



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61162

Entry Year 2021

Acreage: 1,952

County Kalkaska

Management Area: Boardman Plains

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**Revision Date:** 2019-06-11

**Stand Examiner:** Thomas Peterson III

**Legal Description:**

T27N,R7W, Sec. 19 & T27N,R8W, Sec. 22, 23, 24

**Identified Planning Goals:**

Maintain timber types and age class diversity throughout the compartment. Protect Boardman River watershed.

**Soil and topography:**

Grayling and Rubicon Sands

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

The city of Kalkaska is one mile north and east of compartment. The north part of section 19 is the Kalkaska Airport. There are a few private blocks of land within the compartment. There are several active oil wells in and around the compartment. Part of the south half of section 19 (63 acres) was acquired by the state about 8 years ago. There are no other desired acquisitions or disposals in this compartment.

**Unique Natural Features:**

Part of the North Branch of the Boardman River is in section 19. The Boardman River falls under the Scenic and Natural Rivers Act. Nothing listed in the Natural Features Inventory

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

No known sites at this time.

**Special Management Designations or Considerations:**

No special management designations or considerations at this time.

**Watershed and Fisheries Considerations:**

The North Branch of the Boardman River runs through this compartment. The Fisheries Division (FD) has a partnership with the Boardman River Restoration Committee. The North Branch of the Boardman River is a designated trout stream. Brown trout and brook trout are present in this stream. This river has suitable water quality, temperature and habitat conditions to support cold-water fish populations. Activities within the watershed should focus on preventing soil erosion, providing shade to keep water temperatures cool and leaving trees along the stream that will become a source for instream woody debris. All of these components are essential for maintaining and enhancing trout populations. In general, leaving 50 to 100 foot buffer strips of vegetation along both sides of the stream will help reduce erosion, provide shading and be a source of instream woody debris.

**Wildlife Habitat Considerations:**

The well drained soils of this compartment predominately support pine communities with some aspen and oak patches mixed in. Forest treatments should maintain a variety of age classes of jack pine and aspen types and promote natural mixtures of uneven-aged pine-aspen-oak, especially in stands on the west end of the compartment, through selective harvest practices. Along the N. Branch Boardman River and tributaries maintain mostly late-successional types but consider some regeneration patches along streams when not in conflict with other riparian objectives. Maintaining scattered grassy openings is also relevant here on this fire driven landscape.

Aspen harvests should retain snags and den trees, leave trees, and downed logs in order to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, and deer. Oak treatments should leave some mature mast-producing trees and protect of den/nest trees while maintaining tree species diversity.

Some species associated with pine-oak-aspen woodlands and/or brushy openings; include red and gray squirrels, wild turkey, white-tailed deer, pine warbler, northern red-bellied snake, northern hognose snake, cedar waxwing, and chipping sparrow.

Compartment 162 is found in the Boardman Plains Management Area (MA) of the Regional State Forest Management

Plan. Featured wildlife species for this MA include bear, pileated woodpecker, ruffed grouse, turkey, and deer. Based on the natural disturbance history of the land type associations within the Boardman Plains MA, the MA plan calls for managing the amount of open/semi-open lands at or above the current level to provide habitat for species which use openings.

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

The state-owned Smith Lake sand & gravel pit is located just north of the compartment, and there appears to be some sand & gravel potential within the compartment. The compartment is within the Niagaran reef trend. Active oil production is occurring within the compartment and most of the state mineral rights are leased and held by production. There may be potential for additional reefs here. Oil & gas potential is considered high. There is also high potential for future underground gas storage in the reefs once the reservoirs have been depleted of hydrocarbons. There is active gas storage leasing in the area. There is no known metallic mineral potential in this part of the state.

### **Vehicle Access:**

Several county roads and gas well roads give great access to this compartment. No new access needed at this time. No roads need to be closed at this time.

### **Survey Needs:**

None at this time.

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

The Boardman Valley Snowmobile Trail and the M.C.C.T. Cycle Trail, which use the same trail, run through this compartment.

### **Fire Protection:**

This compartment is located just west of the Village of Kalkaska and a large fire located in this area would be a serious threat to the residences located along Island Lake Road and West Kalkaska Street. There are also a number of well sites and facilities in this area as well.

Fuel breaks would be beneficial through site conversion along some of the trail or county roads within the area. Placement of these fuel breaks in key locations may allow responding departments to take suppression action by constructing additional fire line or suppression firing.

If and/or when a fire occurs in this area, Urban Interface will be our most serious loss. With the homes that are currently there, plus with new construction over the coming years we should plan ahead when possible. This is a good area with high hazard fuels and high risk. Possible loss is very high. Gate any proposed road closures.

### **Additional Compartment Information:**

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

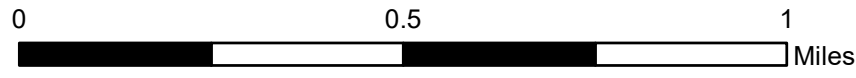
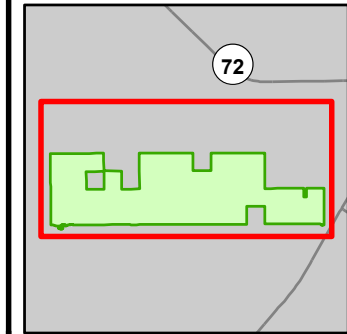
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

