



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61017

Entry Year: 2026

Acreage: 1,810

County: Benzie

Management Area: Grand Traverse Moraine

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**Stand Examiner:** Craig Allen

### Legal Description:

T26N - R13W; sections 21, 28, 33

### Identified Planning Goals:

This compartment is a part of the Benzie Outwash Management Area. Within this compartment there is a high percentage of early successional forest types consisting primarily of aspen, red maple and cherry that will continue to require harvest treatments to balance age class distributions. We will concentrate our harvest efforts on the oldest age classes to regenerate. Most of the proposed treatments are targeting these stands. These cuts will have retention islands as well as various scattered retention trees remaining.

### Soil and topography:

Soils in this compartment include Kalkaska, Rubicon, and Roscommon-AuGres-Croswell sands. Topography is level to gently rolling, with some low hardwood hills in the southwest and southeast corners of the compartment. There is a shallow valley along Kinney Creek. Some flat areas south of Cinder Road have a high water table with some wetlands.

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

This part of Benzie County is predominantly forested state land. There are a campground and several cottages and homes along Turtle Lake, just west of the compartment. Private land parcels along Cinder and Miller Roads have low density rural homes.

### Unique Natural Features:

Kinney Creek flows underground across most of section 21 and emerges near the west section line. A short stretch of seasonal flowage drains lowland aspen forest on the east side of section 28 into a seasonally wet grassy opening near the center of the section.

### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

### Special Management Designations or Considerations:

A pocket of oak wilt has been confirmed in section 33 and treatment is being prescribed to contain it. Also, see all other attached proposed treatments.

### Watershed and Fisheries Considerations:

Kinney Creek is a designated trout stream that flows through the northern portion of this compartment. Suitable buffers (as outlined in Water Quality Management Practices on Forest Land) should be applied to treatment areas adjacent to Kinney Creek.

### Wildlife Habitat Considerations:

Compartment 17 is comprised of a broad outwash plain with few lakes and wetlands. There is a campground nearby and this area receives a fair number of hunters and recreationalists. Kinney Creek transects the middle of this compartment but is mostly underground in this area.

The sandy soils of this land type association (LTA) were often the setting for large wildfires. Felling of encroaching woody vegetation may be necessary to maintain the openings. Many wildlife species prefer areas with forest edge. Such animals include white-tailed deer, white-throated sparrow, and blue racer.

Large areas north of Cinder Road are aspen stands. Presettlement vegetation was mostly upland conifers (white pine) and this area has a natural tendency to revert back to this stage. Since mixed-aged aspen stands are desirable for many wildlife species, management objectives should focus in keeping this area at a mid-successional stage. Timber practices should include a plan for variable age classes within the aspen stands, with the inclusion of large coarse woody debris. Timber harvest practices that would mimic fires of various intensities should be implemented, when applicable. Animals that may be found here include white-tailed deer, ruffed grouse, smooth green snake, and northern flicker.

The lowland areas within this compartment are mixed lowland shrubs. These areas provide cover and a food source with its many berries. The oak stands should be managed to try to regenerate these species, while still providing hard mast for

wildlife.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is used for cement products. A gravel pit is located one and one-half miles to the northwest and there should be potential, especially to the south. This area is located in an area of recent Antrim Shale development. The Compartment is leased for oil and gas development and the Antrim Shale appears to have potential. (Tom Hoane)

### **Vehicle Access:**

There is good vehicle access throughout the compartment.

### **Survey Needs:**

There are no known survey needs within this compartment at this time.

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

The Betsie River snowmobile trail crosses section 33. Non-Winter cuts are preferred, however, if a winter cut is silviculturally desirable, then appropriate snowmobile trail protection specifications should be used to accommodate both timber sale, and snowmobiling activities. Additional snowmobile related trail protection specifications should be used if trail is impacted by timber treatments. Dispersed recreational activities in this compartment include hunting, camping, trapping, mushrooming, and berry picking. (T.M.N. 4/14/14)

### **Fire Protection:**

This area has wildfire protection by the Almira Township Fire Department and the Traverse City DNR.

### **Additional Compartment Information:**

Any of the private lands within this compartment should be considered for purchase if they become available. Purchase of these lands would further help to block in State ownership of land within this compartment, thereby making land management easier with better access and allowing more contiguous land area for public enjoyment and use.

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

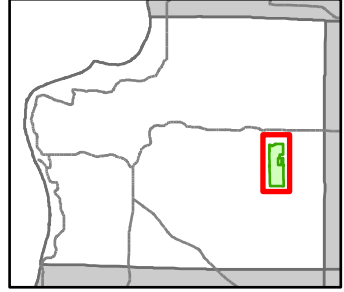
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

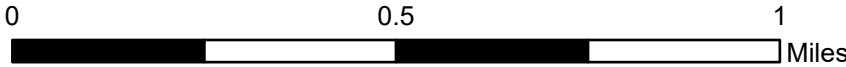
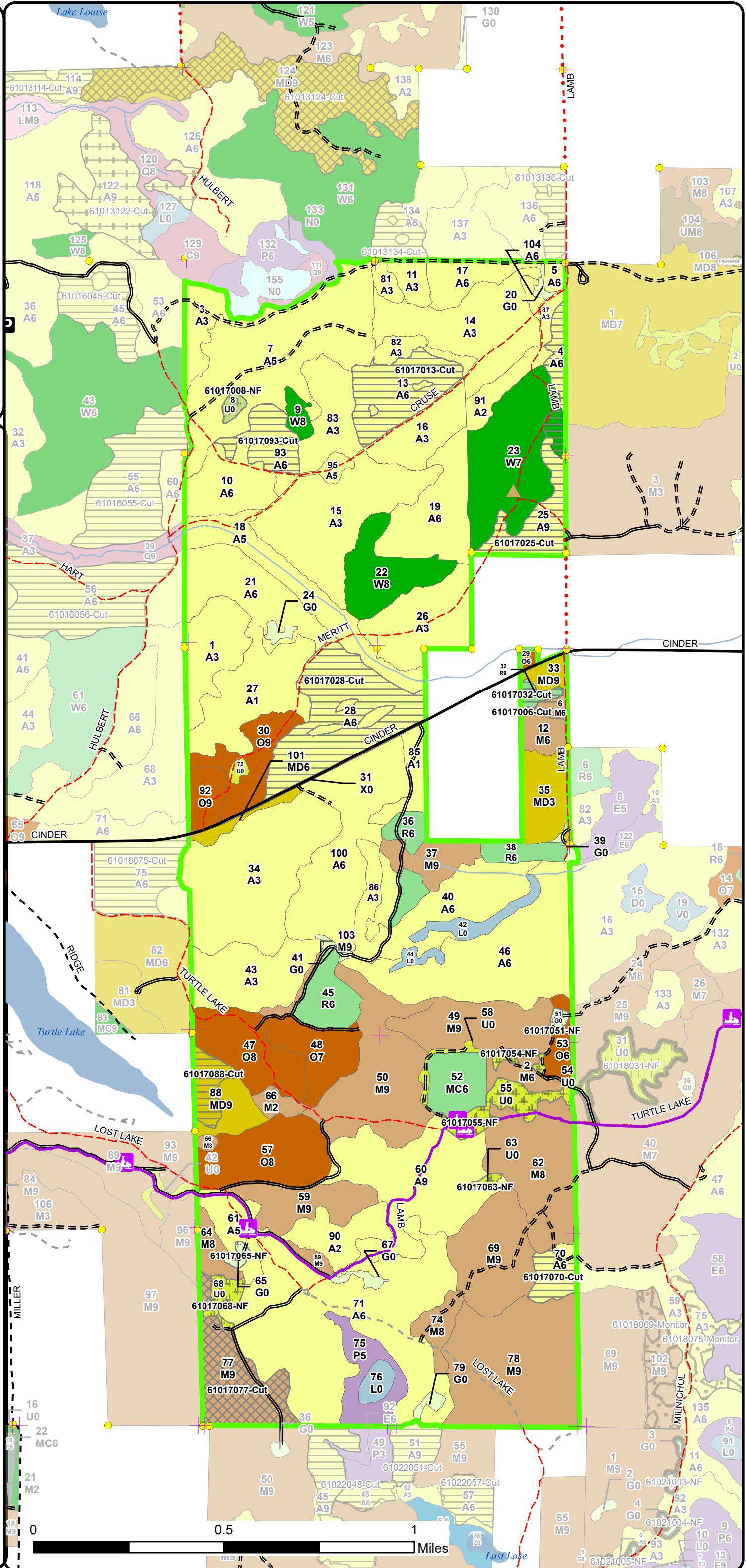
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 61017  
 T26N, R13W, Sec: 21, 28, 33  
 County: Benzie  
 Unit: Traverse City  
 Mgmt Area: Grand Traverse Moraine  
 YOE: 2026  
 Acres: 1809.8 GIS Calculated  
 Examiner: Craig Allen  
 Map Revised: 10/14/2024  
 Map Phase: Post Review

