



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61023

Entry Year 2023

Acreage: 1,604

County Benzie

Management Area: Benzie Outwash

Revision Date: 2021-05-18

Stand Examiner: Craig Allen

Legal Description:

T25N- R14W; Sections 1, 12, 13
Weldon Township, Benzie County

Identified Planning Goals:

Compartment 23 is a part of the Benzie Outwash management area (MA). Vegetation management in this MA will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character, including the Betsie River which is a designated natural river; and threatened, endangered and special concern species and provide for forest-based recreational uses and Native American non-commercial uses of forest products. Timber management for the next 10 years includes improving the age-class distribution of aspen and red pine. Northern hardwoods management includes continued selective or regeneration harvesting of northern hardwoods to achieve an uneven age-class structure or improve timber quality. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends in this 10-year planning period are increased recreational pressure on recreational trails and introduced insect and disease concerns, especially emerald ash borer and beech bark disease.

Soil and topography:

The soils in this area are Kalkaska soils comprised of excessively drained deep sands. The terrain is mostly level although the south half is rolling hills. A larger wetland complex is located in the southeast quarter of section 1.

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

This compartment is on the eastern end of a large area of state ownership in Weldon Township. The area is very rural with minimal private development. This compartment historically had some areas cleared with attempts towards homestead farming. Due to perhaps, poor soil conditions, along with some drainage issues, these efforts failed and the cleared areas were left barren. Later, some of these areas were either left to re-vegetated naturally or planted with red pine plantations that are present today. A large stand on the north end of the compartment was left in a semi-open condition and never planted.

Unique Natural Features:

There is a large wetland complex that is located in the southeast quarter of section 1, mostly on private land.

Archeological, Historical, and Cultural Features:

There are a few old homestead sites within or near the compartment. There are old, reclaimed railroad grades within or near the compartment that were used during the original logging days in this area around the turn of the century. These grades have mostly returned to a natural forest condition and can be quite difficult to distinguish.

Special Management Designations or Considerations:

There are no special management designations within this compartment.

Watershed and Fisheries Considerations:

The headwaters of Dair Creek are located in compartment 23. Dair Creek is a high-quality trout stream tributary to the Betsie River, and supports self-sustaining populations of brook trout, brown trout, steelhead, coho salmon, and chinook salmon.

Wildlife Habitat Considerations:

This compartment lies entirely within a broad flat outwash plain, with excessively drained soils. However, the northern two sections of this compartment do have several wet inclusions that harbor lowland tree and shrub species, such as blueberry, leatherleaf, willow, wild raisin, and quaking aspen. When necessary, habitat cuts should be used to regenerate these lowland habitat components.

Upland areas should continue to be managed for a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings consistent with fire driven dynamics that historically shaped vegetation on this Land Type Association (LTA). The aspen stands in this area have a component of white pine and hardwoods that should be used as

leave trees/clumps as the aspen is harvested. Red oak is also found occasionally and should be used as leave trees when harvesting surrounding aspen. The incorporation of snags, leave trees, brush piles, and downed logs in these cuts will help to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, and deer.

The southern section of this compartment is slightly hilly and dominated by northern hardwoods. This would be an area to try different methods of hardwood regeneration, such as small patch cuts within the hardwood stands along with the standard thinnings. Patch cuts should be designed to mimic small blowdowns that would occur in areas affected by wind, such as windward side of slopes or ridge tops. Hardwood treatments should be designed to incorporate the preservation of tree species diversity, the retention of mature mast producing trees, and the protection of den, cavity, and downed trees. Tops should be left onsite, unchipped, and in scattered piles for habitat. Species benefiting from management of this community type include the red-eyed vireo, four-toed salamander, common gray fox, and broad-winged hawk.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel operation is four miles away. There is good potential for sand & gravel within the compartment, particularly in Section 13. There are no current leases for oil and gas development within one mile of the compartment. The compartment is north of the Niagaran/Guelph reef trend and main Antrim Shale gas play. There is still some Antrim Shale gas potential in the compartment, but new Antrim development in this area, where existing infrastructure does not occur, are not likely to be economical at current gas prices. There is no known metallic mineral potential in this part of the state. (comments from Peter Rose)

Vehicle Access:

There are several gravel and seasonal county roads in and around the compartment offering good access to State lands. Thompsonville road running along the east edge of the compartment is the only paved road in the area. There are also a few forest 2-track roads in various areas of the compartment that are in good condition and are used for public and DNR land management access.

Survey Needs:

There are currently no survey needs in this compartment.

Recreational Facilities and Opportunities:

The Betsie River snowmobile trail travels along the north edge of the compartment on Aylsworth road. Various types of dispersed forest recreation occur in the area. Examples include hunting, trapping, cross-country skiing, hiking, orv riding, mushroom/berry picking, biking, horseback riding, and dispersed camping.

Fire Protection:

Wildfire protection is accomplished through coordination of local fire departments along with DNR fire staff. The majority of this compartment and surrounding areas are forested in mesic hardwood deciduous types so the opportunity for large scale wildfires are minimal.

