



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61026

Entry Year: 2026

Acreage: 1,883

County: Benzie

Management Area: Grand Traverse Moraine

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**Stand Examiner:** Craig Allen

### Legal Description:

Benzie County, T25N- R14W; sections 4, 9, 16

### 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:

The topography is mostly level except for a deep ravine containing Dair creek and part of its headwaters. The upland areas consist of the well drained Kalkaska- Rubicon soil association. Lowland areas of wet and semi- wet flats are made up of permeable Roscommon- Augres- Croswell soils.

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

This compartment is part of a large block of State land, which includes some scattered private ownerships. The areas lying to the west, south and east of this compartment are also mostly State owned. The area to the north is mostly private, and parceled into various ownerships mostly used for vacation and recreation.

"Homestead Orchards" and "Homestead Orchards 1" are two old platted subdivisions located in the southwest corner of section 4. These are 2 of 11 subdivisions in this area that were established between 1919 and 1927. Since that time most of the parcels became State property through tax reversion. There are only two small undeveloped parcels that remain in private ownership in section 4 (see map). Most of the platted roads (except some on sections lines) in these 11 subs were never installed.

### Unique Natural Features:

Dair Creek is located in section 16. This is a designated trout stream and "Natural River" as it is a tributary to the Betsie River.

### 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:

See attached proposed treatments.

### Watershed and Fisheries Considerations:

Dair Creek flows through Compartment 26. Dair Creek is a significant tributary of the Betsie River. Dair Creek is a Designated Trout Stream, with naturally reproducing populations of brook trout, brown trout, and rainbow trout (steelhead). Dair Creek is critical in that it produces a large percentage of the wild steelhead parr from the Betsie River watershed. Therefore, Dair Creek should receive the utmost protection. (Fish Div., Tonello)

### Wildlife Habitat Considerations:

Compartment 26 is located on a broad, flat outwash plain, with few lakes and wetlands. Topography is flat, with localized kettle lakes or wetlands. Presettlement vegetation varied but was mostly dominated by upland conifers. Large areas of wildfire were noted by GLO surveys. Windthrows were common, but not large. Present vegetation found here is mostly hardwoods and conifer plantations, but there have also been good opportunities to manage for early to mid-successional habitats like grassy openings and various age classes of aspen.

Some priority wildlife species within this compartment are white-tailed deer, ruffed grouse, golden-winged warbler, and woodcock. There has likely been red-shouldered hawks nesting within this compartment. Northern goshawk activity was noted in a compartment nearby by MNFI. The abundance of public land within this compartment provides many hunting and viewing opportunities of many wildlife species.

Openings and semi-forested habitats are an integral part of this dry outwash plain and were historically maintained by

periodic wildfire. These communities provide grasses and forbs for forage, nesting, and “bugging” areas. Scattered fruiting shrubs and mast producing trees provide food and cover. The “edge” component created by these grasslands is, yet another important habitat component provided. Mechanical treatments and prescribed burning have been proposed in several areas to maintain and enhance these communities by setting back woody (as well as bracken and sedge) encroachment, stimulating native herbaceous vegetation and berry production, preparing seed beds, and recycling nutrients. Selective hand felling will be used to set back encroachment where necessary.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is used for cement products. A gravel pit is located three miles to the southeast, but there may be some potential. This area is located northwest of the current Antrim Shale gas play and the Antrim appears to have potential. Some of the Compartment is leased and the rest is nominated for oil and gas leasing.

### **Vehicle Access:**

South Pioneer road (677) is a paved county road that borders the entire east side of this compartment. There are several seasonal county roads within this area offering good and easy access to State lands. There are also many forest “2-track” roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility.

### **Survey Needs:**

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

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

The Platte River State Snowmobile Trail runs along the south edge of the compartment on Landis road (seasonal county road) and along the north edge of section 9 then south toward the Weldon Township cemetery and continuing east across pioneer road. The Betsie Vally Rail Trail (open to snowmobiles in the winter, and non-motorized recreation trail use during non-winter seasons) travels diagonally through this compartment. Appropriate trail protection specifications should be used along all designated snowmobile trails. The Betsie Valley Rail Trail is an improved rail grade that warrants retention consideration to address aesthetic concerns. Hunting, trapping, mushroom hunting and dispersed camping are also popular recreational activities throughout the compartment.

### **Fire Protection:**

This area has wildfire protection by Traverse City DNR and local Fire Departments.

### **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:**

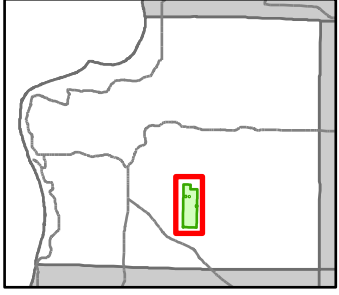
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