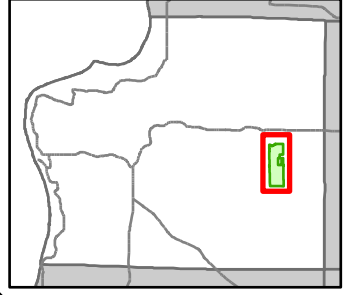


- Snowmobile Trails
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Campground
- Parking Lot
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

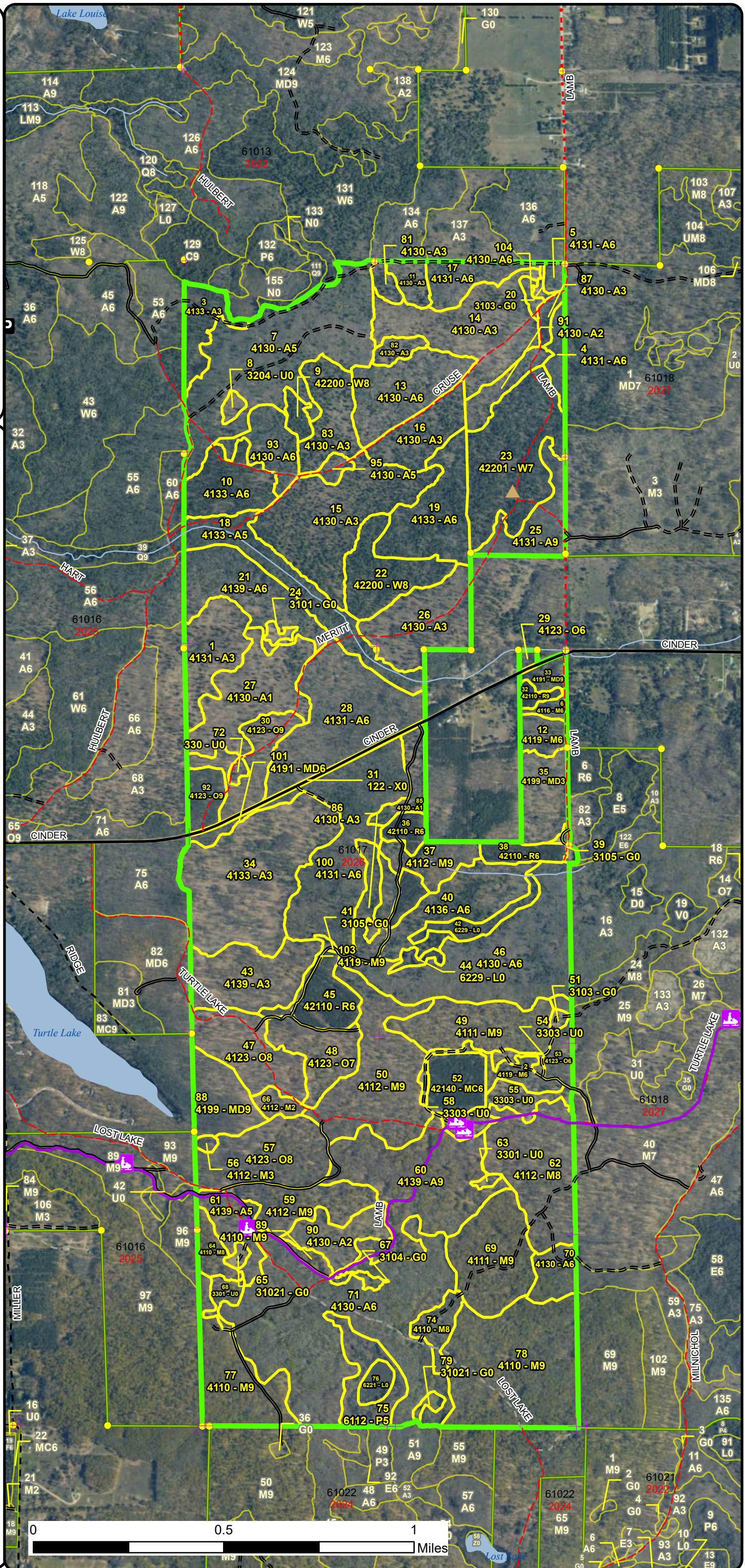


Stand Boundary Map

Compartment: 61017  
 T26N, R13W, Sec: 21, 28, 33  
 County: Benzie  
 Unit: Traverse City  
 Mgmt Area: Grand Traverse Moraine  
 YOE: 2026  
 Acres: 1809.8 GIS Calculated  
 Examiner: Craig Allen  
 Map Revised: 10/14/2024  
 Map Phase: Post Review