Additional Compartment Information:

The following reports from the Inventory are attached:

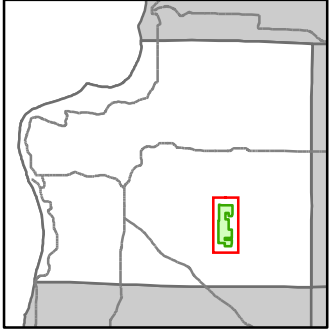
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

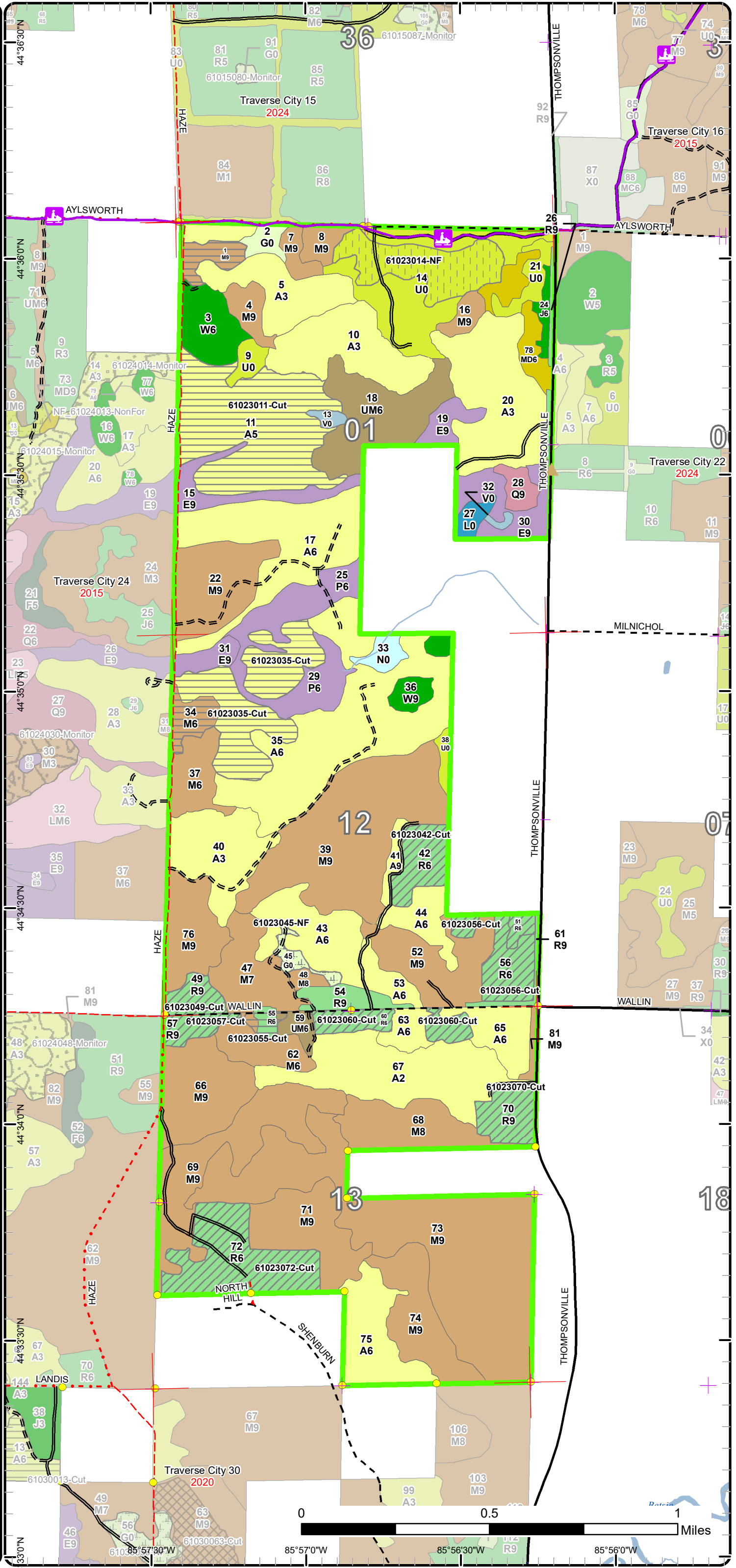
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 23
 T25N, R14W, Sec. 1, 12, 13
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Outwash
 YOE: 2023
 Acres: 1604.1 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review

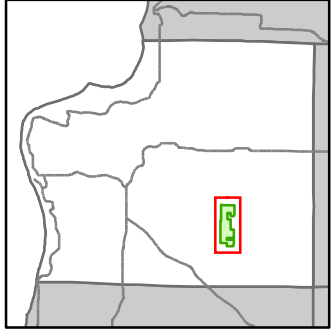


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- + Snowmobile Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