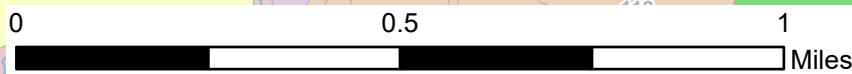
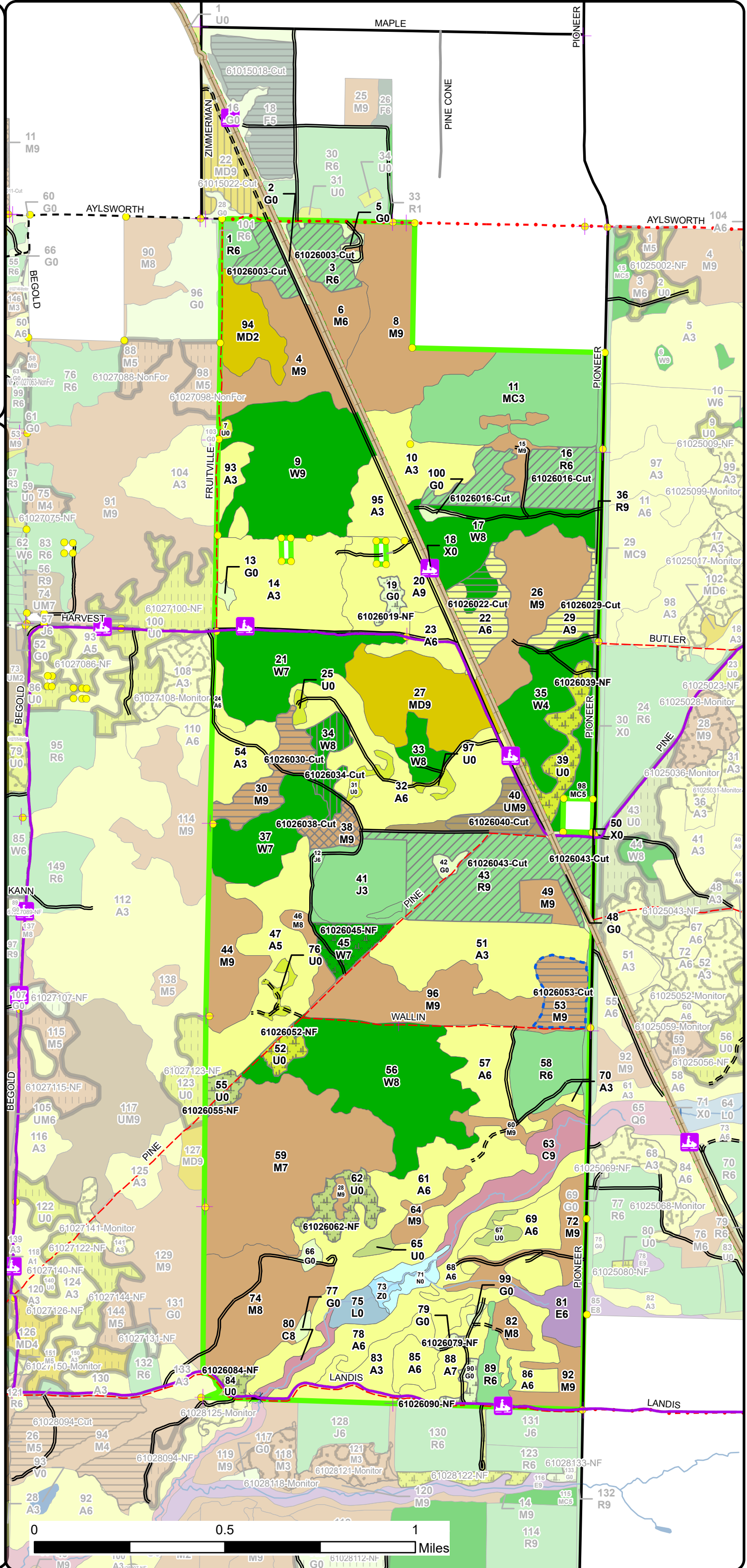
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 61026  
T25N, R14W, Sec: 4, 9, 16  
County: Benzie  
Unit: Traverse City  
Mgmt Area: Grand Traverse  
Moraine  
YOE: 2026  
Acres: 1883.4 GIS Calculated  
Examiner: Craig Allen  
Map Revised: 10/14/2024  
Map Phase: Post Review

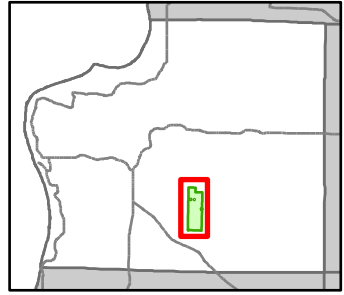


- Snowmobile Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- Bridges
- Culvert
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