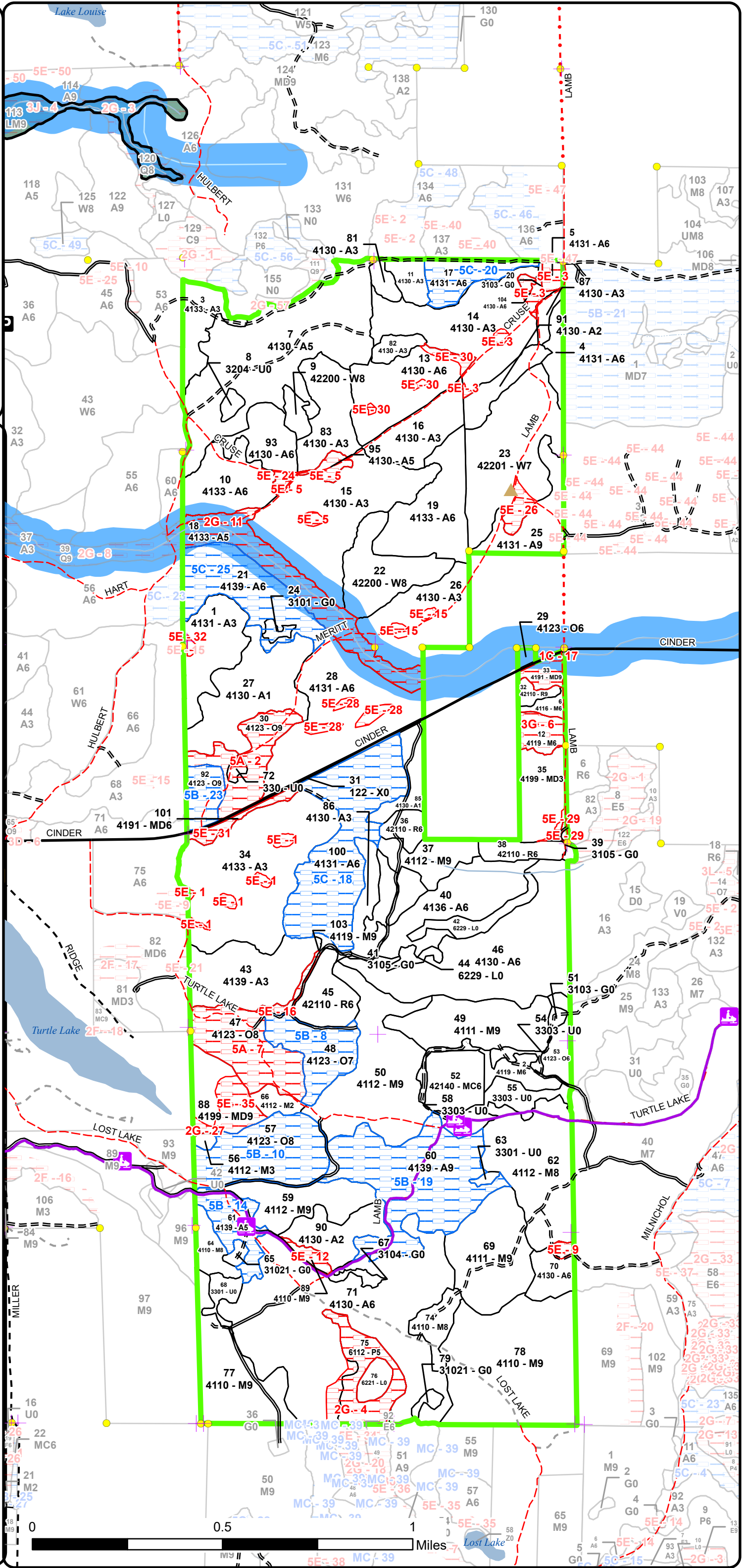
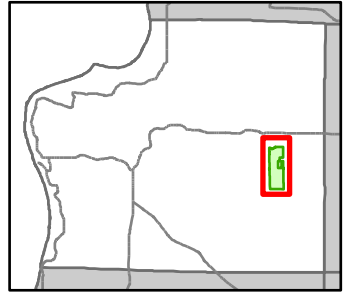


- Snowmobile Trails
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Campground
- Parking Lot
- DNR - Secondary Forest Road
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- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
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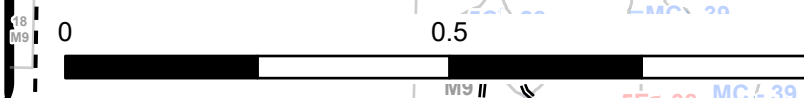


# Special Conservation Areas & Site Conditions Map

Compartment: 61017  
 T26N, R13W, Sec: 21, 28, 33  
 County: Benzie  
 Unit: Traverse City  
 Mgmt Area: Grand Traverse  
 Moraine  
 YOE: 2026  
 Acres: 1809.8 GIS Calculated  
 Examiner: Craig Allen  
 Map Revised: 10/14/2024  
 Map Phase: Post Review



- Snowmobile Trails
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Campground
- Parking Lot
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



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+	Unseen-Aged	Total
Aspen	0	254	121	50	313	85	113	74	74	0	0	0	0	0	0	0	0	16	1099
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	0	0	0	0	5	0	0	0	23	0	0	0	0	0	19	47
Northern Hardwood	0	0	5	1	8	0	3	0	0	64	3	200	0	0	0	0	0	57	341
Oak	0	0	0	0	0	0	1	0	0	0	0	83	0	28	0	0	0	8	120
Planted Mixed Pines	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Red Pine	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	36
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	28	51	0	0	0	0	0	0	0	0	79
<b>Total</b>	<b>59</b>	<b>254</b>	<b>126</b>	<b>66</b>	<b>321</b>	<b>85</b>	<b>117</b>	<b>115</b>	<b>102</b>	<b>115</b>	<b>3</b>	<b>306</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>1812</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 17  
Total Compartment Acres: 1,810

Commercial Harvest - 174  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	127	0	0	0	0	0	0	0	0	127
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	3	32	0	0	0	0	0	0	0	35
Red Pine	3	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>142</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>174</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	174	0	0	0	0	0	0	0	26	200
Next Step	0	0	0	0	0	0	174	0	0	174
<b>Total</b>	<b>174</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>174</b>	<b>0</b>	<b>26</b>	<b>373</b>



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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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**Approved Treatments:**

<b>6</b>	<b>61017006-Cut</b>	3.1	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	75	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all species to regenerate and expand aspen component. Except, keep all oak.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, maple, oak, pine  <u>Regen:</u>  <u>Other</u> Add drumming log spec to sale.  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>8</b>	<b>61017008-NF</b>	2.2	3204 - Mast Producing Shrub	Nonstocked			Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>13</b>	<b>61017013-Cut</b>	26.9	4130 - Aspen	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen, maple, cherry and merchantable white pine. Protect non-merchantable pine during harvest operations to keep as component of the stand. Mark long term retention areas as shown on inventory map. Leave all oak and mark to leave any legacy trees.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, maple, cherry, pine, oak  <u>Regen:</u>  <u>Other</u> add drumming spec.  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</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>25</b>	<b>61017025-Cut</b>	27.8	4131 - Aspen, Oak	Sawtimber Well	59	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all aspen, maple, cherry and merchantable white pine mainly for goal of expansion of aspen. Harvest most red oak but mark scattered leave trees of large oak especially along edge of lamb road on south end of harvest area (for aesthetic purposes). Do not cut any white oak or red pine. Also, mark to leave any "legacy" pine or oak as their are a few within stand. Long-term retention area for this harvest as defined on map (at intersection area of roads).

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, cherry, white pine, red pine, oak

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>28</b>	<b>61017028-Cut</b>	49.5	4131 - Aspen, Oak	Poletimber Well	47	Unspec ified	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
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Prescription Clearcut stand to primarily regenerate and expand aspen, but retain some oak and pine.

Specs: Leave all white oak. Leave a few long term retention islands positioned length-way and parallel to cinder road for visual diversity. Protect sub-merchantable white pine. Also can mark some scattered (2 to 5 per acre) oak and pine for long term retention trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, white pine, red pine, oak, cherry

Regen:

Other

Add drumming log spec to sale.