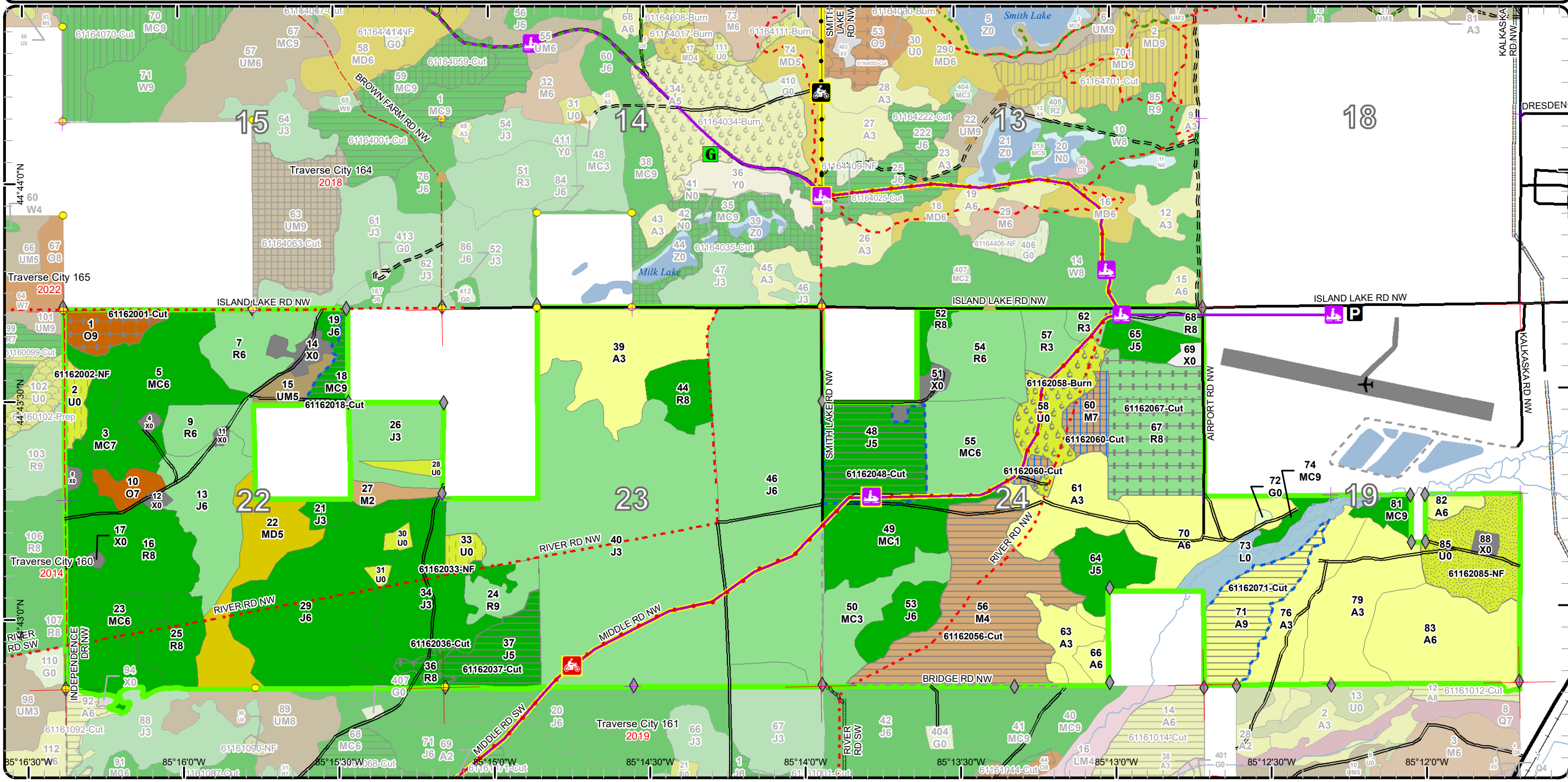
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 162  
 T27N-R07W Sec. 19  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Boardman Plains  
 YOE: 2021  
 Acres: 1,952 GIS Calculated  
 Examiner: Thomas Peterson III  
 Map Revised: 11/6/2019  
 Map Phase: Post Review

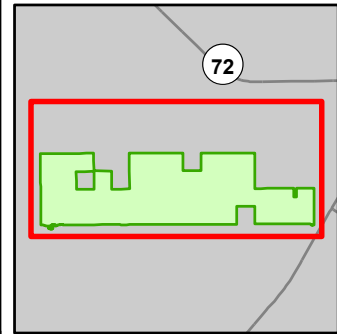
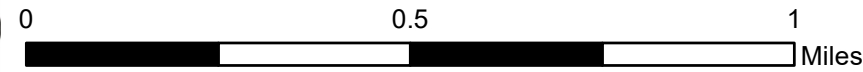


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Motorcycle Trails (SOS License)
- Motorcycle Trails (DNR License)
- MCCCT Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- ORV License
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Airport
- Berms
- Gate
- Parking Lot
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- Seed Tree (w/Reserves)
- Opening Maintenance
- Mowing
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 121 - Airport
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