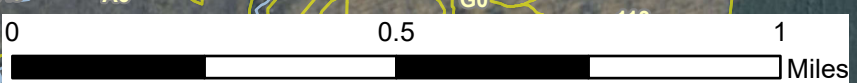
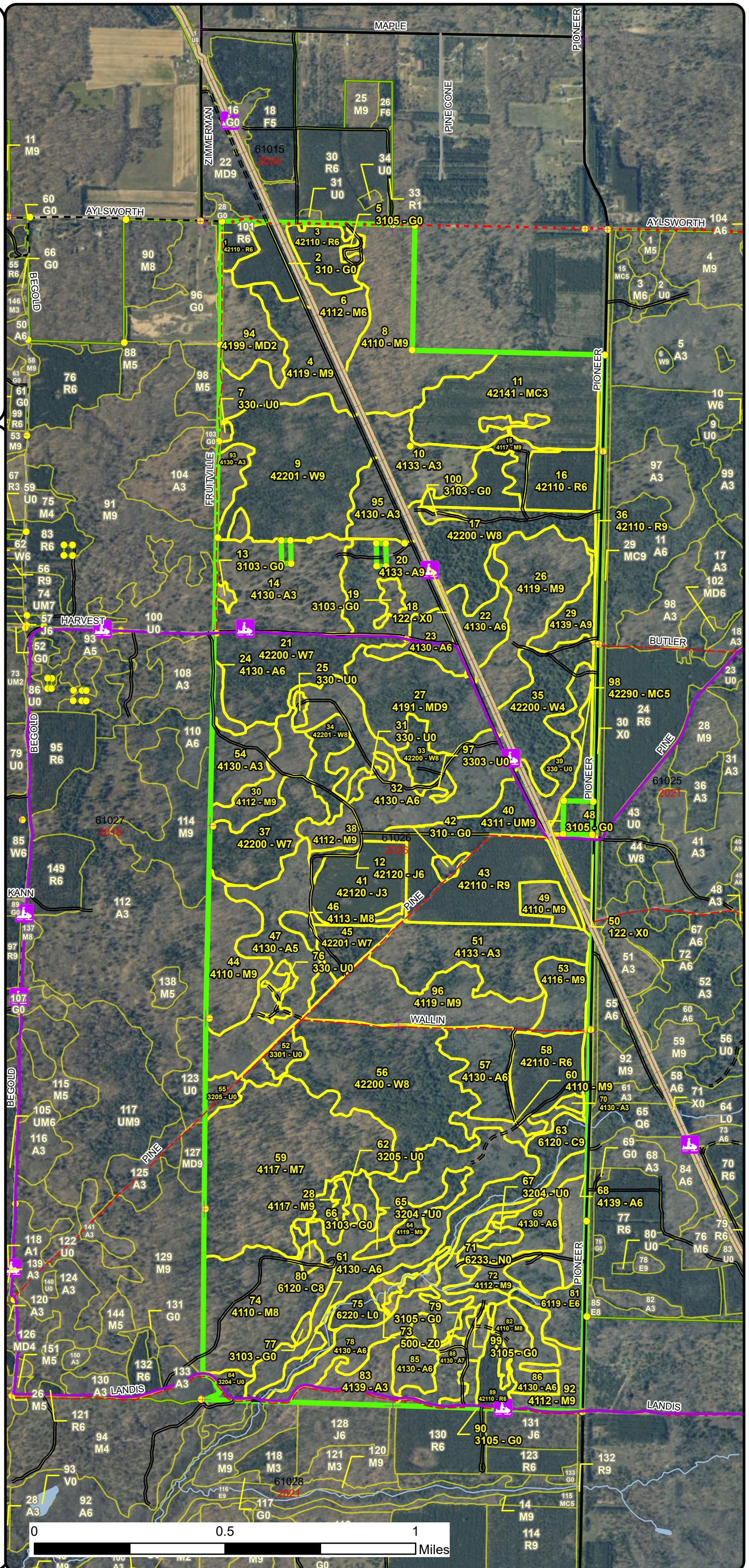


# Stand Boundary Map

Compartment: 61026  
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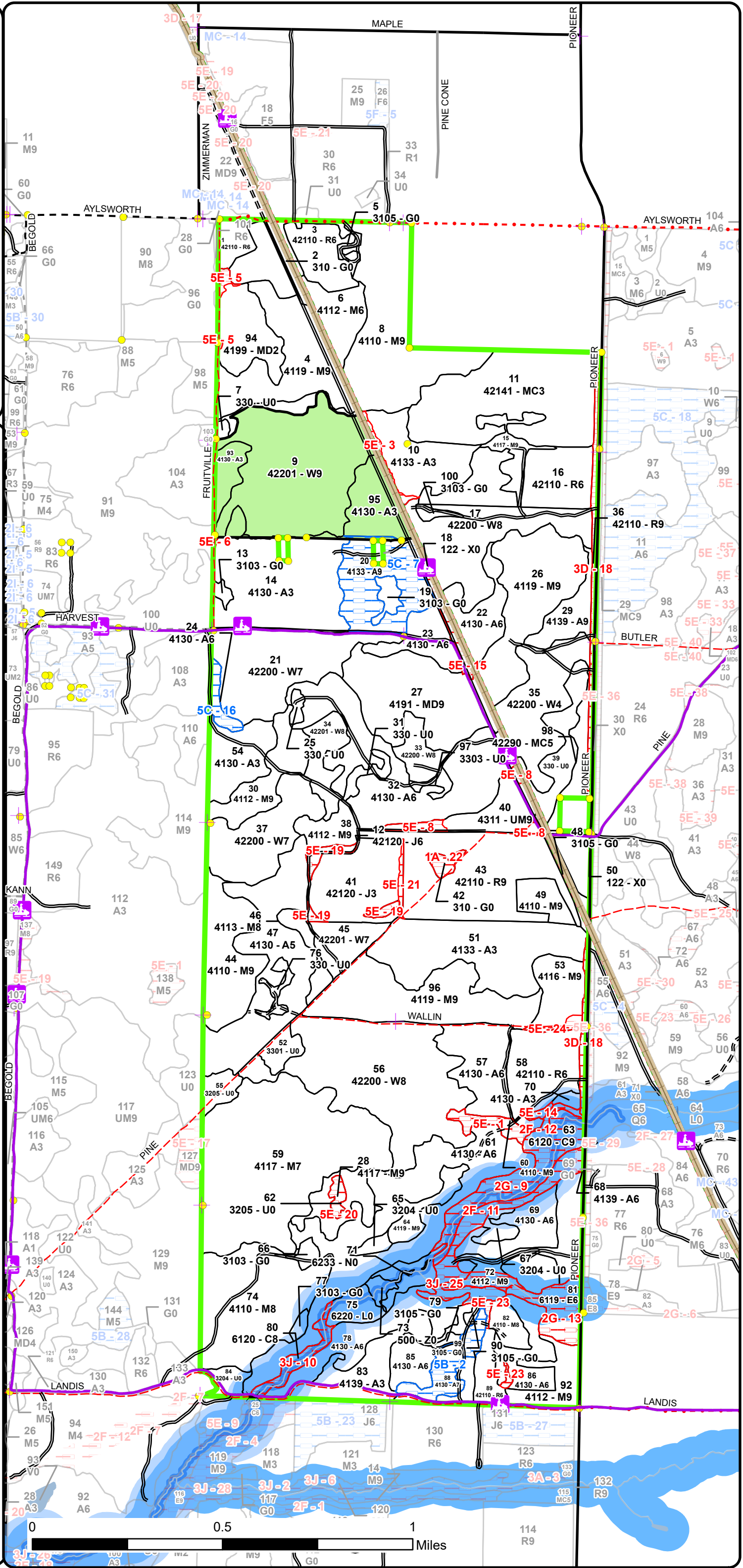
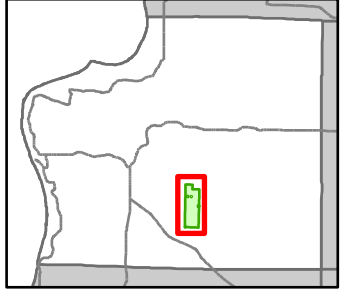