Comment: Not: Retention islands on inventory map are approximate location/size and can be adjusted as deemed appropriate by Forester.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>32</b>	<b>61017032-Cut</b>	2.9	42110 - Planted Red Pine	Sawtimber Well	67	141-170	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Convert area to mix hardwoods with components of red and white pine. Cut all red pine and hardwoods to allow aspen to regenerate into the stand from the south. Mark to leave small clumps (islands) and or individuals of red pine scattered for species diversity and seed trees. Be sure to leave red pine residual higher in the northwest lobe of the stand to help protect the adjacent super-canopy white pine (to the east) from potential windthrow. Protect advanced white pine regeneration from logging damage as possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, red pine, white pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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**51 61017051-NF** 1.4 3103 - Rubus-Fern Nonstocked Unspec ified NonForestMgt Fruit Tree/Shrub Planting 3204 - Mast Producing Shrub No

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

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:  
Proposed Start Date: 10/1 /2025

**54 61017054-NF** 2.4 3303 - Mixed Low Density Trees Nonstocked Unspec ified NonForestMgt Fruit Tree/Shrub Planting 3204 - Mast Producing Shrub No

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

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:  
Proposed Start Date: 10/1 /2025

**55 61017055-NF** 12.6 3303 - Mixed Low Density Trees Nonstocked Unspec ified NonForestMgt Fruit Tree/Shrub Planting 3204 - Mast Producing Shrub No

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

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:  
Proposed Start Date: 10/1 /2025



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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>63</b>	<b>61017063-NF</b>	1.1	3301 - Low Density Deciduous Trees	Nonstocked	Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Specs: Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>65</b>	<b>61017065-NF</b>	1.7	31021 - Cool Season Grass	Nonstocked	Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Specs: Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>68</b>	<b>61017068-NF</b>	4.5	3301 - Low Density Deciduous Trees	Nonstocked	Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Specs: Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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>70</b>	<b>61017070-Cut</b>	8.5	4130 - Aspen	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Manage stand for mix of aspen and sugar maple. Harvest all species to regenerate and expand aspen. Green mark scattered seed trees (aprox.10) of maple leaving the better quality/form log trees for seed source and diversity. These trees are more concentrated in the SW area of the stand. Protect advanced sugar maple as much as possible during logging operations.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: aspen, sugar maple

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>77</b>	<b>61017077-Cut</b>	31.8	4110 - Sugar Maple Association	Sawtimber Well	102	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
-----------	---------------------	------	--------------------------------	----------------	-----	--------	---------	-----------------------	-------------------------	-----------	----

Prescription Lightly thin by selection removing poor-form, multi-stem and suppressed trees. Reduce average volume to approximately 80 BA. Goal is to open canopy in places to stimulate sugar maple regen in understory as well as put future growth on better trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: sugar maple, basswood, ash, cherry

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>88</b>	<b>61017088-Cut</b>	9.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	108	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	-----	-------------------------------------	----------------	-----	--------	---------	-------------------------	-------------	-----------	----

Prescription Manage for mix species stand. Harvest all hardwood species. Harvest merchantable white pine but mark some scattered mature pine for future seed source and protect sub-merchantable pine during logging operations. Long term retention is achieved through leaving the area of the stand untreated to the south east as well as the small area in the southwest corner.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: aspen, maple, oak, cherry, white pine.

Other Comment: Add drumming spec.

Site Condition:

Proposed Start Date: 10/1 /2025



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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
93 61017093-Cut	14.0	4130 - Aspen	Poletimber Well	71	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen, maple, cherry and merchantable white pine. Protect sub-merchantable white pine during harvest to keep as a component of the stand. Leave all oak and red pine. Mark to leave in stand any unique or "legacy" trees of any species. Long-term retention for this harvest is portion of stand south of 2-track road (see map) as defined by site condition layer.</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 Regen:</u> Aspen, maple, cherry, white pine, red pine, oak.</p> <p><u>Other Comment:</u> add drumming log spec.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Total Treatment Acreage Proposed: 199.6**

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
 Craig Allen: Examiner

Compartment: 17  
 Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions							
				5B	5C	1C	2G	3G	5A	5E	
1099	867	<b>173</b>	59	Aspen	74	99		34			25
13	11	<b>2</b>	0	Herbaceous Openland		2					
25	23	<b>0</b>	2	Low-Density Trees						2	
16	16	<b>0</b>	0	Lowland Aspen/Balsam Poplar				0			
15	15	<b>0</b>	0	Lowland Shrub				0			
47	27	<b>0</b>	20	Mixed Upland Deciduous	0		5	1			14
340	327	<b>0</b>	13	Northern Hardwood					7	0	5
119	9	<b>63</b>	47	Oak	63			0		47	
15	15	<b>0</b>	0	Planted Mixed Pines							
35	35	<b>0</b>	0	Red Pine							
2	2	<b>0</b>	0	Upland Shrub							
4	4	<b>0</b>	0	Urban							
79	75	<b>0</b>	4	White Pine							4
1,810	1,428	<b>238</b>	144	Total Forested Acres	137	101	5	36	7	48	48
	79%	<b>13%</b>	8%	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	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5A: Not able to obtain desirable regeneration	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen: Examiner

Compartment: 17

Year of Entry: 2026

4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long term retention areas associated with stand 15 and stand 83 harvest areas.							
6	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unique, old (approx. 125-200+ yrs) and large (30+ dbh) Legacy, super canopy white pine trees scattered throughout. 25 or more of these trees. Majority seem quite healthy. Some big old red oak trees too. Stand also used as long-term retention for harvest area to the south (stand 35).							
7	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> lack of oak regeneration							
8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> retain area of advanced regen of sugar maple.							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen: Examiner

Compartment: 17

Year of Entry: 2026

10	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	31	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Slopes and seasonal drainage							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long term retention associated with harvest in stand 90.							
14	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Let aspen fall out of stand naturally allowing understory to take over stand.							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2 islands within harvest area.							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 17

Year of Entry: 2026

18	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Aspen doing fine...Hold off on harvest to stagger age classes of adjacent stands.							
19	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> let aspen fall out of stand allowing hardwood regen in understory to take over the stand in time.							
20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> white pine seeding-in and doing good in understory...leave stand as is for now. Also, getting good over-story protection from weevil damage.							
24	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long-term retention area for harvest of stand 93 (north of road)							
25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen: Examiner

Compartment: 17

Year of Entry: 2026

26	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> long-term retention for harvest surrounding it...stand 25 and 23.</p>							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
28	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
29	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
30	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> long term retention areas for stand 13</p>							
31	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Retention along Cinder road</p>							
32	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> long term retention area for surrounding timber sale area</p>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen: Examiner