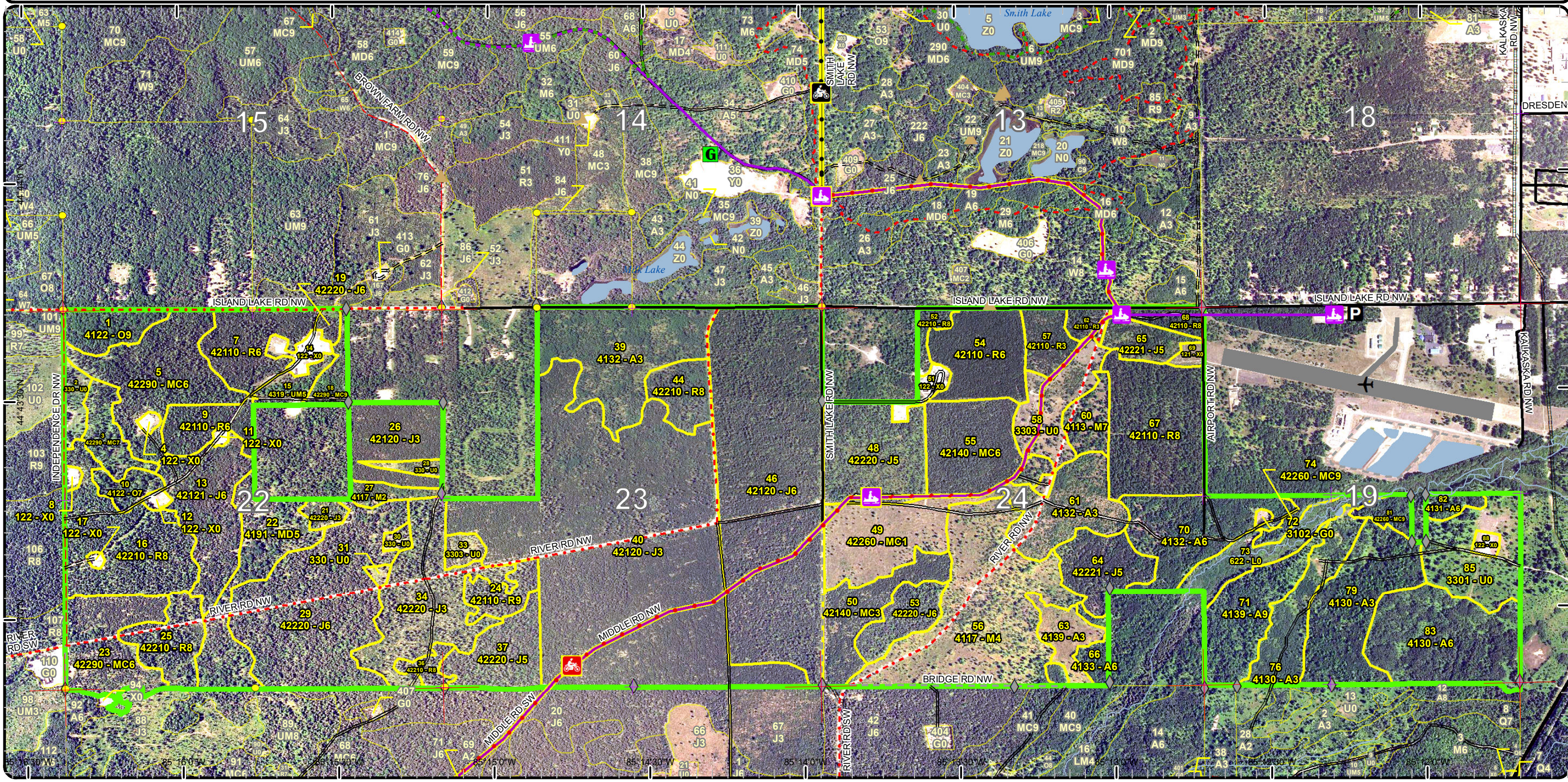


# Stand Boundary Map

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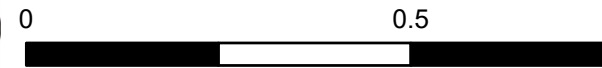
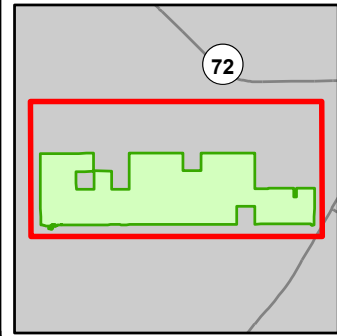


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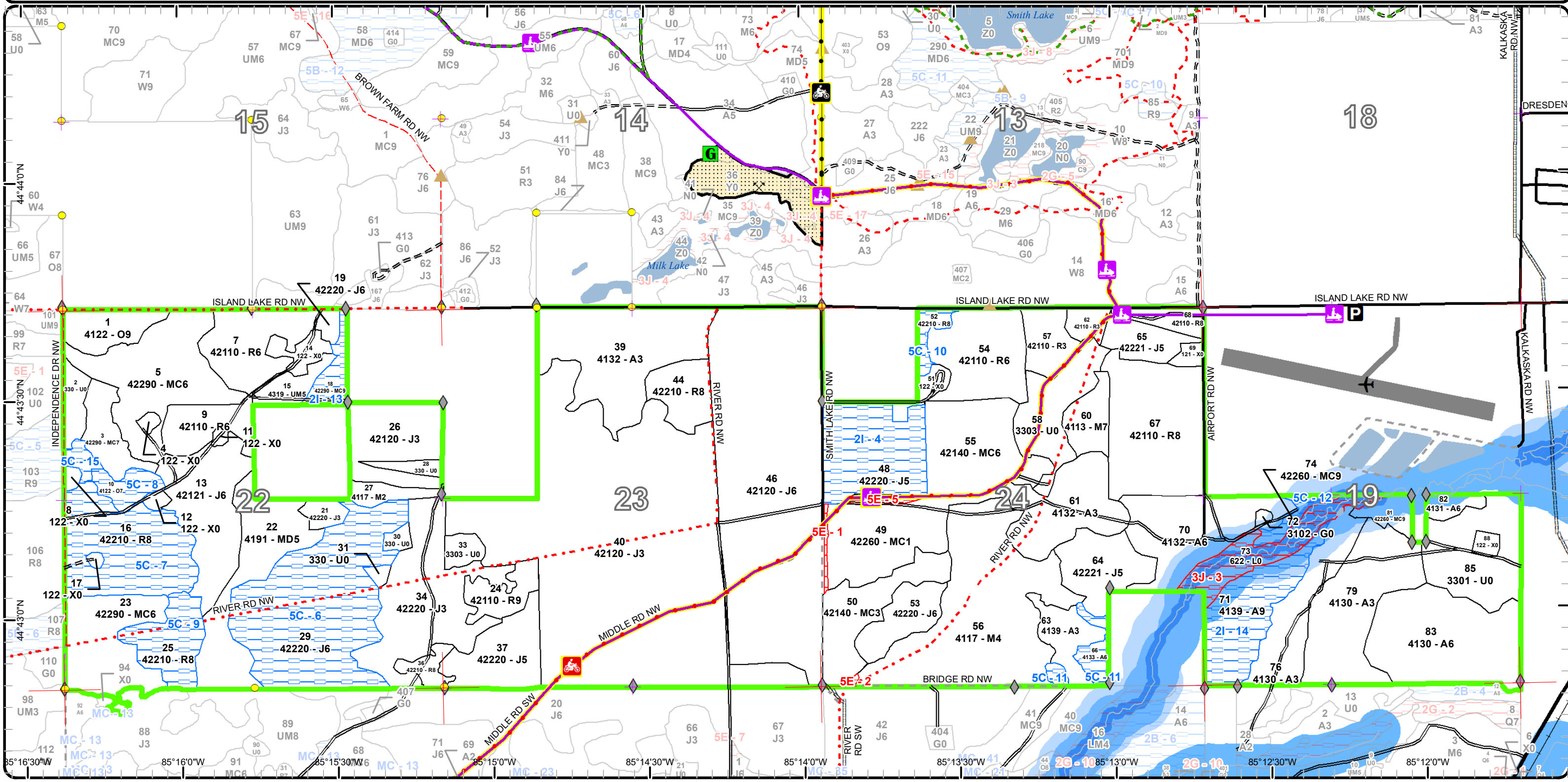