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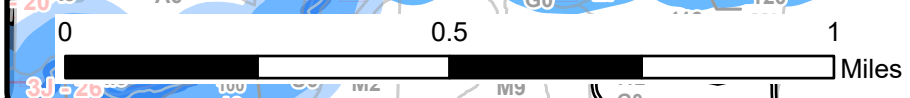


# Special Conservation Areas & Site Conditions Map

Compartment: 61026  
 T25N, R14W, Sec: 4, 9, 16  
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 Unit: Traverse City  
 Mgmt Area: Grand Traverse  
 Moraine  
 YOE: 2026  
 Acres: 1883.4 GIS Calculated  
 Examiner: Craig Allen  
 Map Revised: 10/14/2024  
 Map Phase: Post Review



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- Remonumented Section Corners
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- Bridges
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- DNR - Secondary Forest Road
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- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- 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
- 1A: Federal/State/Local Law
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Type 1 and Type 2 Old Growth
- Possible Type 2 Old Growth



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

Traverse City Mgt. Unit

Compartment 26

Year of Entry 2026

Craig Allen: Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	79	116	0	276	0	4	57	28	0	0	0	0	0	0	0	0	0	560
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	21	6	0	0	0	27
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Jack Pine	0	0	29	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	33
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	21	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	66
Natural Mixed Pines	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	15	7	59	172	178	60	0	0	0	0	0	491
Planted Mixed Pines	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Red Pine	0	0	0	0	0	0	0	95	60	10	0	0	0	0	0	0	0	0	165
Upland Mixed Forest	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Upland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	31	59	235	0	0	0	0	0	0	0	0	325
<b>Total</b>	<b>121</b>	<b>100</b>	<b>208</b>	<b>0</b>	<b>284</b>	<b>0</b>	<b>4</b>	<b>202</b>	<b>215</b>	<b>304</b>	<b>172</b>	<b>178</b>	<b>71</b>	<b>21</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1885</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 26  
Total Compartment Acres: 1,883

Commercial Harvest - 198  
Harvests with Site Condition - 14  
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	30	0	0	0	0	0	0	0	0	30
Northern Hardwood	32	8	0	0	0	0	0	0	0	41
Red Pine	0	0	0	0	0	117	0	0	0	117
Upland Mixed Forest	13	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	12	0	0	0	0	12
<b>Total</b>	<b>75</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>117</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>212</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	212	0	0	0	0	0	0	0	63	275
Next Step	0	0	0	0	0	0	94	0	0	94
<b>Total</b>	<b>212</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>94</b>	<b>0</b>	<b>63</b>	<b>369</b>



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

**Approved Treatments:**

<b>3</b>	<b>61026003-Cut</b>	25.4	42110 - Planted Red Pine	Poletimber Well	63	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></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2025</p>											
<b>16</b>	<b>61026016-Cut</b>	31.6	42110 - Planted Red Pine	Poletimber Well	63	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></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2025</p>											
<b>19</b>	<b>61026019-NF</b>	3.5	3103 - Rubus-Fern	Nonstocked		Unspecified	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.</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></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><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>22</b>	<b>61026022-Cut</b>	19.3	4130 - Aspen	Poetimber Well	62	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Cut all hardwoods and pine to open up area for mix regen and expansion of aspen component.  
Specs: Mark to leave a couple small islands to meet LT retention requirements. Mark to leave many white pine between BVT trail and harvest area for visual aesthetic purpose. Do not mark sale boundary too close to BVT trail...there are plenty of younger trees there that can be left along that edge to visually soften the harvest boundary. Could also mark some scattered log-size sugar maple and pine for seed and stand species diversity.

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

Acceptable Regen: mix of aspen, maple, pine to meet or exceed minimum stocking requirements.

Other Comment: add drumming log spec

Site Condition:

Proposed Start Date: 10/1 /2025

<b>29</b>	<b>61026029-Cut</b>	10.5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Cut all hardwoods and pine to open up area for mix regen and expansion of aspen component. Mark to leave the "legacy" pine trees and a few of the largest old maple as well. Use spec to protect non-merchantable pine during harvest. Paint harvest boundary along edge of Pioneer road so that some trees are left between particularly where no aspen is present.

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

Acceptable Regen: Mix of aspen, pine, maple, cherry that meets or exceeds minimal stocking requirements.

Other Comment: Add drumming spec.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>30</b>	<b>61026030-Cut</b>	18.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	103	111-140	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
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Prescription Clearcut all trees to regenerate mixed-hardwoods. Could mark to retain some scattered sugar maple log-sized seed trees (if find some acceptable ones). Follow retention guidelines for islands or retention of groups or individual trees along stand edges.