Compartment: 17

Year of Entry: 2026

35	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Keep this portion of the stand as only un-treated area of the 4 contiguous stands of northern red oak in this location (stands 47, 48, 88, 57) This area also contains research plots = Many trees with blue numbers (MSU forest health?).							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
1	4131 - Aspen, Oak	Sapling Well	23.2	7	Immature	N/A	Stand was harvested in winter/spring of 2017 with adjacent stands in compartment 16 to regenerate and expand aspen and maple. Most oak and pine were left uncut. Also, some individual retention trees of aspen and maple were marked to leave. A retention island was marked to leave as well along west edge.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Sapling	1	7	Red Oak		
Red Oak		15	Log/Pole	15	97	Low		
White Pine		15	Pole	8		Variable		
Quaking Aspen		10	Sapling	1	7	Sapling		
Bigtooth Aspen		35	Sapling	1	7			
Black Cherry		10	Sapling	1	7			
White Oak		5	Sapling	1				
2	4119 - Mixed Northern Hardwoods	Poletimber Well	7.5	36	1-50	N/A	Also contains a few large white pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		25	Log/Pole	10	76	Red Maple		
Red Maple		10	Pole/Sapling	7		Low		
Ironwood		5	Pole/Sapling	5		High		
Black Cherry		10	Pole/Sapling	5		Variable		
Sugar Maple		50	Pole/Sapling	7	36	Low		
						Variable		
						Sapling		
						Sapling		
						Sapling		
						Sapling		
3	4133 - Aspen, Mixed Pine	Sapling Well	13.5	37	1-50	N/A	Aspen regen with many remnant white pine. RM, BC, WP, RO seedlings.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
White Pine		20	Log/Pole	14	83			
Red Oak		2	Log/Pole	14				
Quaking Aspen		20	Sapling/Pole	4	37			
Bigtooth Aspen		58	Sapling/Pole	4	37			
4	4131 - Aspen, Oak	Poletimber Well	6.2	73	Unspecified	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		5	Pole/Sapling	7		White Pine		
Red Oak		20	Log/XLog/Pole	17	96	Low		
Bigtooth Aspen		70	Log/Pole	11	73	Variable		
Red Maple		5	Log/Pole	13		Sapling		
5	4131 - Aspen, Oak	Poletimber Well	2.7	73	Unspecified	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		75	Log/Pole	10	73	Red Maple		
Red Oak		20	XLog/Log	18	96	Medium		
Red Maple		5	Log	12		Low		
						Variable		
						Sapling		
						Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>6</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	3.1	75	81-110	N/A																																												
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<b>7</b>	4130 - Aspen	Poletimber Medium	78.5	37	Unspecified	N/A	BC, WP seedlings. Dry site.																									
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<b>8</b>	3204 - Mast Producing Shrub	Nonstocked	2.2		Unspecified	No																														
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Black Cherry	High		Tall Shrub																																	
Fescue	Low		Non-Wood																																	

<b>9</b>	42200 - Natural White Pine	Sawtimber Medium	4.2	77	81-110	N/A	Aspen saplings in north part of stand, was cut with stand to north but this stand has denser WP residual. South part of this stand was not cut at that time, has pole aspen along with WP.																				
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<b>10</b>	4133 - Aspen, Mixed Pine	Poletimber Well	21.9	16	Unspecified	N/A																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>11</b>	4130 - Aspen	Sapling Well	6.3	37	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	12	
Red Maple	5	Pole/Sapling	6	37
Bigtooth Aspen	90	Pole/Sapling	6	37

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Black Cherry	Medium	5 - 10 feet	Sapling

<b>12</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	7.4	86	111-140	N/A	Many old "Legacy", super-canopy white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Log/Pole	10	
Red Maple	55	Log/Pole	10	86
Red Oak	5	XLog/Log/Pole	18	
White Pine	15	XLog	26	135
Beech	10	Log/Pole/XLog	14	
Bigtooth Aspen	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Ironwood	Low	>20 feet	Sapling
Sugar Maple	Low	Variable	Sapling
Beech	Medium	Variable	Sapling

<b>13</b>	4130 - Aspen	Poletimber Well	29.9	55	Unspecified	N/A	Scattered small openings with cherry saplings. A few remnant red oak sawlog trees.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole/Log	8	55
Bigtooth Aspen	93	Pole/Log	9	55
White Pine	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	>20 feet	Pole
Black Cherry	Low	5 - 10 feet	Sapling

<b>14</b>	4130 - Aspen	Sapling Well	44.5	4	Immature	N/A	Harvested in winter/spring of 2020.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	15	Log/Pole	16	96
Bigtooth Aspen	75	Sapling	1	4
Red Maple	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling

<b>15</b>	4130 - Aspen	Sapling Well	53.7	6	Immature	N/A	Harvested in march/April of 2018.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling	1	
Bigtooth Aspen	88	Sapling	1	6
White Pine	2	Sapling	1	
Black Cherry	3	Sapling	1	
Quaking Aspen	5	Sapling	1	

<b>16</b>	4130 - Aspen	Sapling Well	18.9	27	Unspecified	N/A	Was clearcut with marked residuals.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/Pole	10	
Red Maple	5	Log/Pole	10	
Bigtooth Aspen	85	Sapling/Pole	3	27

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**17** 4131 - Aspen, Oak Poletimber Well 13.1 73 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	12		White Pine	Medium	Variable	Sapling
Bigtooth Aspen	70	Log/Pole	10	73	Red Maple	Medium	Variable	Sapling
White Pine	5	Pole	8					
Red Oak	20	XLog/Log/Pole	18	96				

**18** 4133 - Aspen, Mixed Pine Poletimber Medium 31.2 73 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	78	Pole/Log	9	73	White Pine	Medium	Variable	Sapling
White Pine	20	Log/Pole	10	59	Nannyberry	Low	10 - 20 feet	Tall Shrub
Black Cherry	2	Log	12					

Quaking aspen along draw, in contrast to bigtooth in adjacent types. Some blueberry on slopes; wetland shrubs along lower part of flowage west end of stand, including nannyberry. Scattered older white pine saw log trees.

**19** 4133 - Aspen, Mixed Pine Poletimber Well 31.3 27 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	58	Sapling/Pole	4	27
Red Maple	2	Log/Pole	10	
White Pine	40	Log/Pole	10	

**20** 3103 - Rubus-Fern Nonstocked 1.3 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Low		Non-Wood
Black Cherry	Low		Log
Hawthorn (spp.)	Trace		Tall Shrub
Bracken Fern	Full		Non-Wood
White Pine	Low		Sapling
Oak (spp.)	Trace		Log
Spotted Knapweed	Trace		Non-Wood
Serviceberry (Juneberry)	Low		
Aspen (spp.)	Trace		Pole
Red Maple	Low		Log
Unlisted - See Comments	Trace		

**21** 4139 - Aspen, Mixed Deciduous Poletimber Well 32.5 49 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole	16	97	White Pine	Medium	Variable	Sapling
Red Maple	10	Pole/Log	8	49				
Black Cherry	10	Pole	8	49				
Quaking Aspen	10	Pole	8	49				
White Pine	15	Pole	8					
Bigtooth Aspen	40	Pole/Log	9	49				