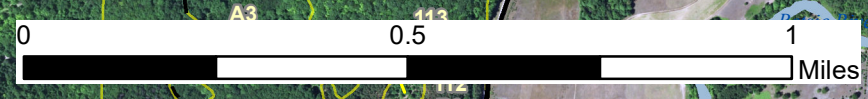
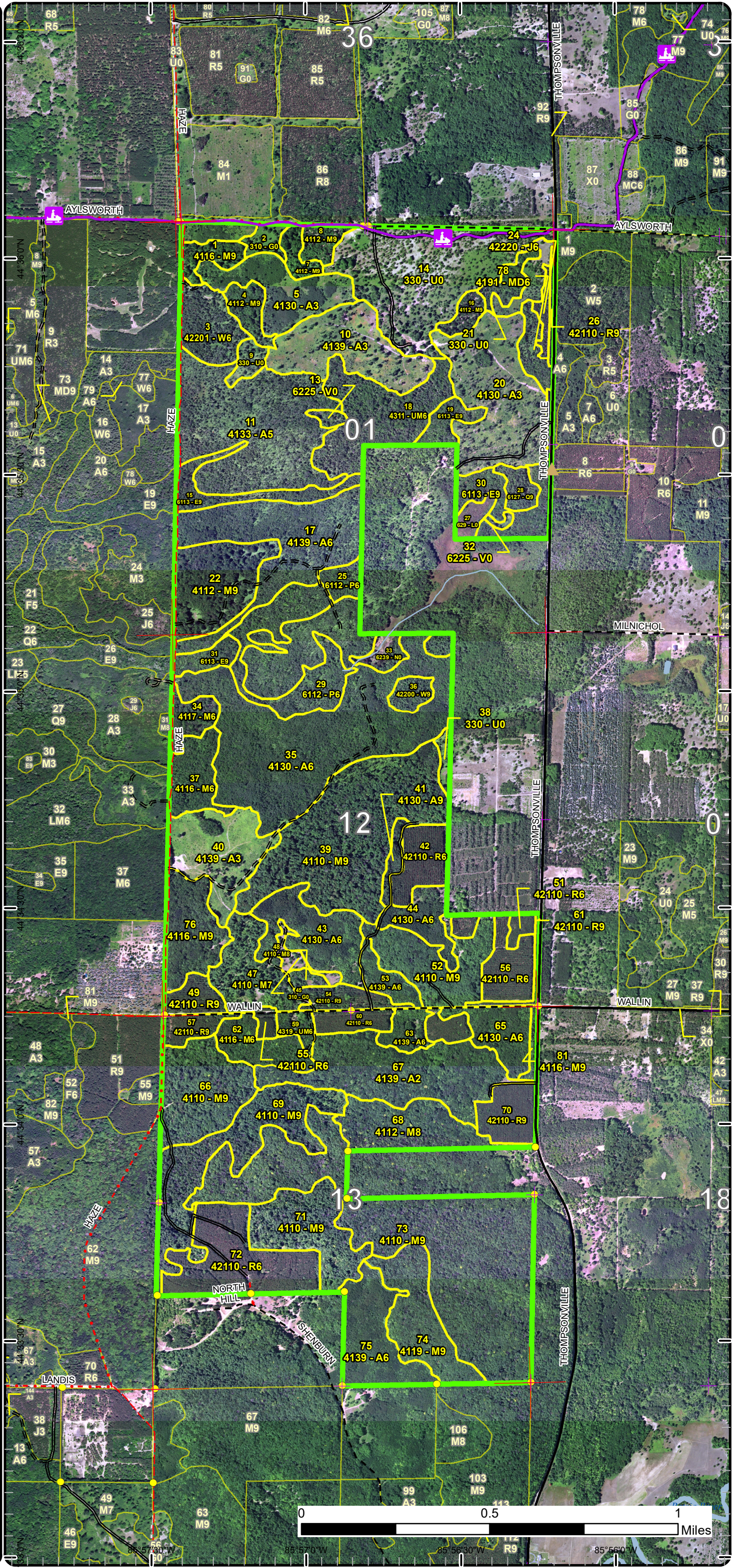


Stand Boundary Map

Compartment: 23
 T25N, R14W, Sec. 1, 12, 13
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Outwash
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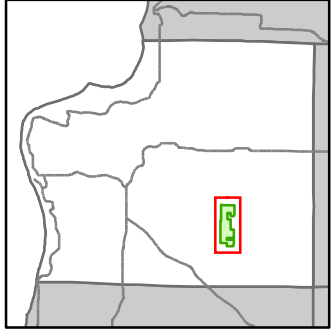