# Special Conservation Areas & Site Conditions Map

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- == Federal / State - Dirt / Gravel Road
- == County - Gravel Road
- == County - Dirt Road (Seasonal)
- == Private - Dirt / Gravel Road
- == Amtrak Railroads
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- ORV License
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- Michigan Cross Country Cycle Trail (MCCCT)
- ✈ Airport
- Berms
- Gate
- Parking Lot
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Sand or Gravel Pit
- Sand or Gravel Pit



# Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 162 Year of Entry 2021

Thomas Peterson III : Examiner



## 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	14	64	110	100	5	43	0	0	0	0	0	0	0	0	0	0	0	336
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	63	44	512	45	0	119	0	0	0	0	0	0	0	0	0	0	781
Low-Density Trees	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Natural Mixed Pines	0	41	0	37	0	52	0	16	15	0	0	5	0	0	0	0	0	0	166
Northern Hardwood	0	0	7	0	0	0	95	16	0	0	0	0	0	0	0	0	0	0	118
Oak	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	15	23
Planted Mixed Pines	0	0	0	28	37	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Red Pine	0	0	0	19	35	46	0	18	8	140	0	0	0	0	0	0	0	16	282
Upland Mixed Forest	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Urban	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
<b>Total</b>	<b>134</b>	<b>55</b>	<b>134</b>	<b>238</b>	<b>734</b>	<b>148</b>	<b>138</b>	<b>169</b>	<b>23</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>1954</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2021

Acres of Harvest

Compartment 162  
Total Compartment Acres: 1,952

Commercial Harvest - 216  
Harvests with Site Condition - 88  
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	35	0	0	0	0	0	0	0	0	35
Jack Pine	71	0	0	0	0	0	0	0	0	71
Natural Mixed Pines	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	95	0	0	16	0	0	0	0	0	111
Oak	0	0	0	0	0	15	0	0	0	15
Red Pine	0	0	0	0	0	64	0	0	0	64
<b>Total</b>	<b>209</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>304</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	304	0	0	0	28	0	0	0	50	382
Next Step	0	191	95	0	16	95	305	0	43	745
<b>Total</b>	<b>304</b>	<b>191</b>	<b>95</b>	<b>0</b>	<b>43</b>	<b>95</b>	<b>305</b>	<b>0</b>	<b>93</b>	<b>1127</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>1</b>	<b>61162001-Cut</b>	15.1	4122 - Oak, Pine	Sawtimber Well	110	81-110	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches or greater. Except for red and white pine. Cut red and white down to 6 inches DBH using sub canopy as nurse crop trees for oak. Oak wilt spec will be used on this stand no exceptions due to nearby oak wilt site and oak being one of the main trees species we want back in this stand. No retention on this stand due to small size of stand and not wanting to leave any red oak that can be infected by oak wilt.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> A fully stocked stand, with any component of oak, white pine, red, pine, aspen, red maple, or any other upland species.</p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>2</b>	<b>61162002-NF</b>	7.8	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>18</b>	<b>61162018-Cut</b>	8.7	42290 - Natural Mixed Pine	Sawtimber Well	60	111-140	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut without retention due to size of stand being under 10 acres. Cut all trees 2 inches or greater in DBH. Use spec to leave tree limbs for seed source and spec to promote scarification.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderately to fully stocked stand of jack pine and any other component of pine or upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>33</b>	<b>61162033-NF</b>	5.2	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub	No
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Prescription Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>36</b>	<b>61162036-Cut</b>	5.8	42210 - Natural Red Pine	Sawtimber Medium	60	1-50	Harvest	Overstory Removal	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Remove overstory, protect trees under 4 inches. No retention due to small size of stand.  
Specs:

Next Step  
Treatments:

Acceptable Moderately to fully stocked of jack pine with any mixture of upland species.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>37</b>	<b>61162037-Cut</b>	26.4	42220 - Natural Jack Pine	Poletimber Medium	60	Unspec ified	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut with retention. Cut all trees 2 inches or greater. Use spec to promote scarification, and spec to leave tree limbs to scatter seed source throughout the stand.  
Specs:

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

Acceptable Moderately to fully stocked stand of jack pine, with any component of upland species.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>48</b>	<b>61162048-Cut</b>	44.5	42220 - Natural Jack Pine	Poletimber Medium	47	1-50	Harvest	Clearcut with Retention	42121 - Planted Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut stand with retention. Cut all trees 2 inches or greater in DBH. Retention has already been delineated on map. Leave tops for seed source on all jack pine and use spec to promote scarification. Protect snowmobile trail spec should also be used.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderately to fully stocked jack pine stand with any component of mixed deciduous is acceptable.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2020

<b>56</b>	<b>61162056-Cut</b>	95.3	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	53	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut with retention. Leave retention in areas that there is good aspen regeneration, from previous harvest. There are a few different aspen clones scattered throughout the stand.

Next Step Pesticide, Skidder - Site Prep; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Fully Stocked stand of red pine.

Regen:

Other

This stand has failed monitoring treatment during re-inventory cycle. Stand will be final harvested and planted to red pine.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>58</b>	<b>61162058-Burn</b>	27.5	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	Burn	Opening	3105 - Mixed Upland Herbaceous		No
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Prescription Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>60 61162060-Cut</b>	15.8	4113 - R.Maple, Conifer	Sawtimber Poor	60	51-80	Harvest	Seed Tree	330 - Low-Density Trees		No
<p><u>Prescription</u> Leave scattered fire resistant trees throughout stand. This will mostly be cherry with some pine, but is not limited to these tree species.  <u>Specs:</u> Stand then will be burnt to maintain brush / grassland opening.</p> <p><u>Next Step</u> NonForestMgt, Mowing; Burn, Opening  <u>Treatments:</u></p> <p><u>Acceptable</u> This timber harvest is to remove trees that are not fire resistant. This stand will be burned after timber sale and maintained as a upland brush/grassland community opening.  <u>Regen:</u></p> <p><u>Other</u> Talk with wildlife and have them help green tree mark stand. Keep wildlife informed when timber sale is complete so that the burn can be performed.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>67 61162067-Cut</b>	57.9	42110 - Planted Red Pine	Sawtimber Medium	82	81-110	Harvest	Overstory Removal	4310 - Pine, Oak Mix	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 4 inches or more at DBH. Leave standard area retention along airport road. Protect all advanced regeneration during harvest. Use oak wilt spec with no restrictions as there is oak in understory and want to convert the stand with as much oak as possible.  <u>Specs:</u></p> <p><u>Next Step</u>  <u>Treatments:</u></p> <p><u>Acceptable</u> Moderately to fully stocked stand of any component of oak, pine and / or maple.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>71 61162071-Cut</b>	34.5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	50	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Leave retention as buffer for north branch of the Boardman river and adjacent wetland. Leave 300 foot buffer from high water edge and / or follow BMP book for Designated trout stream during timber prep.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked aspen stand with any component of upland deciduous or pine species in it.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>85 61162085-NF</b>	37.0	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Mowing	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.  <u>Specs:</u></p> <p><u>Next Step</u>  <u>Treatments:</u></p> <p><u>Acceptable</u>  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 381.5

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 162  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
336	293	<b>43</b>	0
1	1	<b>0</b>	0
780	643	<b>134</b>	3
85	85	<b>0</b>	0
22	0	<b>0</b>	22
41	41	<b>0</b>	0
165	150	<b>14</b>	1
118	117	<b>0</b>	0
24	15	<b>8</b>	0
65	65	<b>0</b>	0
282	199	<b>83</b>	0
8	8	<b>0</b>	0
25	25	<b>0</b>	0
1,952	1,643	<b>282</b>	27
	84%	<b>14%</b>	1%

*\*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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 162  
Year of Entry: 2021

4	Available	2I: Survey needed	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	93	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 162  
Year of Entry: 2021