Also has some scattered nice mature white oak trees...should be left long term for mast and diversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
22	42200 - Natural White Pine	Sawtimber Medium	24.2	79	81-110	N/A	Nice stand of natural WP.																																							
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23	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	50.7	88	51-80	N/A																																								
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24	3101 - Poverty Grass, Cladonia	Nonstocked	1.7		Unspecified	No																																								
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27	4130 - Aspen	Sapling Poor	36.7	17	Unspecified	N/A	Aspen regen from fall 2006 cut, with residual mature oak and sapling white pine. Small amount of residual red pine, black cherry, white oak, and witch hazel.																																
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28	4131 - Aspen, Oak	Poletimber Well	52.9	47	Unspecified	N/A	Also contains a few white oak trees.																																
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29	4123 - Red Oak	Poletimber Well	1.3	53	51-80	N/A	Possible dispose of this parcel: isolated lot. Seedlings: SM, BC, IW, WP. Jack pine rows along road.																																
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30	4123 - Red Oak	Sawtimber Well	19.1	106	51-80	N/A	Park-like and open understory due to prescribe burn																																
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Red Oak	85	Log/Pole/XLog	14	106																																			
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31	122 - Road/Parking Lot	Nonstocked	3.8		Unspecified		Cinder Road (paved) and cleared right of way.																																
32	42110 - Planted Red Pine	Sawtimber Well	2.9	67	141-170	N/A																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**33** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 4.9 66 51-80 N/A Some old super-canopy white pine. (30+dbh) Also some big oak, sugar maple, beech.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	5	XLog/Log	18	
Red Oak	10	Log/Pole	12	
Bigtooth Aspen	25	Log/Pole	10	66
White Pine	25	XLog/Log/Pole	22	135
Sugar Maple	15	XLog/Log/Pole	18	
Red Maple	10	Pole/Log	8	
Cottonwood	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	10 - 20 feet	Sapling
Ironwood	Low	>20 feet	Sapling
Beech	Medium	Variable	Sapling

**34** 4133 - Aspen, Mixed Pine Sapling Well 69.4 6 Immature N/A Area harvested in fall of 2018 for mix of aspen, pine, mixed hardwood regeneration. Lots of Oak and pine left along with retention areas.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Log/Pole	10	78
Bigtooth Aspen	45	Sapling	1	6
Red Maple	15	Sapling	1	
Red Oak	20	Log/Pole	12	105

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Medium	< 5 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling

**35** 4199 - Other Mixed Upland Deciduous Sapling Well 18.6 6 1-50 N/A Area harvested in January of 2018. Veteran white pine in patches. Old WP stumps.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/XLog/Pole	17	135
Sugar Maple	3	Log/Pole	12	
Red Maple	42	Sapling	1	6
Red Oak	5	Log/XLog/Pole	14	
Bigtooth Aspen	30	Sapling	1	6
Beech	10	Sapling	1	

**36** 42110 - Planted Red Pine Poletimber Well 10.7 67 141-170 N/A Was 3rd-row thinned (1st thinning). 2nd thinning (select) was done in March, 2018.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	3	Log	14	
Red Pine	97	Log/Pole	10	67

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Beech	Medium	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling

**37** 4112 - Maple, Beech, Cherry Association Sawtimber Well 13.2 88 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	10	Log/Pole	13	
Bigtooth Aspen	8	Pole/Log	9	
Red Oak	2	Pole/Log	9	
Red Maple	50	Log/Pole	12	88
Sugar Maple	30	Log/Pole	12	88

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	>20 feet	Sapling
Sugar Maple	Low	>20 feet	Pole
White Pine	Low	>20 feet	Sapling
Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
<b>38</b>	42110 - Planted Red Pine	Poletimber Well	7.4	67	111-140	N/A	2nd (select) thinning done in February 2018																																																														
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<b>39</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.4		Unspecified	No	This is used for 2 track and landing area for surrounding stands.																																																														
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<b>40</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	34.9	37	81-110	N/A	Mosaic of aspen sapling patches, oak/hardwood/aspen poles, and patches of white pine and white spruce plantation - very diverse stand.																																																														
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<b>41</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.4		Unspecified	No	2004 WLD survey: A few log cherries. 1/2 bracken fern, 1/2 poverty grass. A few seedling/sapling pine mixed. Spotted knapweed mixed in with poverty grass. Patch of cool summer grasses with ragweed along east edge.																																																														
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<b>42</b>	6229 - Mixed lowland shrub	Nonstocked	7.8		Unspecified	No	2004 WLD survey: All shrubs, mountain holly, buttonbush, and willow. Some leatherleaf, sedges, and fern. Unlisted species is ostrich fern.																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
43	4139 - Aspen, Mixed Deciduous	Sapling Well	31.5	6	Immature	N/A	Nice variable species stand. Area harvested in fall of 2018. Old RR grade toward N end.																																																			
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44	6229 - Mixed lowland shrub	Nonstocked	2.7		Unspecified	No	Stand cover / info from a 2004 wildlife div survey: A little more open, less shrubs, then mixed lowland shrub that is immediately NE. Unlisted species is ostrich fern.																																																			
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46	4130 - Aspen	Poletimber Well	65.1	37	Unspecified	N/A	Many scattered remnant retention large saw log white pine and red oak. Many Low wet areas with pockets of hemlock and cedar around them.																																																			
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47	4123 - Red Oak	Sawtimber Medium	27.7	128	51-80	N/A	Was cut in 2004, (sale# 2-01) . (seed tree/shelterwood)Oak regen research plots in stand.very minimal oak seedlings and they are not growing muchOak wilt pockets NW and S areas of stand. Small clearcut area in south end is from a oak wilt treatment.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**48** 4123 - Red Oak Sawtimber Poor 19.8 108 1-50 N/A Shelter wood cut in 7/2008., (oak regen. in 2010, but not advancing yet), some browsing pressure.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Log/Pole	12		Red Oak	Low	Variable	Sapling
Red Oak	80	Log/Pole/XLog	17	108	Bigtooth Aspen	Medium	>20 feet	Sapling
Red Maple	10	Log/Pole	12		Black Cherry	Low	>20 feet	Sapling
Sugar Maple	5	Log/Pole	12		Beech	Medium	>20 feet	Sapling
					Ironwood	Medium	>20 feet	Sapling
					Red Maple	Medium	>20 feet	Sapling

Oak wilt pocket in northwest corner of stand. It has been treated with vibratory plow.

**49** 4111 - S.Maple, Hard Mast Association Sawtimber Well 30.5 108 81-110 N/A East 1/2 thinned in 1998., All was thinned again in fall/winter of 2019 and sale completed 6/16/20.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	12		Ironwood	High	Variable	Sapling
Beech	15	Log/Pole	14		Beech	High	Variable	Sapling
Basswood	30	Log/Pole	14					
Black Cherry	5	Log	12					
Sugar Maple	40	Log/Pole	12	108				

**50** 4112 - Maple, Beech, Cherry Association Sawtimber Well 50.7 82 81-110 N/A Many maple are multi-stemmed.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	80	Log/Pole	10	82	Black Cherry	Low	Variable	Sapling
Sugar Maple	5	Log/Pole	10		Ironwood	High	Variable	Sapling
Quaking Aspen	5	Pole	8		Beech	High	Variable	Sapling
Red Oak	10	Pole/Log	8	57				

**51** 3103 - Rubus-Fern Nonstocked 1.4 Unspecified No Datat from 2004 wildlife Div survey and comments: Nice, little opening. Unlisted ground species is hawkweed.