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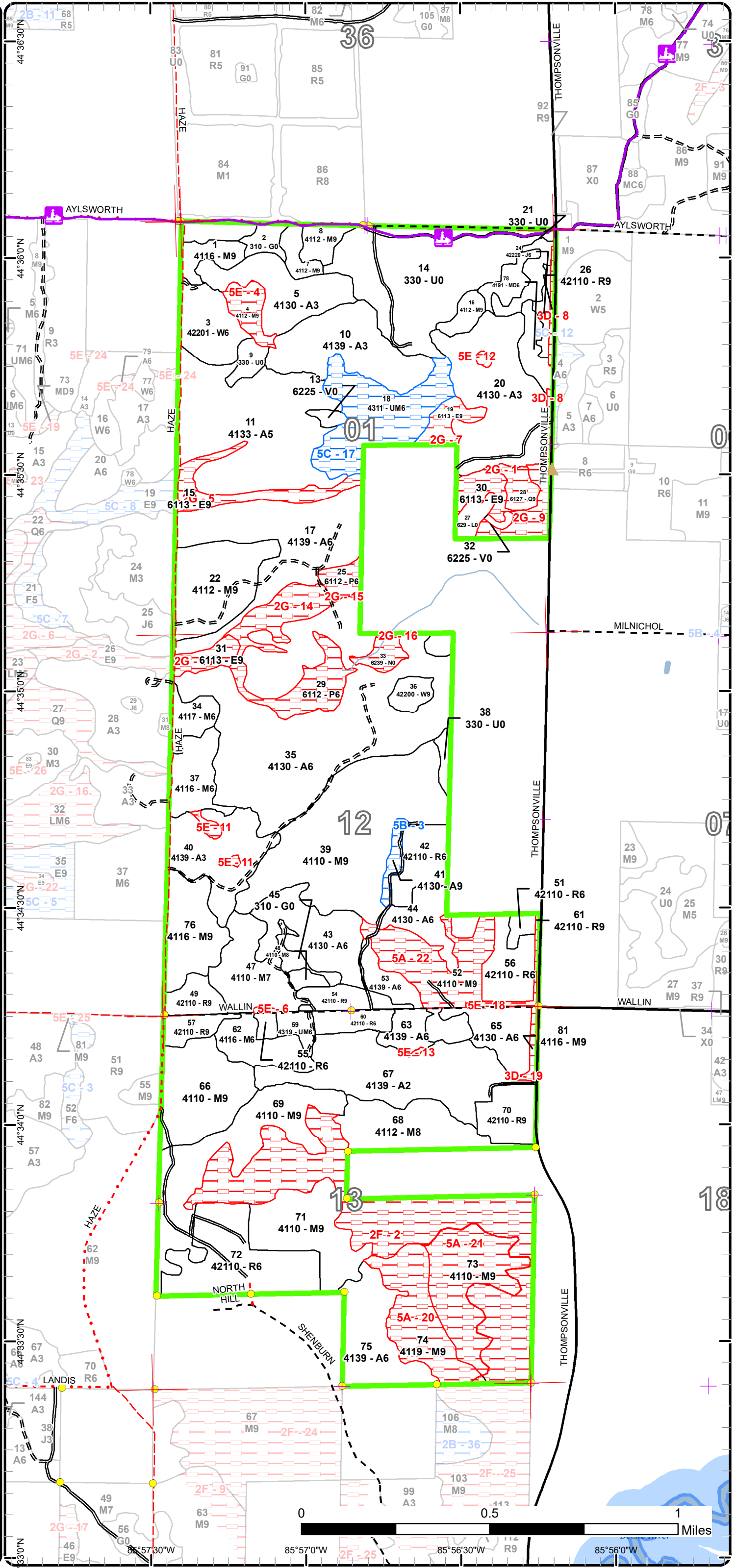


Special Conservation Areas

Compartment: 23
 T25N, R14W, Sec. 3, 10, 15
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Outwash
 YOE: 2023
 Acres: 1604.1 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review



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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	181	33	0	80	215	0	77	0	4	0	0	0	0	0	0	0	0	590
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Lowland Aspen/Balsam Poplar	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	48
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	14
Northern Hardwood	0	0	0	0	0	15	41	9	0	34	122	171	194	0	0	0	0	0	585
Red Pine	0	0	0	0	0	3	51	79	8	0	0	0	0	0	0	0	0	0	141
Upland Mixed Forest	0	0	0	0	0	0	5	39	0	0	0	0	0	0	0	0	0	0	44
White Pine	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	27
Total	109	181	33	0	80	274	97	219	35	38	170	171	200	0	0	0	0	0	1605



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 23
Total Compartment Acres: 1,604

Commercial Harvest - 264
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	Overstory Removal	Salvage	Other	Total Acres
Aspen	132	0	0	0	0	0	0	0	0	132
Northern Hardwood	8	0	0	0	0	0	0	0	0	8
Red Pine	3	0	0	0	0	120	0	0	0	124
Total	143	0	0	0	0	120	0	0	0	264

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	264	0	0	0	0	0	0	0	35	298
Next Step	0	0	0	0	0	0	143	0	0	143
Total	264	0	0	0	0	0	143	0	35	441