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

Acceptable Regen: sugar maple, red maple, aspen, cherry, white pine,

Other Comment: could add drumming log 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
<b>34 61026034-Cut</b>	11.6	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	80	51-80	Harvest	Shelterwood	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen, cherry, maple, white pine, but mark to retain 20 BA of mature wind-firm seed trees of white pine following natural pine guidance. Green mark to leave any "legacy" trees of any species.</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> white pine, sugar maple, red maple, cherry, aspen, basswood,</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>38 61026038-Cut</b>	8.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription</u> Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Leave all conifers.</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> mix of sugar maple, cherry, red maple to meet or exceed minimum stocking requirements.</p> <p><u>Other Comment:</u> Also, spec to remove any ironwood as needed to facilitate logging operations.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>39 61026039-NF</b>	15.2	330 - Low-Density Trees	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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</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.</p> <p><u>Site Condition:</u></p> <p><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>40</b>	<b>61026040-Cut</b>	12.5	4311 - Pine, Aspen Mix	Sawtimber Well	70	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Cut all hardwoods and pine to open up area for mix regen and expansion of aspen component. Could mark a few mature white pine seed-trees to leave per acre. Mark to leave the large dbh, old sugar and red maple trees that are near the road along south edge. Use spec to protect non-merchantable pine during harvest. Long-term retention identified on map in far SW corner, SE corner near roads intersection and north most tip between BVT trail and road.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mix of aspen, cherry, red maple, sugar maple, white pine to meet or exceed minimum stocking levels.

Regen:

Other Add grouse drumming log spec.

Comment: Add snowmobile trail protect spec.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>43</b>	<b>61026043-Cut</b>	60.4	42110 - Planted Red Pine	Sawtimber Well	71	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 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.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>45</b>	<b>61026045-NF</b>	11.5	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	70	1-50	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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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.

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>52</b>	<b>61026052-NF</b>	5.3	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	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.</p> <p><u>Specs:</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.</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 /2025</p>										

<b>53</b>	<b>61026053-Cut</b>	14.2	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	65	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Cut all hardwoods and pine to open up area for mix species regen and expansion of aspen component. Mark to leave many of the Large DBH sugar maple for seed trees and diversity. Also, mark to keep some of the large, super-canopy white pine (future "Legacy" trees). Use spec to protect non-merchantable pine during harvest. Long-term retention area along south end as shown on map.</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> Mix of aspen, maple, pine, cherry to meet or exceed minimum stocking levels.</p> <p><u>Other Comment:</u> Add grouse drumming log spec</p> <p><u>Site Condition:</u> Long-Term Retention</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

<b>55</b>	<b>61026055-NF</b>	5.3	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Pruning	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.</p> <p><u>Specs:</u></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 /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>62</b>	<b>61026062-NF</b>	11.8	3205 - Mixed Upland Shrub	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>79</b>	<b>61026079-NF</b>	1.2	3105 - Mixed Upland Herbaceous	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>84</b>	<b>61026084-NF</b>	4.4	3204 - Mast Producing Shrub	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
90 61026090-NF	4.7	3105 - Mixed Upland Herbaceous	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.</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></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Total Treatment** 274.7  
**Acres Proposed:**

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
 Craig Allen: Examiner

Compartment: 26  
 Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				5B	5C	1A	2F	2G	3D	3G	3J	5E	
559	492	44		22	Aspen	11	33		16	0	0	0			6
27	0	0		27	Cedar				0	21				6	
32	29	0		2	Herbaceous Openland	0		2							
34	28	0		6	Jack Pine										6
32	32	0		0	Low-Density Trees										
11	0	0		11	Lowland Deciduous				0	11					
7	7	0		0	Lowland Shrub										
7	7	0		0	Marsh				0						
66	64	0		2	Mixed Upland Deciduous										2
8	8	0		0	Natural Mixed Pines										
491	476	0		15	Northern Hardwood				1	0	0	0	4	9	
63	63	0		0	Planted Mixed Pines										
165	154	0		11	Red Pine						10			1	
16	13	0		4	Upland Mixed Forest									4	
27	27	0		0	Upland Shrub										
13	12	0		0	Urban						0	0			
3	3	0		0	Water										
324	251	0		73	White Pine							73		0	
1,883	1,666	44		173	Total Forested Acres	12	33	2	18	33	10	73	10	27	
	88%	2%		9%	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	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
This 4.6 acre area of mature trees can serve as long term retention strip between the 2 large aspen stands adjacent north and south (stands 57,61).							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 26

Year of Entry: 2026

2	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LF- left for natural conversion to sugar maple and ash...let aspen fall out naturally from stand.							
3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very Unique=Some very old (approx. 125-200yrs) and large white pine scattered throughout. There may be as many as 200 of these trees scattered in stand. One small area has a heavy concentration. Some have old fire scars. Majority seem quite healthy. May want to consider leaving stand for old growth potential							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> West half of this original stand was harvested in 2019 (now stand 14). Delay the harvest of this stand till 2034 to better stagger the ages...aspen is healthy doing fine and can easily go another 10 years. Keep some of the area between the two-track and the Betsie Valley Trail as long-term retention when doing the harvest.							



## Report 4 – Site Conditions

Traverse City Mgt. Unit

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8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long term retention for stand 40.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dair creek corridor							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dair creek corridor							
11	<b>Unavailable</b>	<b>2F: Too steep</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LF- Terrain and river setback							
12	<b>Unavailable</b>	<b>2F: Too steep</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> steep towards dair creek and for retention for adjacent aspen harvests.							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lf= wet							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long term retention for adjacent aspen harvest areas (stand 70)							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen: Examiner

Compartment: 26

Year of Entry: 2026

15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> West half of this original stand was harvested in 2019 (now stand 14). Delay the harvest of this stand till 2034 to better stagger the ages...aspen is healthy doing fine and can easily go another 10 years. Keep some of the area between the two-track and the Betsie Valley Trail as long-term retention when doing the harvest.							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Along edge of pioneer road. Maintain for visual mgt / retention purposes.							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long-term retention areas for adjacent stand 41							
20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> long term retention associated with adjacent stand 59 harvest in 2018							
21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> narrow strip of trees left between plantations used as part of Long-term retention.							
22	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
 Craig Allen: Examiner

Compartment: 26  
 Year of Entry: 2026

23	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention for stand 53.							
25	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Contains small cold water feeder creek that flows into Dair creek. Also, some steep slopes going down to creek.							



