the stand. Aspen is about 5 sticks tall, Maybe 25-30 cords on this piece.
86	42100 - Planted White Pine	Sawtimber Well	20.0	60	111-140	Stand was planted in spring of 1960 with 2-0 & 3-0 stock. Stand has been row thinned 2 times once in 2003 and then again in 2012. Overstory has some individual and small pocket mortality, and is overall of poor form. The understory is filling in with a mix of pine and hardwoods.
87	4110 - Sugar Maple Association	Sawtimber Well	51.9	81	81-110	Stand was thinned in 2004 (TS# 61-001-03-1). Overall decent quality hardwoods on some rolling terrain that gets a bit steep in the north end of the stand. A good amount of cherry regeneration in the understory. BAs (100, 140, 110, 100, 100, 110)
89	4115 - Y.Birch, Hemlock NH	Poletimber Well	36.1	81	111-140	This corridor consists of a steep forested slope with a South/SouthEast aspect. There is a balsam fir sapling understory. It is an important buffer to the Rapid River bottomlands which are directly adjacent. Slope is about 45-50 feet from the top to the bottom and the stand is approximately three chains wide. The timber on this site is somewhat smaller in diameter than that in the similar stand adjacent (std 61) and to the southwest. Any erosion in this buffer zone would threaten the river area with sediments. A road that is at the bottom of the ridge in this stand should be closed and rehabilitated.
91	4110 - Sugar Maple Association	Sawtimber Well	285.2	81	81-110	Stand was thinned and sale was complete in the summer of 2013. Decent quality hardwoods. Scattered individual tree mortality. Lots of ironwood in the understory. BAs (110, 80, 70, 90, 90, 80, 80, 80).
92	42100 - Planted White Pine	Sawtimber Well	7.8	61	111-140	Stand was planted in spring 1960 with 3-0 stock. One quarter of the stand was replanted in 1966 with 3-0 stock. Rows are planted North/South. Evidence of weevil damage is still apparent. Stand was thinned in 2003 (TS# 026-00-1) and then again in 2012 (Homestead white Pine). The old aerial photos show that this spot was once an orchard. Stand has a lot of sugar maple established in the understory.
93	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.3	81	81-110	Stand thinned in 2004 (TS# 61-001-03-1). There is some individual tree mortality, but overall good quality hardwoods. Heavy ironwood understory. BAs (100, 80, 100, 110).
94	4130 - Aspen	Sapling Well	11.1	13	Immature	Stand was cut in 2005 (TS# 61-002-03-1) Stand is in a bit of a valley. Aspen is about 20' tall. Good stem density. More of a hardwood component along the edges of the stand.