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

1	61023001-Cut	7.9	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stand when harvesting stand 11. Cut all aspen and select mark to remove multi-stem, poor form maple, cherry, white pine....leaving a component of each yet opening the canopy for aspen regeneration purposes.</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> aspen, maple, pine, cherry,</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
11	61023011-Cut	77.0	4133 - Aspen, Mixed Pine	Poletimber Medium	61	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to focus on expanding and regenerating aspen. Also cut merchantable white pine, leave sub- merchantable white pine understory. Mark to leave any large unique white pine or Maple for retention/diversity. Also, could mark some scattered retention islands of pine if needed. add drumming spec for grouse and spec for debris piles for rabbit/small mammals cover.</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> aspen, maple, cherry, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
14	61023014-NF	30.1	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maybe could do some type of firewood sale, like target red maple.</p> <p><u>Comment:</u> Use appropriate methods to protect snowmobile trail and its surface during project implementation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
35 61023035-Cut	54.9	4130 - Aspen	Poletimber Well	45	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwood trees to open stand for aspen regeneration along with cherry and maple. Also harvest any jack pine within the stand. <u>Specs:</u> Could have retention by marking any large unique maple as available. Also possibly make a few small retention islands as needed. Add grouse drumming log spec and debris pile spec for small mammals use. Will need to skid/forward logs across stand 29 at narrow location. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, cherry, <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
42 61023042-Cut	15.1	42110 - Planted Red Pine	Poletimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible <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 /2022</p>										
45 61023045-NF	4.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source. <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 /2022</p>										
49 61023049-Cut	8.4	42110 - Planted Red Pine	Sawtimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible <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 /2022</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
51 61023051-Cut	3.2	42110 - Planted Red Pine	Poletimber Well	48	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand--since we will also be thinning adjacent stand 56. The thinning of this stand will have to be cut two rows leave two rows because</p> <p><u>Specs:</u> the stand was originally planted too close together. They have grown slow and now barely merchantable. BA currently vary greatly but fall between 100-180.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
55 61023055-Cut	3.4	42110 - Planted Red Pine	Poletimber Well	65	201+	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Small stand...since never thinned before, need to harvest all trees to convert as much area to aspen as possible along with mix of other</p> <p><u>Specs:</u> hardwoods. When harvest.... harvest aspen areas that are in adjacent stands (west and east sides mainly) so aspen will expand into this old red pine area. Leave pine north of Wallin road as retention.</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, pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
56 61023056-Cut	17.8	42110 - Planted Red Pine	Poletimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed,</p> <p><u>Specs:</u> defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
57 61023057-Cut	7.1	42110 - Planted Red Pine	Sawtimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed,</p> <p><u>Specs:</u> defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
60 61023060-Cut	13.3	42110 - Planted Red Pine	Poletimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><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 /2022</p>										
70 61023070-Cut	14.2	42110 - Planted Red Pine	Sawtimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><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 /2022</p>										
72 61023072-Cut	41.2	42110 - Planted Red Pine	Poletimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><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 /2022</p>										

Total Treatment 298.1
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 23

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
590	582	4	3

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions							
					5B	5C	2F	2G	3D	5A	5E	
590	582	4	3		4			0	0			3
3	3	0	0									
9	9	0	0									
4	4	0	0						0			
86	86	0	0									
37	0	0	37					37				
6	0	0	6					6				
47	0	0	47					47	0			
5	5	0	0									
5	0	0	5					5				
14	14	0	0						0			
585	380	0	205				99		3	96		8
140	132	0	8						4			4
44	5	39	0			39						
27	27	0	0									
1,604	1,248	43	313		4	39	99	96	7	96		15
	78%	3%	20%									

**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	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2F: Too steep	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 23
 Year of Entry: 2023

3	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3D: Recreational / Scenic values	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 23

Year of Entry: 2023

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	3	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3D: Recreational / Scenic values	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5A: Not able to obtain desirable regeneration	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 23

Year of Entry: 2023

21	Unavailable	5A: Not able to obtain desirable regeneration	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5A: Not able to obtain desirable regeneration	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
----------	--------------	-------------	----------------	-------

Comments

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	7.9	95	81-110	N/A																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>60</td> <td>Log/Pole</td> <td>14</td> <td>95</td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>10</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	60	Log/Pole	14	95	Quaking Aspen	20	Pole/Log	9		White Pine	5	Pole/Log	8		Black Cherry	5	Log/Pole	12		Sugar Maple	10	Log/Pole	13		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Black Cherry	Low	< 5 feet	Sapling			
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White Pine	Low	Variable	Sapling																																													
Black Cherry	Low	< 5 feet	Sapling																																													

2	310 - Herbaceous Openland	Nonstocked	4.9		Unspecified	No	natural opening
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3	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	18.7	70	51-80	N/A																																
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Sub-Canopy Species	Density	Avg. Height	Size																																			
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4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.1	95	81-110	N/A	decent quality																																							
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Ironwood	Low	< 5 feet	Sapling																																											

5	4130 - Aspen	Sapling Well	33.4	16	Unspecified	N/A																									
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Canopy Species	% Cover	Size Class	DBH	Age																											
Red Maple	20	Sapling	2	16																											
Quaking Aspen	30	Sapling	2	16																											
Bigtooth Aspen	40	Sapling	2	16																											
Black Cherry	10	Sapling	2	16																											