**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
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	<b>SCA</b>	95
<b>Comments</b>				
significant component of old fire scarred white pines.				



**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	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	42110 - Planted Red Pine	Poletimber Well	6.3	63	141-170	N/A	Stand was planted irregular "cinnamon role" pattern. Was row-thinned on 6/15/2007 seedlings=red and sugar maple																																																			
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2	310 - Herbaceous Openland	Nonstocked	5.1		Unspecified	No	Open area that the Betsie Valley Trail (old railroad grade) passes through middle. In 2004 Wildlife Division did the listed species inventory and the following notes: East portion is degraded, mostly spotted knapweed and sheep's sorrow. West of railroad grade is more mixed grasses/cladonia/spotted knapweed/hoary alysum. Unlisted specie is hoary alysum.																																																			
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3	42110 - Planted Red Pine	Poletimber Well	25.4	63	171-200	N/A	Second thinning (cut 3rd tree) on 6/15/2007. Was already row-thinned.																																																			
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4	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.5	83	81-110	N/A	Not much aspen, and it is quite scattered (not much in clones). Some Large, old white pine present. Some witch hazel present.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	3105 - Mixed Upland Herbaceous	Nonstocked	2.7		Unspecified	No	Stand species listed by inspection by wildlife division in 2004.  Notes from 2004 wildlife Division inpection: A large forest juneberry along edge. Bracken fern in center. A nice forest transition between red pine and maple stands. Unlisted specie is hoary alysum.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	Trace		Seeding
								Mixed Grasses	Medium		Non-Wood
								White Pine	Trace		Sapling
								Cladonia (Reindeer moss)	Medium		Non-Wood
								Spotted Knapweed	Medium		Non-Wood
								St. Johns Wort	Trace		Non-Wood
								Bracken Fern	Medium		Non-Wood
								Unlisted - See Comments	Trace		
								Serviceberry (Juneberry)	Trace		
								Black Cherry	Trace		Pole
								Blackberry/Raspberry	Trace		Tall Shrub

6	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.8	89	81-110	N/A	Also contains a few aspen and hemlock.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10	Log/Pole	12		Ironwood	Medium		Variable	Sapling
Red Maple	20	Log	12		Sugar Maple	Medium		>20 feet	Sapling
Basswood	5	Log	12		Beech	Medium		Variable	Sapling
Sugar Maple	65	Log/Pole	10	89					

7	330 - Low-Density Trees	Nonstocked	1.1		Unspecified	No	Species listed by Wildlife Division inspection in 2004. This opening has been used for logging landing in the past and likely in future.
Sub-Canopy Species	Density	Avg. Height	Size				
Bracken Fern	Full		Non-Wood				
Spotted Knapweed	Trace		Non-Wood				
Aspen (sp.)	Low		Sapling				
Black Cherry	Low		Sapling				
White Pine	Medium		Sapling				
Mixed Grasses	Medium		Non-Wood				
Serviceberry (Juneberry)	Trace						
Cladonia (Reindeer moss)	Low		Non-Wood				
St. Johns Wort	Trace		Non-Wood				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
8	4110 - Sugar Maple Association	Sawtimber Well	56.7	103	81-110	N/A	Thinned = Nov/dec. 2010. Then, in 2012...had "Maple decline" present in stand...particularly in north end so had some die back. Stand also contains Some w. pine super canopy trees and some hemlock.																																																		
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9	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	72.8	85	111-140	N/A	Age of stand is based on majority of white pine within the stand...not the super canopy XL trees.																																																		
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10	4133 - Aspen, Mixed Pine	Sapling Well	25.2	5	Immature	N/A	Harvest completed june of 2019 Very mixed species stand. Good white pine and good aspen. Most of the red pine in the stand is plantation that was taken over by hardwoods.																																																		
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11	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	62.8	13	Immature	N/A	red pine/jack pine strip plantation that was clearcut in Oct.2007. Was roller chopped in fall of 2008 for site prep Was trenched and planted to red pine in spring of 2011																																																		
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12	42120 - Planted Jack Pine	Poletimber Well	4.3	65	Unspecified	N/A	formerly a jack pine stand that was clearcut...these areas were left uncut...for diversity in the area and for wildlife use and retention.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	3103 - Rubus-Fern	Nonstocked	1.5		Unspecified	No	Bracken fern covered. Some shrub species present. Was used for logging landing site				
								Sub-Canopy Species	Density	Avg. Height	Size
								Autumn Olive	Trace		Tall Shrub
								St. Johns Wort	Trace		Non-Wood
								Poverty Grass	Trace		Non-Wood
								Bracken Fern	Full		Non-Wood
								Black Cherry	Low		Pole
								Witch Hazel	Trace		Tall Shrub
								Mixed Grasses	Medium		Non-Wood
								Cladonia (Reindeer moss)	Trace		Non-Wood
Choke Cherry	Trace										

14	4130 - Aspen	Sapling Well	50.8	5	Immature	N/A	Harvested in may of 2019. In addition to the white pine, the stand also, contains scattered mature leave/retention trees of various size and species. Lots of apple trees were planted on this 80 in what appears as a failed attempt at an orchard, most likely planted pre-depression era.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	10	Sapling	1	
								Quaking Aspen	40	Sapling	1	5
								Red Maple	10	Sapling	1	
								Bigtooth Aspen	25	Sapling	1	5
								White Pine	15	Log/Pole	10	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Witch Hazel	Low	>20 feet	Tall Shrub	
								White Pine	Medium	>20 feet	Sapling	