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Available	2I: Survey needed	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Available	2I: Survey needed	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	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 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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	4122 - Oak, Pine	Sawtimber Well	15.1	110	81-110	N/A	Stand has a dominate oak overstory of logs. With a mix of various other upland tree species. The understory is thick and dominated by mostly white pine and other mixed pine species. Stand is adjacent to known oak wilt site.																																														
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2	330 - Low-Density Trees	Nonstocked	7.8	0		4222 - Natural Jack Pine	Stand has some jack pine regeneration in it. Does not met the three foot tall spec to be considered forested. Stand failed re-inventory monitoring treatment. Stand should be poor to moderately stocked in 10.  Cut spring/summer 2014. Left scattered red pine and oak.																																														
3	42290 - Natural Mixed Pine	Sawtimber Poor	14.6	70	1-50	N/A	Stand had a harvest in 2014. Harvest Appears to be a shelter wood with scattered red pine and oak. Stand has some decent regeneration in spots, but has deer browse issues at this time. With the overstory left this stand is still considered forested at this time.																																														
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4	122 - Road/Parking Lot	Nonstocked	1.5			No	Stand is an oil well.																																														
5	42290 - Natural Mixed Pine	Poletimber Well	51.6	40	51-80	N/A	Stand has large red and white pine scattered throughout it. Were there is a heavier canopy there is less regeneration. Were there was big gaps from previous harvest it has seeded in nicely with regeneration.																																														
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7	42110 - Planted Red Pine	Poletimber Well	28.8	41	51-80	N/A	Planting records shows stand was planted in 1978. Stand is a planted red pine stand. Stand has large red and white pine scattered throughout it. The stand is planted red pine, with jack pine out competing the red pine in some areas and no red pine in other areas were the jack pine has dominated the red pine.																																														
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8	122 - Road/Parking Lot	Nonstocked	1.6			No	Stand is an oil well site.																																														
9	42110 - Planted Red Pine	Poletimber Well	16.7	40	141-170	N/A	Stand is borderline on weather or not it should be third row thinned. Third row thin next year of entry.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
<b>10</b>	4122 - Oak, Pine	Sawtimber Poor	8.4	80	1-50	N/A	A lot of white oak left in overstory along with pine component. Areas of stand have regenerated to a fully stocked stand, well other areas have come back poorly. Regen is advanced so going after remaining overstory should not be done at this time.																																				
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<b>11</b>	122 - Road/Parking Lot	Nonstocked	1.2			No	Stand is a oil well site.																																				
<b>12</b>	122 - Road/Parking Lot	Nonstocked	1.9			No	Stand is an oil well site.																																				
<b>13</b>	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	40.6	30	51-80	N/A	Stand does have a few pockets of J3 in it. more to the north, as were the farther south you go in this stand the larger and nicer timber you run into.																																				
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<b>14</b>	122 - Road/Parking Lot	Nonstocked	6.7			No	Stand is an oil well site.																																				
<b>15</b>	4319 - Mixed Upland Forest	Poletimber Medium	8.5	30	1-50	N/A																																					
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<b>16</b>	42210 - Natural Red Pine	Sawtimber Medium	55.4	80	51-80	N/A	Stand was marked in 2014. Stand still has a good canopy of red pine with open pockets were timber was removed have seeded in nicely at this time. Marked to cut in 2014, removed ~20 sf of mixed pine. Good advanced regeneration.																																				
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Red Maple	Medium	Variable	Sapling																																								
<b>17</b>	122 - Road/Parking Lot	Nonstocked	0.9	0		No	Gas Well Site.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
<b>18</b>	42290 - Natural Mixed Pine	Sawtimber Well	8.7	60	111-140	N/A																																					
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<b>19</b>	42220 - Natural Jack Pine	Poletimber Well	3.1	30	51-80	N/A																																					
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<b>21</b>	42220 - Natural Jack Pine	Sapling Well	4.8	16	Immature	N/A																																					
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Jack Pine	70	Sapling	1	16																																							
Black Cherry	20	Sapling	1																																								
<b>22</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	40.6	30	1-50	N/A	Stand appears to be a species removal, and two ages. Look like all the oak was left and everything else was final harvested. Stand has come back to moderately stocked at this time.																																				
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<b>23</b>	42290 - Natural Mixed Pine	Poletimber Well	37.1	22	1-50	N/A	Southern part of stand 23 has a few open areas in it. The farther north you go in this stand the more dense the timber gets. The southern part of this stand is mostly jack pine as you move north in the stand you get into the mixed pine mixture with a lot more white pine mixed into the stand.																																				
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Jack Pine	55	Pole/Sapling	5	22																																							
<b>24</b>	42110 - Planted Red Pine	Sawtimber Well	12.1	60	81-110	N/A	Red pine stand with a good mixture of jack pine.																																				
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Jack Pine	25	Pole/Log	9	60	Jack Pine	Medium	Variable	Sapling																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
25	42210 - Natural Red Pine	Sawtimber Medium	21.6	80	1-50	N/A	Stand has a super canopy of red pine. Stand appears to be a species removal. Advanced regen is to high and abundant to go after the red pine. Allow advanced regeneration to become merchantable before going after remaining red pine overstory.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Oak		10	Log/Pole/XLog	14		Jack Pine		High	5 - 10 feet	Sapling
Red Pine		65	Log/Pole/XLog	14	80	Quaking Aspen		Low	5 - 10 feet	Sapling
White Pine		25	Log/Pole/XLog	12		White Pine		Low	5 - 10 feet	Sapling
26	42120 - Planted Jack Pine	Sapling Well	30.5	25	Immature	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Jack Pine		90	Sapling/Pole	4	25					
Black Cherry		10	Sapling	3						
27	4117 - Mixed N. Hardwood - Pine	Sapling Medium	6.7	15	Immature	N/A	Stand is basically a poor quality cherry stand. There are some Jack pines that have seeded in at this time.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Jack Pine		30	Sapling	3						