7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.5	110	1-50	N/A	lots of multi stemmed																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.5	110	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		50	Log/Pole	11	110	Sugar Maple	Medium	Variable	Sapling
Red Maple		47	Log/Pole	11		Red Maple	Low	Variable	Sapling
Black Cherry		3	Log/Pole	10		Beech	Medium	Variable	Sapling
						Ironwood	Medium	Variable	Sapling
9	330 - Low-Density Trees	Nonstocked	4.9		Unspecified	No			
10	4139 - Aspen, Mixed Deciduous	Sapling Well	37.1	7	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		42	Sapling	1	7	White Pine	Low	Variable	Sapling
Quaking Aspen		40	Sapling	1	7				
Bigtooth Aspen		15	Sapling	1	7				
White Pine		3	Pole	8					
11	4133 - Aspen, Mixed Pine	Poletimber Medium	77.0	61	Unspecified	N/A	some areas sparse stocking and stunted growth.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		50	Pole	8	61	White Pine	Medium	Variable	Sapling
White Pine		30	Pole/Log	9		Black Cherry	Medium	Variable	Sapling
Black Cherry		20	Log/Pole	10	61				
13	6225 - Bog	Nonstocked	2.2		Unspecified	No			
14	330 - Low-Density Trees	Nonstocked	70.5		Unspecified	No	Cladonia, poverty grass, black berry, scatt wp poles, scatt rp saps, skw, sjw, black cherry, bracken, Scatt jp saps, scatt rubus, small patches of lbs, chuck full of cladonia.		
15	6113 - Lowland Maple	Sawtimber Well	14.7	90	51-80	N/A	seasonal drainage...has water within most times of year.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		100	Log/Pole/XLog	15	90	Red Maple	Medium	Variable	Sapling
						Red Maple	Medium	Variable	Pole
						Quaking Aspen	Low	Variable	Sapling
16	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.3	90	51-80	N/A	Stand was select thinned in Feb. 2016		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Maple		85	Log/XLog	14	90	Black Cherry	Low	< 5 feet	Sapling
Black Cherry		5	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
17	4139 - Aspen, Mixed Deciduous	Poletimber Well	55.1	45	Unspecified	N/A																																										
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18	4311 - Pine, Aspen Mix	Poletimber Well	38.9	61	81-110	N/A	occasional oak tree																																									
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24	42220 - Natural Jack Pine	Poletimber Well	3.7	45	Unspecified	N/A	natural, seed in from adjacent stand.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
25	6112 - Lowland Aspen	Poletimber Well	5.8	45	51-80	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	50	Pole	8	45	White Pine	Low	Variable	Sapling
White Pine	30	Log/Pole	12		Hemlock	Low	>20 feet	Pole
26	42110 - Planted Red Pine	Sawtimber Well	4.4	78	81-110	N/A	Thin strip of pine planted along edge of Thompsonville road for wind break and erosion control. Retain	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole	10		Red Maple	Low	Variable	Sapling
Red Pine	85	Log/Pole	12	78	White Pine	Low	Variable	Sapling
Jack Pine	5	Pole/Log	8					
27	629 - Mixed non-forested wetland	Nonstocked	4.7		Unspecified	No		
28	6127 - Lowland Pine	Sawtimber Well	6.1	110	81-110	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	12		Red Maple	Low	Variable	Pole
Bigtooth Aspen	15	Log/Pole	13	78	Red Maple	High	Variable	Sapling
White Pine	80	Log/Pole	17	110	White Pine	Low	Variable	Sapling
					Beech	Low	Variable	Sapling
29	6112 - Lowland Aspen	Poletimber Well	31.5	45	Unspecified	N/A	drainage	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	3	Pole	8		Red Maple	Medium	Variable	Sapling
Red Maple	30	Pole	8					
Quaking Aspen	54	Pole	8	45				
Northern White Cedar	10	Pole/Log	9					
Hemlock	3	Pole/Log	8					
30	6113 - Lowland Maple	Sawtimber Well	18.5	91	81-110	N/A	also contains some tamarack	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	85	Log/Pole	12	91	Red Maple	High	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	12		Red Maple	High	Variable	Pole
White Pine	5	Log	17		White Pine	Low	< 5 feet	Sapling
31	6113 - Lowland Maple	Sawtimber Well	6.7	90	81-110	N/A	drainage...standing water (possible flow) within.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	100	Log/Pole	13	90	Red Maple	High	Variable	Sapling
32	6225 - Bog	Nonstocked	1.1		Unspecified	No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33	6239 - Mixed Emergent Wetland	Nonstocked	5.5		Unspecified	No	
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34	4117 - Mixed N. Hardwood - Pine	Poletimber Well	8.8	67	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	11		Red Maple	High	Variable	Sapling
Quaking Aspen	5	Pole	7		Beech	Low	Variable	Sapling
Jack Pine	30	Pole	8	67				
Black Cherry	40	Log/Pole	13	67				

35	4130 - Aspen	Poletimber Well	136.0	45	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8	45	Red Maple	Medium	Variable	Sapling
Quaking Aspen	35	Pole	8	45				
Bigtooth Aspen	35	Pole/Log	8	45				
Black Cherry	10	Pole/Log	8	45				

36	42200 - Natural White Pine	Sawtimber Well	8.2	76	81-110	N/A	aspen was cut when adjoining stand was cut.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole	8	45	Red Maple	Medium	Variable	Sapling
White Pine	90	Log/Pole	18	76	White Pine	Low	< 5 feet	Sapling

37	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	16.1	58	81-110	N/A	May have some seasonally wet areas with stand, also has a few scattered balsam fir and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole/Log	9	58	Red Maple	Full	Variable	Sapling
Bigtooth Aspen	35	Pole/Log	9	58	Beech	Low	Variable	Sapling
Black Cherry	30	Log/Pole	10	58				