15	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	9.1	88	51-80	N/A	Red pine areas within this stand are plantation pine that is over taken by hardwoods.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	25	Log	16	
								Red Maple	30	XLog/Log/Pole	18	88
								Quaking Aspen	5	Pole	8	
								Black Cherry	5	Log	16	
								White Pine	5	Log/Pole	10	
								Red Pine	30	Pole/Log	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	Variable	Pole	
Red Maple	Low	Variable	Sapling									
Ironwood	High	Variable	Sapling									

16	42110 - Planted Red Pine	Poletimber Well	31.6	63	171-200	N/A					
							Canopy Species	% Cover	Size Class	DBH	Age
							Red Pine	100	Log/Pole	10	63
							Sub-Canopy Species	Density	Avg. Height	Size	
Beech	Low	5 - 10 feet	Sapling								
White Pine	Low	5 - 10 feet	Sapling								

17	42200 - Natural White Pine	Sawtimber Medium	38.4	75	1-50	N/A	Many older open-grown white pine multi-stem (with weevil damage) with other sizes seeded in over time out into this (likely old ag) field area. Some of the re-gen is being protected from weevil damage by the larger over-story trees.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	75	Log/Pole	14	75
								Jack Pine	5	Pole/Sapling	7	
								Black Cherry	20	Log/Pole	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
Witch Hazel	Low	10 - 20 feet	Tall Shrub									
White Pine	Medium	Variable	Sapling									
Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	122 - Road/Parking Lot	Nonstocked	5.2		Unspecified		This is the Betsie Valley Trail (which was a former railroad grade)

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
19	3103 - Rubus-Fern	Nonstocked	3.5		Unspecified	No	Species and comments per Wildlife Division inspection in 2004 : White pine in clumps to the south. Some aspen regeneration (very light) along perimeter. A few black cherries are dead. Two apple trees to the north. Single elm tree. Unlisted specie is apple.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
20	4133 - Aspen, Mixed Pine	Sawtimber Well	32.1	60	Unspecified	N/A	Lots of apple trees were planted here in what appears as a failed attempt at an orchard, most likely planted pre-depression era.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>30</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>Witch Hazel</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>20</td> <td>Log/Pole</td> <td>11</td> <td>60</td> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Log/Pole</td> <td>11</td> <td>60</td> <td>White Pine</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log</td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	30	Log/Pole	12		Witch Hazel	Low	10 - 20 feet	Tall Shrub	Bigtooth Aspen	20	Log/Pole	11	60	Red Maple	Medium	Variable	Sapling	Quaking Aspen	30	Log/Pole	11	60	White Pine	High	Variable	Sapling	Black Cherry	10	Log/Pole	12		Black Cherry	Medium	Variable	Sapling	Red Maple	10	Log	12					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
White Pine	30	Log/Pole	12		Witch Hazel	Low	10 - 20 feet	Tall Shrub																																																					
Bigtooth Aspen	20	Log/Pole	11	60	Red Maple	Medium	Variable	Sapling																																																					
Quaking Aspen	30	Log/Pole	11	60	White Pine	High	Variable	Sapling																																																					
Black Cherry	10	Log/Pole	12		Black Cherry	Medium	Variable	Sapling																																																					
Red Maple	10	Log	12																																																										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
21	42200 - Natural White Pine	Sawtimber Poor	43.7	85	51-80	N/A	Stand was harvested of all aspen and red maple in fall of 2007. Majority of pine was left on site. Managing for aspen and white pine mix stand.																																				
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																			
Black Cherry	10	Log/Pole/Sap	11		White Pine	High	Variable	Sapling																																			
White Pine	90	Log/Pole/Sap	11	85	Bigtooth Aspen	High	Variable	Sapling																																			
					Red Maple	Low	Variable	Sapling																																			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
22	4130 - Aspen	Poletimber Well	14.7	62	Unspecified	N/A																																														
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
White Pine	15	Pole/Log	10		White Pine	Medium	5 - 10 feet	Sapling																																												
Bigtooth Aspen	60	Log/Pole	10	62	Sugar Maple	High	5 - 10 feet	Sapling																																												
Red Maple	15	Log/Pole	12																																																	
Sugar Maple	10	Log	12																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>23</b>	4130 - Aspen	Poletimber Well	12.4	36	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole	6	36	Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	60	Pole	6	36	Black Cherry	Medium	5 - 10 feet	Sapling
Black Cherry	10	Pole	6	36	White Pine	Low	Variable	Sapling

<b>24</b>	4130 - Aspen	Poletimber Well	3.9	50	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	85	Pole/Log	8	50	Sugar Maple	Medium	>20 feet	Sapling
White Pine	10	Log/Pole	11		Ironwood	Low	>20 feet	Sapling
Red Maple	5	Pole	6		Red Maple	Medium	>20 feet	Sapling

<b>25</b>	330 - Low-Density Trees	Nonstocked	1.7		Unspecified	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Cladonia (Reindeer moss)	Low		Non-Wood
Choke Cherry	Low		
White Pine	Low		Sapling
Black Cherry	Low		Sapling
Sheep Sorrel	Trace		Non-Wood
St. Johns Wort	Trace		Non-Wood
Bracken Fern	Full		Non-Wood
Mixed Grasses	Low		Non-Wood