Black Cherry		70	Sapling	3	15					
28	330 - Low-Density Trees	Nonstocked	3.7			No				
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Jack Pine		Low	5 - 10 feet	Sapling						
Black Cherry		Low	5 - 10 feet	Sapling						
29	42220 - Natural Jack Pine	Poletimber Well	92.7	60	Unspecified	N/A	Stand in a nice Jack pine stand with a good mix of other upland species.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Red Maple		10	Log/Pole	10		White Oak	Medium	10 - 20 feet	Sapling	
Red Pine		12	Log/Pole	10		White Pine	Medium	10 - 20 feet	Sapling	
Jack Pine		60	Pole/Log	9	60	Bigtooth Aspen	Low	10 - 20 feet	Sapling	
Black Cherry		10	Pole/Log	9		Black Cherry	Low	10 - 20 feet	Sapling	
30	330 - Low-Density Trees	Nonstocked	2.5		Unspecified	No	Grassy opening, with cherry and jack pine starting to seed into opening.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Black Cherry		Low	Variable	Sapling						
Jack Pine		Low	Variable	Sapling						
31	330 - Low-Density Trees	Nonstocked	1.6		Unspecified	No	Open grassy area. Trees are starting to seed into this area.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Black Cherry		Low	Variable	Sapling						
Jack Pine		Low	Variable	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																										
33	3303 - Mixed Low Density Trees	Nonstocked	5.2		Unspecified	No	Grassy opening, with jack pine and black cherry starting to seed into the opening.																										
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Sub-Canopy Species	Density	Avg. Height	Size																														
Black Cherry	Low	Variable	Tall Shrub																														
Jack Pine	Low	Variable	Sapling																														
34	42220 - Natural Jack Pine	Sapling Well	57.5	15	Immature	N/A	Stand is a fully stocked Jack pine stand at this time. Stand has a super canopy of red pine over it.																										
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Jack Pine	75	Sapling	1	15																													
Red Pine	15	Log/Pole	12	65																													
Black Cherry	10	Sapling	1																														
36	42210 - Natural Red Pine	Sawtimber Medium	5.8	60	1-50	N/A																											
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37	42220 - Natural Jack Pine	Poletimber Medium	26.4	60	Unspecified	N/A	Stand has some die back in jack pine.																										
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39	4132 - Aspen, Jack Pine	Sapling Well	60.6	27	Immature	N/A	Stand is fully stocked aspen stand. Stand has jack pine growing under the aspen at this time. Stand also has a super canopy of red pine that were left during the final harvest. Stand had retention of pine left along island lake road. Stand also has a few open areas scattered throughout it.																										
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Jack Pine	35	Sapling	4																														
40	42120 - Planted Jack Pine	Sapling Well	257.7	30	Immature	N/A	Planting records shows this stand was planted in 1989. Stand has scattered large red pine throughout the stand. Stand has a few open areas in it. Stand is at the transition stage between sapling and pole with the majority of the trees being in the sapling size stage at this point.																										
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44	42210 - Natural Red Pine	Sawtimber Medium	16.1	80	81-110	N/A	Stand appears to be a red pine stand that had a species removal during its last harvest.. The stand has a red pine canopy, with a sub canopy of advanced aspen. Advanced regen is to big at this time to go after the rest of the red pine. Allow aspen to become merchantable and then clear cut stand to allow stand to be fully stocked aspen stand.																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>46</b>	42120 - Planted Jack Pine	Poletimber Well	169.4	35	1-50	N/A	Planting records show stand was planted in 1984. A super canopy of red pine was left in this stand before it was planted. This is a planted jack pine stand. In this stand there are rows of red pine planted with the jack pine. There seems to be a few rows of planted jack pine a row of red pine then a few more rows of jack pine. It seems to be this pattern throughout most of the stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		35	Pole/Sap/Log	8		Black Cherry		
Jack Pine		60	Pole/Sapling	6	35	Low Variable Sapling		
<b>48</b>	42220 - Natural Jack Pine	Poletimber Medium	44.5	47	1-50	N/A	Stand has a lot of jack pine falling out at this time. Stand is past mature and needs to be cut.  Old OI stand origin 1937 old jack pine has fallen out of stand only scated trees remain	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Quaking Aspen		15	Pole	6				
Red Pine		15	Log/Pole	11				
Jack Pine		60	Pole	8	47			
<b>49</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	40.6	5	Immature	N/A	Stand has pockets of nice regeneration. Lots of snow during inventory, could see a bunch of jack pine seedlings sticking out of snow. Stand at this time is poorly stocked.  Final harvest in fall 2014. Left oak, white pine and scattered red pine (mostly concentrated in a small cluster in SE part of stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		10	Log/Pole	10				
Jack Pine		50	Sapling	1	5			
Black Cherry		20	Sapling	1				
Quaking Aspen		15	Sapling	1				
<b>50</b>	42140 - Planted Mixed Pine	Sapling Well	28.2	27	Immature	N/A	Stand is a red pine stand that has been outcompeted by Jack Pine. There area good areas were the red pine has no competition, but there area a lot of areas were it is just a wall of jack pine seedlings.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Pine		50	Sapling	3				
Jack Pine		50	Sapling	3	27			
<b>51</b>	122 - Road/Parking Lot	Nonstocked	5.4			No	Stand is an oil well site.	
<b>52</b>	42210 - Natural Red Pine	Sawtimber Medium	5.5	85	81-110	N/A	Thinned fall 2014 by Lutke's own crew.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
White Pine		25	Log/Pole/XLog	12				
Red Pine		60	Log/Pole/XLog	12	85			
Jack Pine		10	Pole	6				
<b>53</b>	42220 - Natural Jack Pine	Poletimber Well	16.9	33	51-80	N/A	A few of the larger jack pine that were left from previous harvest seem to be dead at this time. There is good advanced regeneration under the original harvest reaching pole size at this time.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		15	Pole/Log	8		White Pine		
White Pine		10	Log	12		Low >20 feet Sapling		
Red Pine		15	Log/Pole	12	72			
Jack Pine		60	Pole	5	33			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>54</b>	42110 - Planted Red Pine	Poletimber Well	35.1	32	51-80	N/A	Stand is in transition stage between sapling and pole with pole being the higher percentage at this time. There is some jack pine competition with red pine in this stand, and a few openings with cherry were the red pine did not take off. Planting records shows stand was planted in 1987																																													