38	330 - Low-Density Trees	Nonstocked	3.2		Unspecified	No	
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39	4110 - Sugar Maple Association	Sawtimber Well	85.3	107	81-110	N/A	Stand was select thinned in late winter and spring of 2006.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	65	Log/Pole	14	107	Sugar Maple	Low	Variable	Sapling
Red Maple	10	Log/Pole	13		Sugar Maple	Low	Variable	Pole
Basswood	15	Log/Pole	14		White Ash	Low	< 5 feet	Sapling
Beech	10	Log/Pole/XLog	15		Beech	Low	Variable	Sapling
					Ironwood	High	< 5 feet	Sapling

Lots of large, down, woody debris and standing dead snags due to dead ash trees.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
40	4139 - Aspen, Mixed Deciduous	Sapling Well	33.2	7	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Sugar Maple		10	Sapling	1					
Red Maple		35	Sapling	1	7				
Bigtooth Aspen		45	Sapling	1	7				
Black Cherry		10	Sapling	1					
41	4130 - Aspen	Sawtimber Well	4.4	80	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Log/Pole	12	80	Sugar Maple	High	Variable	Sapling
Bigtooth Aspen		60	Log/Pole	13	80	White Ash	Medium	Variable	Sapling
42	42110 - Planted Red Pine	Poletimber Well	15.1	58	171-200	N/A	was thinned in		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	58	Beech	Low	< 5 feet	Sapling
43	4130 - Aspen	Poletimber Well	28.6	37	Unspecified	N/A	Also has a few basswood.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Pole	7		Sugar Maple	Medium	Variable	Sapling
Red Maple		10	Pole/Log	8		Black Cherry	Low	Variable	Sapling
Quaking Aspen		20	Pole/Log	8		Ironwood	Medium	Variable	Sapling
Bigtooth Aspen		50	Pole/Log	9	37				
Black Cherry		10	Pole	7					
44	4130 - Aspen	Poletimber Well	13.4	37	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Pole	7		Black Cherry	Medium	Variable	Sapling
Bigtooth Aspen		90	Pole	8	37	Ironwood	Medium	Variable	Sapling
Black Cherry		5	Pole	7					
45	310 - Herbaceous Openland	Nonstocked	4.5		Unspecified	No			
47	4110 - Sugar Maple Association	Sawtimber Poor	24.8	107	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		70	Log/Pole	12	107	Sugar Maple	Medium	Variable	Sapling
Basswood		30	Log/Pole	14		Sugar Maple	Low	Variable	Pole
						Bigtooth Aspen	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	4110 - Sugar Maple Association	Sawtimber Medium	2.7	87	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		10	Log/Pole	11		Sugar Maple	Medium	Variable	Sapling
Black Cherry		90	Log/Pole	11	87	Honeysuckle (spp.)	High	< 5 feet	Tall Shrub
49	42110 - Planted Red Pine	Sawtimber Well	8.4	58	171-200	N/A	Thinned in 2004		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	12	58	Beech	Medium	< 5 feet	Sapling
51	42110 - Planted Red Pine	Poletimber Well	3.2	48	111-140	N/A	Trees were planted in a sand blow eroded area. Growth slow and poor quality, many multi stemmed trees		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Pole	5	48				
52	4110 - Sugar Maple Association	Sawtimber Well	31.0	107	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		89	Log/Pole	13	107	Beech	Medium	Variable	Sapling
Red Maple		3	Log/Pole	13		Ironwood	High	Variable	Sapling
White Ash		3	Log/Pole	13					
Bigtooth Aspen		5	Log/Pole	12					
53	4139 - Aspen, Mixed Deciduous	Poletimber Well	8.4	37	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Sugar Maple		5	Pole/Sapling	6	37				
Red Maple		40	Pole/Sapling	6	37				
Beech		5	Pole/Sapling	6	37				
Bigtooth Aspen		40	Pole/Sapling	6	37				
Black Cherry		5	Pole/Sapling	6	37				
Ironwood		5	Pole/Sapling	6	37				
54	42110 - Planted Red Pine	Sawtimber Well	9.3	58	111-140	N/A	thinned 2004		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	58	Beech	Medium	< 5 feet	Sapling
						Sugar Maple	Low	Variable	Sapling
55	42110 - Planted Red Pine	Poletimber Well	3.0	65	201+	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	65	Beech	Medium	Variable	Sapling
56	42110 - Planted Red Pine	Poletimber Well	17.8	58	171-200	N/A	Thinned in 2004		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Log/Pole	10	58				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
57	42110 - Planted Red Pine	Sawtimber Well	7.1	65	171-200	N/A	Thinned 2004		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	10	65	Beech	Low	< 5 feet	Sapling
59	4319 - Mixed Upland Forest	Poletimber Well	5.0	55	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Pole/Log	8	55	Sugar Maple	Low	Variable	Sapling
White Spruce		45	Pole/Log	8		Red Maple	High	Variable	Sapling
Black Cherry		5	Pole/Log	8		Ironwood	Low	Variable	Sapling
60	42110 - Planted Red Pine	Poletimber Well	13.3	65	171-200	N/A	Thinned in 2004		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Pole/Log	9	65				
61	42110 - Planted Red Pine	Sawtimber Well	3.3	75	141-170	N/A	Thin strip of pine planted along edge of Thompsonville road as a windbreak and erosion control. Retain for visual aesthetic		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		15	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Red Pine		75	Log/Pole	12	75				
Jack Pine		10	Pole/Log	8					
62	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	15.0	46	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		15	Pole	8	46	Sugar Maple	Medium	Variable	Sapling
Red Maple		15	Pole	8	46	Red Maple	Medium	Variable	Sapling
Beech		5	Pole	8	46	Ironwood	High	Variable	Sapling
Bigtooth Aspen		40	Pole	8	46				
Black Cherry		25	Pole	8	46				
63	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.5	46	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		40	Pole	8	46	Red Maple	High	Variable	Sapling
Bigtooth Aspen		55	Pole	8	46	Beech	Low	< 5 feet	Sapling
Black Cherry		5	Pole	8	46				
65	4130 - Aspen	Poletimber Well	16.1	46	Unspecified	N/A	Also contains some sugar maple.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	8	46	Red Maple	High	Variable	Sapling
Quaking Aspen		15	Pole	8	46	Ironwood	Medium	Variable	Sapling
Bigtooth Aspen		65	Pole/Log	9	46				
Black Cherry		5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	4110 - Sugar Maple Association	Sawtimber Well	35.0	90	81-110	N/A	Aspen was cut out of stand in 1984
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/Pole	14	90	Beech	
Red Maple		5	Log/Pole	12		Medium	
Basswood		25	Log/Pole	14	90	High	
Black Cherry		5	Log/Pole	12		Variable	
Beech		5	Log/Pole	14		Sapling	
						Sapling	
67	4139 - Aspen, Mixed Deciduous	Sapling Medium	56.1	4	Immature	N/A	Contains many many scattered retention trees as individual and small groups.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		45	Sapling	1	4		
Red Maple		25	Sapling	1			
Beech		25	Sapling	1			
Ironwood		5	Sapling	1			
68	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	28.5	80	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		65	Log/Pole	13	80	Sugar Maple	
Red Maple		35	Log/Pole	13		Low	
						Medium	
						< 5 feet	
						Sapling	
69	4110 - Sugar Maple Association	Sawtimber Well	47.8	114	81-110	N/A	Was select thinned in 2005
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/Pole	14	114	Sugar Maple	
Red Maple		15	Log/Pole	13		Medium	
Basswood		15	Log/Pole	13		Medium	
Beech		5	Log/Pole	13		Variable	
Black Cherry		5	Log/Pole	11		Variable	
						Sapling	
70	42110 - Planted Red Pine	Sawtimber Well	14.2	65	171-200	N/A	Was thinned 2004
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log/Pole	10	65		
71	4110 - Sugar Maple Association	Sawtimber Well	32.4	95	81-110	N/A	Was select thinned 2005
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		75	Log/Pole	13	95	Sugar Maple	
Basswood		10	Log/Pole	13		Low	
Beech		15	Log/Pole	13		Medium	
						Variable	
						Variable	
						Sapling	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72	42110 - Planted Red Pine	Poletimber Well	41.2	65	171-200	N/A	Thinned twiced.... in 1994 and 2005
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	11	65	Beech	Medium	< 5 feet	Sapling