Sub-Canopy Species	Density	Avg. Height	Size
Oak (spp.)	Trace		Sapling
Black Cherry	Low		Sapling
Bracken Fern	High		Non-Wood
Poverty Grass	Low		Non-Wood
St. Johns Wort	Trace		Non-Wood
Unlisted - See Comments	Full		
Sugar Maple	Low		Pole
Cladonia (Reindeer moss)	Low		Non-Wood

**52** 42140 - Planted Mixed Pine Poletimber Well 15.2 29 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	6	Log/Pole	12	
Red Pine	50	Pole	5	29
Jack Pine	40	Pole	5	
Black Cherry	4	Pole/Log	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
53	4123 - Red Oak	Poletimber Well	7.5	79	51-80	N/A	Mixed size/age oak.																																														
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54	3303 - Mixed Low Density Trees	Nonstocked	2.4		Unspecified	No	This opening used for access and landing areas for logging activities in adjacent stands.																																														
55	3303 - Mixed Low Density Trees	Nonstocked	12.6		Unspecified	No	Mix of many species of trees. Many individual and small island clumps of mature black cherry, sugar maple and red maple trees that have advanced sugar maple saplings around the edges. Snowmobile trail runs thru this opening.																																														
56	4112 - Maple, Beech, Cherry Association	Sapling Well	1.3	27	1-50	N/A																																															
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57	4123 - Red Oak	Sawtimber Medium	33.6	101	1-50	N/A	Was seed tree cut in 1997 (31-96).																																														
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58	3303 - Mixed Low Density Trees	Nonstocked	2.5		Unspecified	No	This opening used for access and landing areas for logging activities in adjacent stands.  old oil/gas well site along west most edge...was plugged in 1997																																														
59	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.3	107	51-80	N/A	Thinning was done fall/winter of 2019 and sale complete 6/16/20sale 61-055-17																																														
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<b>60</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	59.6	60	81-110	N/A	Various aged quaking aspen clones in a mosaic with northern hardwood. Numerous small openings. Q. aspen poor quality, succeeding to hardwood.																																															
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<b>61</b>	4139 - Aspen, Mixed Deciduous	Poletimber Medium	14.2	65	Unspecified	N/A	Small openings within stand.																																						
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<b>62</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	43.4	107	51-80	N/A	Cut March 2011: removed all aspen and ironwood, thinned hardwoods/oak. One small patch of aspen was left out of the sale for retention.  A few black cherry present.																																					
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Sub-Canopy Species	Density	Avg. Height	Size																																									
Sugar Maple	Medium	Variable	Sapling																																									
Red Oak	Low	Variable	Sapling																																									
Beech	High	Variable	Sapling																																									

<b>63</b>	3301 - Low Density Deciduous Trees	Nonstocked	1.1		Unspecified	No	Mainly sugar maple, oak, and some basswood. Open areas are dominated by poverty grass/cladonia, with some sheep's sorrow in between trees. Bracken fern/rubus underneath trees. Unlisted specie is hawkweed.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>64</b>	4110 - Sugar Maple Association	Sawtimber Medium	7.4	100	81-110	N/A	Thinned 7/2008 which seemed to only stimulate ironwood and beech regen saplings.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log/Pole	12	100
Red Oak	3	Pole/Log	9	
Black Cherry	2	Log/Pole	13	
Basswood	20	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	>20 feet	Sapling
Beech	Low	>20 feet	Sapling

<b>65</b>	31021 - Cool Season Grass	Nonstocked	1.7		Unspecified	Managed Opening	Oil/gas well site. inactive/plugged in 2015.
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Sub-Canopy Species	Density	Avg. Height	Size
Unlisted - See Comments	Low		
Mixed Grasses	High		Non-Wood

<b>66</b>	4112 - Maple, Beech, Cherry Association	Sapling Medium	4.7	10	1-50	N/A	This is Small clearcut due to oak wilt (was a part of adjacent stand 47).
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	70	Sapling	1	10
Beech	10	Sapling	1	
Black Cherry	20	Sapling	1	

<b>67</b>	3104 - Degraded	Nonstocked	2.1		Unspecified	No	Inventory of species done by wildlife division in 2004. Notes from wildlife Div in 2004: Farthest east portion mainly spurge, with hawkweed and some strawberry. Unlisted is hawkweed, mullein, bugemot, bull thistle. Also, wild bugemot and pigweed present.
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Sub-Canopy Species	Density	Avg. Height	Size
Leafy Spurge	Medium		Non-Wood
Red Maple	Trace		Log
Blackberry/Raspberry	Medium		Tall Shrub
Spotted Knapweed	Low		Non-Wood
Vetch	Trace		Non-Wood
Strawberry	Low		Non-Wood
Serviceberry (Juneberry)	Trace		
Unlisted - See Comments	Trace		
Bracken Fern	Low		Non-Wood
Mixed Grasses	Medium		Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>68</b>	3301 - Low Density Deciduous Trees	Nonstocked	4.5		Unspecified	No	Species inventory listed was done by wildlife division in 2004. Notes from 2004: Allot of poverty grass, cladonia, hawkweed, rubus. Bracken fern located along perimeter and the NE portion. Seedling red maples underneath large black cherries.				
								Sub-Canopy Species	Density	Avg. Height	Size
								St. Johns Wort	Trace		Non-Wood
								Oak (spp.)	Trace		Pole
								Poverty Grass	High		Non-Wood
								Cladonia (Reindeer moss)	High		Non-Wood
								Blackberry/Raspberry	Medium		Tall Shrub
								Bracken Fern	Low		Non-Wood
								Sugar Maple	Trace		Log
								Red Maple	Low		Seeding
								Black Cherry	Low		Pole
								Juniper	Trace		Tall Shrub
Unlisted - See Comments	High										
Serviceberry (Juneberry)	Trace										

<b>69</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	34.5	106	81-110	N/A	Was thinned in 2000-2001... Good sugar maple regen after thinning. Mature beech in overstory very large and limby.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	45	Log/Pole	14	106	Beech	Medium		Variable	Sapling
Basswood	25	Log	14	106	Sugar Maple	High		Variable	Sapling
Beech	30	XLog/Log	18	106	Sugar Maple	Low		>20 feet	Pole

<b>70</b>	4130 - Aspen	Poletimber Well	9.8	57	81-110	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	8	Log/Pole	12		Sugar Maple	Medium		Variable	Sapling
Bigtooth Aspen	90	Log/Pole	10	57	Beech	Low		Variable	Sapling
Beech	2	Log/Pole	12		Red Maple	Medium		Variable	Sapling

<b>71</b>	4130 - Aspen	Poletimber Well	114.4	31	Unspecified	N/A	Scattered residual oak & other hardwoods. Seasonally wet in places.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log/Pole	10		Black Cherry	Low	10 - 20 feet	Sapling
Black Cherry	8	Pole	7	31	Red Maple	Low	Variable	Sapling
Quaking Aspen	90	Pole	7	31				

<b>72</b>	330 - Low-Density Trees	Nonstocked	1.5	0	Unspecified	No	was treated with stand 30
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**74** 4110 - Sugar Maple Association Sawtimber Medium 8.5 82 51-80 N/A Almost pure basswood. Lots of mixed hardwood seedlings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	80	Log	14	82	Sugar Maple	Medium	Variable	Sapling
Bigtooth Aspen	10	Log	14		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Sugar Maple	10	Pole/Log	8		Ironwood	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling
					Beech	Low	Variable	Sapling