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<b>55</b>	42140 - Planted Mixed Pine	Poletimber Well	37.3	37	1-50	N/A	Stand was a planted red pine stand which was planted in 1982. Stand has a ton of jack pine competition in it at this time. There are places where the jack pine has defiantly out grown the red pine and the red pine is very stunted in these areas. There are also a few spots in the stand where the red pine is decent. Stand is in transition stage between pole and sapling with pole being the higher percentage at this time.																																													
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Jack Pine	50	Pole/Sapling	5	37																																																
<b>56</b>	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	95.3	53	1-50	N/A	Stand is basically a poor quality cherry stand at this time. There are a few pockets of aspen regeneration scattered throughout the stand at this time. Stand has regenerated very poorly and has not past it re-inventory monitoring treatment at this time.  Final harvested in fall 2014. Cut jack pine, aspen and red maple. Left all cherry, which was probably too much, but adhered to original prescription.																																													
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<b>57</b>	42110 - Planted Red Pine	Sapling Well	13.2	25	Immature	N/A	Stand has some decent jack pine competition.																																													
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<b>58</b>	3303 - Mixed Low Density Trees	Nonstocked	27.5		Unspecified	Managed Opening	Stand has some single stem jack pine. Stand also has some bigger pockets of jack pine. Stand is seedling in slowly but is still mostly grass at this time.																																													
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<b>60</b>	4113 - R.Maple, Conifer	Sawtimber Poor	15.8	60	51-80	N/A	Stand is pretty open not much understory. Stand has scattered big red maple. Clear cut next year of entry and try to expand red maple and aspen in stand.																																													
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<b>61</b>	4132 - Aspen, Jack Pine	Sapling Well	34.5	16	Immature	N/A	Stand has nice aspen clones growing throughout it at this time, mixed with mostly jack pine but does have other mixed upland species in it.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
<b>62</b>	42110 - Planted Red Pine	Sapling Well	5.7	25	1-50	N/A	Planted red pine with a red pine super canopy. Stand has some competition and open spots.																																		
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<b>63</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	13.8	5	Immature	N/A	Harvested everything except oak, white pine and some red pine in fall 2014.																																		
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<b>64</b>	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	23.8	33	1-50	N/A	Stand is in transition stage between sapling and pole with the higher percentage of the trees being pole.																																		
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<b>65</b>	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	12.6	25	1-50	N/A	Stand is in the size between sapling and pole. Stand trees are mostly in the pole size at this time.																																		
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<b>66</b>	4133 - Aspen, Mixed Pine	Poletimber Well	8.6	53	51-80	N/A	Stand has timber trespass on east side of stand.																																		
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<b>67</b>	42110 - Planted Red Pine	Sawtimber Medium	57.9	82	81-110	N/A	Stand is a good candidate for converting to oak / mixed pine. Planting records show stand was planted in 1937.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>68</b>	42110 - Planted Red Pine	Sawtimber Medium	8.0	75	81-110	N/A	Oak in understory consider overstory removal next year of entry converting stand to an oak stand. look at stand 67 to see how successful this was in this area.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		95	Log/Pole/XLog	12	75	Red Maple		Medium	10 - 20 feet	Sapling
						Jack Pine		Low	10 - 20 feet	Sapling
						Bigtooth Aspen		Low	10 - 20 feet	Sapling
						Red Oak		Medium	Variable	Sapling
						Beech		Medium	Variable	Sapling
<b>69</b>	121 - Airport	Nonstocked	3.0			No	Stand is cleared and maintained by airport.			
<b>70</b>	4132 - Aspen, Jack Pine	Poletimber Well	41.7	33	1-50	N/A	There was a buffer left against stand 73 with nice oak, and pine and some bigger aspen. Stand 73 is the North Branch of the Boardman River.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Quaking Aspen		60	Pole	6	33					
Jack Pine		20	Pole	6						
Black Cherry		10	Pole/Sapling	6						
<b>71</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	34.5	50	51-80	N/A	Stand is a good upland mix with a little higher percentage of aspen then red maple. Stand has some nice pockets of maple regen in it.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		40	Log/Pole	12		White Oak		Low	Variable	Sapling
Quaking Aspen		50	Log/Pole	10	50	Red Maple		Low	Variable	Sapling
						White Pine	Low	Variable	Sapling	
<b>72</b>	3102 - Grass	Nonstocked	0.9			No	Old gas well site. No well on site anymore.			
<b>73</b>	622 - Lowland Shrub	Nonstocked	22.2			No	North Branch of Boardman River runs through this stand.			
<b>74</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.1	110	111-140	N/A	This stand is adjacent to Boardman river watershed. Allow aspen and jack pine to fall out of stand. Allowing long live species to grow along the river corridor.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		12	Pole	8		White Pine		Medium	Variable	Sapling
Red Oak		8	Log/Pole	12		Red Pine		Medium	Variable	Sapling
Quaking Aspen		15	Pole	9						
White Pine		25	Log/Pole/XLog	13						
Red Pine		30	Log/Pole/XLog	12	110					
Jack Pine		10	Pole	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>76</b>	4130 - Aspen	Sapling Well	29.5	11	Immature	N/A	Fully stocked stand at this time.																																																						
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<b>79</b>	4130 - Aspen	Sapling Well	49.6	23	1-50	N/A	Stand is about to pole size at this time. With about 60 % of the trees remaining in the sapling size.																																																						
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<b>81</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.0	65	51-80	N/A	Stand is adjacent to Boardman River good cover at this time. Consider thinning stand in future keeping the natural long lived species in it.																																																						
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<b>82</b>	4131 - Aspen, Oak	Poletimber Well	5.2	42	51-80	N/A	Stand is located just south of Boardman River. Stand is in good health at this time.																																																						
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<b>83</b>	4130 - Aspen	Poletimber Well	58.1	32	Immature	N/A	South end of stand is a lowland aspen stand. Stand has a few open spots in it.																																																						
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<b>85</b>	3301 - Low Density Deciduous Trees	Nonstocked	37.0		Unspecified	No	Site has gas well in the middle of it. Stand has scattered trees and is very open.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
88	122 - Road/Parking Lot	Nonstocked	2.6			No	Gas Well Site.