73	4110 - Sugar Maple Association	Sawtimber Well	134.0	114	111-140	N/A	Extremely hilly terrain. very difficult (machinery) access.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	65	Log/Pole	13	114	Sugar Maple	Medium	Variable	Pole
Red Maple	5	Log/Pole	12		Beech	Medium	Variable	Sapling
Basswood	15	Log/Pole	13		Ironwood	Low	Variable	Sapling
Beech	5	Log/Pole/XLog	14					
Bigtooth Aspen	5	Log/Pole	13					
Black Cherry	5	Log/Pole	12					

74	4119 - Mixed Northern Hardwoods	Sawtimber Well	30.1	100	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log/Pole/XLog	14	100	Sugar Maple	Medium	Variable	Pole
Red Maple	5	Log/Pole	13		Beech	Medium	< 5 feet	Sapling
Basswood	15	Log/Pole	13		Beech	Medium	Variable	Pole
Beech	30	Log/Pole/XLog	16					
Bigtooth Aspen	10	Log/Pole/XLog	15					

75	4139 - Aspen, Mixed Deciduous	Poletimber Well	29.1	37	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole/Sapling	6	37	Red Maple	Medium	Variable	Sapling
Red Oak	5	Pole/Sapling	6		Beech	Medium	Variable	Sapling
Bigtooth Aspen	55	Pole/Sapling	7	37				
Black Cherry	5	Pole/Sapling	6					

76	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	24.4	58	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	12		Red Maple	High	Variable	Sapling
Red Maple	45	Log/Pole	12	58	Ironwood	Low	Variable	Sapling
Bigtooth Aspen	35	Pole/Log	9	58				
Black Cherry	10	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 14.5 60 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log/Pole	14	60
Quaking Aspen	15	Pole	8	60
Bigtooth Aspen	15	Log/Pole	12	
White Pine	30	Pole/Log	9	

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

81 4116 - Mixed N. Hardwood - Aspen Sawtimber Well 2.8 80 51-80 N/A lots of beech bark disease

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	30	Log/Pole	12	80
Red Maple	30	Log/Pole	11	80
Beech	15	Log/Pole	11	
Bigtooth Aspen	25	Pole	8	

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