**75** 6112 - Lowland Aspen Poletimber Medium 16.4 71 Unspecified N/A Some of stand on low dry ridges, but mostly wetland. A few red oak, white pine on ridges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Log/Pole	10	71	Red Maple	Medium	Variable	Sapling
Black Cherry	2	Log/Pole	10		Wild Raisin	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	6	Log/Pole	11		Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	40	Pole/Log	9	71				
Red Oak	2	Log/Pole	14					

**76** 6221 - Fen Nonstocked 4.9 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Sphagnum Moss	Full		Non-Wood
Gray Dogwood	High		Tall Shrub
Quaking Aspen	Low		Pole
Blueberry/Bilberry/Cranberry	Low		Tall Shrub
Sedges	High		Non-Wood
Wild Raisin	Low		Tall Shrub
Red Maple	Trace		Sapling
Paper Birch	Trace		Sapling

**77** 4110 - Sugar Maple Association Sawtimber Well 31.8 102 81-110 N/A lots of multi-stem trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Log/Pole	12		Beech	Low	>20 feet	Sapling
Basswood	15	Log/Pole	14		Sugar Maple	Low	5 - 10 feet	Sapling
Sugar Maple	65	Log/Pole	12	102	Ironwood	Low	>20 feet	Sapling
Bigtooth Aspen	15	Log	16	76				

Ring count on aspen is shaky.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
78	4110 - Sugar Maple Association	Sawtimber Well	69.5	102	81-110	N/A	Scattered bigtooth aspen clones and small openings. Some red oak in stand too.																																											
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79	31021 - Cool Season Grass	Nonstocked	1.8		Unspecified	Managed Opening	Old well pad. Unlisted species is clover.																																											
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81	4130 - Aspen	Sapling Well	3.6	16	Unspecified	N/A	Treated under contract 61-054-06-01. cut in Aug. 2007 (all aspen and red maple was cut). Any other species on site was left uncut and should remain until aspen matures again.																																											
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82	4130 - Aspen	Sapling Well	4.6	16	Unspecified	N/A	treated under contract 61-054-06-01. cut in Aug. 2007 (all aspen and red maple was cut). Any other species on site was left uncut...long lived species that will make it until aspen matures again.																																											
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83	4130 - Aspen	Sapling Well	21.0	16	Unspecified	N/A	treated under contract 61-054-06-01. cut in Aug. 2007 (all aspen and red maple was cut). Any other species on site was left uncut (wp, oak, cherry) and will remain until aspen matures.																																											
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85	4130 - Aspen	Sapling Poor	9.7	15	1-50	N/A	Was clearcut w/residual BA 19 sq ft, cut in fall 2008.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**86** 4130 - Aspen Sapling Well 10.4 15 1-50 N/A Was clearcut w/residual BA 16 sqft, cut in fall 2008.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Sapling	2	15
Red Maple	5	Sapling	2	15
Red Oak	10	Log/Pole	14	105
White Pine	10	Pole/Sap/Log	8	

**87** 4130 - Aspen Sapling Well 3.3 14 Unspecified N/A Area was cut in winter of 2010-2011.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	15	Log	16	96
Red Maple	5	Sapling	2	14
White Pine	10	Pole/Log	8	
Bigtooth Aspen	70	Sapling	2	14

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling

**88** 4199 - Other Mixed Upland Deciduous Sawtimber Well 18.9 108 81-110 N/A W. pine regen mostly west end but spreading east.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Log	10	
Red Maple	25	Log/Pole	10	
Beech	5	XLog/Log/Pole	18	
Red Oak	50	Log/Pole/XLog	17	108
Bigtooth Aspen	15	Log/Pole	16	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Maple	Low	Variable	Pole
Ironwood	Low	Variable	Sapling
Beech	Medium	Variable	Sapling

**89** 4110 - Sugar Maple Association Sawtimber Well 2.9 90 51-80 N/A Lots of old open-grown multi-stem maple.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	9	90
Red Oak	10	Pole/Log	9	
Black Cherry	5	Pole/Log	9	
Sugar Maple	75	Log/Pole	16	90

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Ironwood	Low	Variable	Sapling

**90** 4130 - Aspen Sapling Medium 16.1 16 1-50 N/A Stand clearcut July 2008.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	35	Sapling	2	16
Quaking Aspen	50	Sapling	2	16
Black Cherry	5	Sapling	2	16
Red Maple	5	Sapling	1	16
Red Oak	5	Pole/Log/Sap	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>91</b>	4130 - Aspen	Sapling Medium	9.5	15	Unspecified	N/A	Clearcut in 10/2008 under TSC #610370601. Scattered mature leave trees: RM, BC, RO.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	2	15
Black Cherry	5	Sapling	2	15
White Pine	15	Sapling	2	

<b>92</b>	4123 - Red Oak	Sawtimber Well	9.5	106	51-80	N/A	Manage for mix oak-white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole/Log	8	
Bigtooth Aspen	5	Pole	8	
Red Oak	90	Log/Pole	14	106
White Oak	2	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Pole
White Pine	High	Variable	Sapling

<b>93</b>	4130 - Aspen	Poletimber Well	15.6	71	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log/Pole	12	
Black Cherry	3	Log/Pole	12	
Bigtooth Aspen	88	Pole/Log/Sap	8	71
White Pine	2	Log/Pole	12	
Quaking Aspen	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling

<b>95</b>	4130 - Aspen	Poletimber Medium	3.2	71	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	88	Pole/Log	9	71
Black Cherry	3	Log/Pole	10	
White Pine	2	Log/Pole	12	
Red Maple	2	Log/Pole	10	
Quaking Aspen	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	Variable	Sapling

<b>100</b>	4131 - Aspen, Oak	Poletimber Well	54.5	55	81-110	N/A	Younger aspen with a prior residual older RO, WP. WP now all sizes/ages. RM, RO, WP seedlings throughout. Lots of maple-leaved viburnum. A few white oak, sugar maple.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	25	Log/Pole	14	105
White Pine	15	Log/Pole	12	78
Bigtooth Aspen	50	Pole/Log	9	55
Red Maple	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**101** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 4.2 105 81-110 N/A This is a long-term retention strip left along cinder road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	35	Log/Pole	14	105	Red Maple	Low	10 - 20 feet	Sapling
White Pine	30	Log/Pole	12	78	White Pine	Medium	Variable	Sapling
Bigtooth Aspen	25	Pole/Log	8	55				
Red Maple	10	Log/Pole	10					

**103** 4119 - Mixed Northern Hardwoods Sawtimber Well 2.6 55 81-110 N/A This is long-term retention containing oak & pine this retention is associated with adjacent stand 43

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	11		Ironwood	High	Variable	Sapling
Beech	2	Log	14		Red Maple	Low	>20 feet	Sapling
Bigtooth Aspen	5	Pole/Log	9		White Pine	Medium	10 - 20 feet	Sapling
Sugar Maple	20	Log/Pole	11		Red Oak	Low	>20 feet	Sapling
Red Oak	32	Log/Pole	10	55				
Basswood	11	Log/Pole	12					

**104** 4130 - Aspen Poletimber Well 2.1 73 Unspecified N/A Retention area from adjacent stand 17. sale 61-074-16

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log	12		White Pine	Low	Variable	Sapling
Red Oak	10	XLog/Log/Pole	18	96				
Black Cherry	10	Log/Pole	10					
Bigtooth Aspen	75	Log/Pole	10	73				