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Traverse City Mgt. Unit

## Report 7 – Forested Stands

Compartment: 172  
Year of Entry: 2020

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
95	4110 - Sugar Maple Association	Poletimber Well	15.6	81	111-140	Stand is nice quality hardwoods and has not been thinned before. The terrain is a bit hilly but looks operable.
96	42100 - Planted White Pine	Sawtimber Well	31.6	61	111-140	White pine planted in spring of 1960 (2-0 & 3-0 stock). Some replanting in 1963 and 1966 (3-0 stock). Stand was 3rd row thinned in 2002-2003 (TS# 026-00-1) and then again in 2012. An old homestead foundation is located along the roadway and should not be disturbed. A few Red Pine mixed in. Evidence of weevil damage in the past. Understory has a good mix of species and quite a bit of sugar maple. Overstory is a lot of multi-topped white pine 5-6 sticks tall.
97	4110 - Sugar Maple Association	Sawtimber Well	73.6	81	81-110	Stand was initially thinned in 1992-1993 (TS# 17-91-1) and then again in 2012 (hornbeam Hardwoods' 61-052-12-01). Nice quality maple in the overstory, some scattered large hemlock trees. 6-7 stick hardwood trees with 2-3 logs in them. Very heavy ironwood in the understory. BAs (80, 90, 90, 80)
98	4110 - Sugar Maple Association	Sawtimber Well	62.2	81	111-140	No records of this stand being thinned before. Mediocre quality hardwoods. Some scattered aspen, also pockets of wind throw along the west side of the stand. BAs (100, 110, 140, 160, 120).
99	4139 - Aspen, Mixed Deciduous	Sapling Well	7.1	26	Immature	Stand was clearcut in 1991, TS# 34-90-1. (Rouston) Aspen is almost pole size. Well stocked stand, more of a hardwood component on along the edges of the stand.
103	42100 - Planted White Pine	Sawtimber Well	50.3	60	111-140	Stand was first row thinned in 2003 TS#026-00-01 and thinned again in 2012 'Homestead White pine. Understory is filling in with white pine, sugar maple and beech. Not great quality in the white pine, most of it is 5-6 sticks. Some individual dieback and small pocket mortality.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	122 - Road/Parking Lot	1.3	No	
3	330 - Low-Density Trees	1.1	No	
5	330 - Low-Density Trees	21.6	Yes	Upland area w/scattered black cherry trees on rolling terrain. Hard Maple saplings are invading the edges of the opening and they are coming in under the crowns of the cherry. Lots of bracken fern appears to occupy the site but it is hard to tell due to the snowcover.
8	330 - Low-Density Trees	1.6	No	
11	330 - Low-Density Trees	5.7	No	
12	330 - Low-Density Trees	2.8	No	
20	330 - Low-Density Trees	6.0	No	
21	330 - Low-Density Trees	5.2	No	
22	330 - Low-Density Trees	6.7	No	
23	330 - Low-Density Trees	1.3	No	
26	330 - Low-Density Trees	3.4	No	Upland area w/scattered black cherry trees. Hard Maple saplings are invading the edges of the opening and they are coming in under the crowns of the cherry. Lots of bracken fern appears to occupy the site.
27	330 - Low-Density Trees	1.0	No	
28	320 - Upland Shrub	9.9	No	Typical U stand for this county except there is more open grass area included. Cherry and Hard Maple poles are scattered and a fair amount of bracken fern is found here. (Rouston)
30	330 - Low-Density Trees	14.1	No	Old homestead. Heavy snowmobile use. Old concrete foundation is on this site.
31	330 - Low-Density Trees	17.1	Yes	
34	330 - Low-Density Trees	3.6	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
36	6225 - Bog	0.5	No	10/98 Vernal Pond. Pothole at the bottom of steep slopes - typically holds water into early summer - dry this year. Mostly marsh grasses with some leatherleaf. Must protect from sedimentation by using a filtration zone around the perimeter of the stand when thinning is done in hardwood stand that surrounds this vernal pond. (Rouston)
37	6225 - Bog	0.7	No	
41	330 - Low-Density Trees	28.2	No	Opening seeding in with white pine and cherry. There is a quite a bit of pole size trees but I don't think there is enough for a timber sale.  OPIC - FMD: 12/17/2008 From compartment review; plant to red pine leaving 1/3 of total area open.
44	122 - Road/Parking Lot	4.5	No	
50	122 - Road/Parking Lot	1.7	No	
53	330 - Low-Density Trees	3.6	No	
55	330 - Low-Density Trees	5.0	No	OPIC - FMD: 3/12/2008 Still the same. (Grieve) 10/98 Grass opening filling in around the edges with Q. Aspen. Steep slope on NW side down to conifer/hardwood mix. Plenty of witch hazel. Some Black Cherry and Hard Maple scattered. Could cut aspen now or in 10 years along the NW edge and over the bank. (Rouston)
60	122 - Road/Parking Lot	4.2	No	
62	330 - Low-Density Trees	3.7	No	Opening seeding in with white pine and cherry. There is a quite a bit of pole size trees but I don't think there is enough for a timber sale.  OPIC - FMD: 12/17/2008 From compartment review; plant to red pine leaving 1/3 of total area open.
63	330 - Low-Density Trees	10.9	Yes	Upland area w/scattered black cherry trees. Hard Maple saplings are invading the edges of the opening and they are coming in under the crowns of the cherry. Lots of bracken fern appears to occupy the site but it is hard to tell due to the snowcover. (Rouston)
64	330 - Low-Density Trees	6.3	Yes	Upland area w/scattered black cherry trees. Hard Maple saplings are invading the edges of the opening and they are coming in under the crowns of the cherry. Lots of bracken fern appears to occupy the site but it is hard to tell due to the snowcover.
80	622 - Lowland Shrub	5.5	No	A beaver flooding took place in stand between January of 1988 & the inventory taken in 1998. Looking at the photos it looked flooded in 1998.
85	330 - Low-Density Trees	1.3	No	OPIC - FMD: 4/31/2008 This land should be sold along with stand 84. (Grieve)



Stand	Cover Type	Acres	Managed Site	General Comments:
88	622 - Lowland Shrub	13.0	No	A beaver flooding took place between January of 1988 & the inventory taken in 1998. Looking at the photos it looked flooded in 1998.
401	310 - Herbaceous Openland	2.1	No	Some knapweed, to much snow to see how much. Former well drilling site that is now restored to a grassy opening.
402	310 - Herbaceous Openland	2.0	Yes	Abandon well site, to much snow to see ground cover.
403	330 - Low-Density Trees	23.6	Yes	Opening with scattered Black Cherry and a few wolfy Hard Maple sawlog size trees.
406	310 - Herbaceous Openland	10.9	No	Pipeline ROW
408	310 - Herbaceous Openland	1.0	No	OPIC - FMD: 3/12/2008 Old well site, very bad subsidence on three sides, check with wildlife for treatment. (Grieve) 10/98 Old well-site, now grassy opening. Good site for Wildlife planting if desired. (Rouston)
410	330 - Low-Density Trees	4.1	Yes	Hilly, some scattered maple & cherry. Staghorn sumac on top of hill. Check when snow is off for ORV problems. (Grieve) 10/1998 Grass opening with some cherry mostly at the North end. Rolling topography with some trash in the form of a couple old car bodies. Sign of an old fire - plow furrows at the North end. (Rouston)
415	330 - Low-Density Trees	7.0	Yes	OPIC - FMD: 2008 Fill in gaps in planting with seedlings. (Wildlife) 3/17/2008 Red pine has been planted on the edge of this stand in the SE corner next to the hardwoods. Looks like about 8 years ago. (Grieve) 10/98 Grass opening with scattered cherry poles. Maintain as natural opening. Edges are clean yet (no invasions). (Rouston)
416	330 - Low-Density Trees	7.4	No	OPIC - FMD: 3/17/2008 This was a gas well pad which was cleared but never drilled in the NE part of this stand. The rest is just edge that keeps filling in.