<b>26</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	42.2	93	81-110	N/A	Nice mix species stand. Thinned in fall of 2010...thinning only seemed to stimulate ironwood and beech regen. any new sugar maple sap getting browsed.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Log/Pole	12		Ironwood	High	Variable	Sapling
Red Maple	35	Log/Pole	14	93	Sugar Maple	Low	>20 feet	Pole
Beech	5	Log	16		Beech	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole/Log	9		Hemlock	High	Variable	Pole
White Pine	15	XLog/Log/Pole	22					
Black Cherry	10	Log/Pole	12					

<b>27</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	44.7	77	51-80	N/A	Handful of elm trees in stand. Many very large DBH ironwood.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	3	Pole	6		Ironwood	Medium	10 - 20 feet	Sapling
Black Cherry	15	Log/Pole	10		Witch Hazel	Low	10 - 20 feet	Tall Shrub
Sugar Maple	5	Log/Pole	10		Sugar Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	2	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	40	Log/Pole	12	77	White Pine	High	>20 feet	Sapling
Red Maple	35	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>28</b>	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	2.1	98	81-110	N/A	Medium to low quality hardwoods intermixed with good white pine. Most likely a low site index for the hardwoods.  Also contains some beech.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	30	Log/Pole	12	98	Sugar Maple	High	>20 feet	Sapling
Red Maple	25	XLog/Log/Pole	18	98	White Pine	Medium	>20 feet	Sapling
Quaking Aspen	15	Log	12		Ironwood	High	>20 feet	Sapling
White Pine	25	Log/Pole	10					
Black Cherry	5	Pole	8					

<b>29</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	10.5	62	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole/XLog	10		White Pine	Medium	>20 feet	Pole
Red Maple	40	Log/Pole	12		White Pine	High	5 - 10 feet	Sapling
Bigtooth Aspen	40	Log/Pole	12	62	Beech	Low	5 - 10 feet	Sapling
White Pine	15	Log/Pole/XLog	10		Ironwood	Medium	10 - 20 feet	Sapling

<b>30</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.1	103	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	70	Log/Pole	11	103	Red Maple	Medium	>20 feet	Sapling
Black Cherry	5	Log/Pole	11		White Pine	Low	>20 feet	Sapling
Bigtooth Aspen	15	Log/Pole	11		Ironwood	Low	>20 feet	Pole
Sugar Maple	5	Pole/Log	8		Sugar Maple	Medium	>20 feet	Sapling
White Pine	5	Log	12		Sugar Maple	Medium	>20 feet	Pole

<b>31</b>	330 - Low-Density Trees	Nonstocked	3.3		Unspecified	No	Species and comments by wildlife division review in 2004 : Some large white pine along south perimeter. Aspen regenerating in spots. A few areas with clumps of choke cherry/shrubby sapling black cherries. Two young (15ft) hemlock in one spot.
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Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Trace		Pole
Strawberry	Trace		Non-Wood
Rock Elm	Trace		Pole
Aspen (spp.)	Medium		Sapling
St. Johns Wort	Trace		Non-Wood
Black Cherry	Medium		Sapling
Choke Cherry	Low		
Bracken Fern	High		Non-Wood
Mixed Grasses	Medium		Non-Wood
White Pine	Trace		Sapling
Unlisted - See Comments	Medium		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
32	4130 - Aspen	Poletimber Well	58.5	36	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>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		60	Pole	7	36	Black Cherry	High	Variable	Sapling
Black Cherry		10	Pole	7	36	White Pine	Medium	Variable	Sapling
Quaking Aspen		30	Pole	7	36				
33	42200 - Natural White Pine	Sawtimber Medium	8.8	70	1-50	N/A	Most mature pine are weevil damaged open-grown trees. Stand gaps are slowly filling-in with white pine regeneration.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole/Log	8		White Pine	High	Variable	Sapling
White Pine		80	Log/Pole/XLog	14	70				
Black Cherry		15	Pole/Log	8					
34	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	11.6	80	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		70	Log/Pole	12	80	White Pine	Medium	10 - 20 feet	Sapling
Black Cherry		20	Log	14		Black Cherry	Low	10 - 20 feet	Sapling
Quaking Aspen		10	Pole	6		Ironwood	Low	10 - 20 feet	Sapling
35	42200 - Natural White Pine	Poletimber Poor	31.1	60	1-50	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		80	Log/Pole	10	60	Black Cherry	Medium	5 - 10 feet	Sapling
Black Cherry		20	Log/Pole	11		White Pine	Medium	5 - 10 feet	Sapling
36	42110 - Planted Red Pine	Sawtimber Well	9.9	82	171-200	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		10	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
Red Pine		80	Log/Pole	12	82				
White Pine		10	Pole	8					
37	42200 - Natural White Pine	Sawtimber Poor	29.7	80	51-80	N/A	Timber sale cut in fall of 2007 2024...sap sub-canopy now 2 inch DBH.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		5	Pole	6		Sugar Maple	Low	>20 feet	Sapling
White Pine		95	Log/Pole	10	80	Red Maple	Medium	>20 feet	Sapling
						Bigtooth Aspen	High	>20 feet	Sapling
						Beech	Low	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**38** 4112 - Maple, Beech, Cherry Association Sawtimber Well 8.2 93 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log	12		Sugar Maple	Low	>20 feet	Sapling
Bigtooth Aspen	10	Log	12		Beech	Medium	Variable	Sapling
Red Maple	70	Log/Pole	12	93	Ironwood	Medium	>20 feet	Sapling
Ironwood	5	Pole	6					

**39** 330 - Low-Density Trees Nonstocked 15.2 Unspecified No Species listed are from 2004 Wildlife Division inventory.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium		Pole
Hawthorn (spp.)	Trace		Tall Shrub
Serviceberry (Juneberry)	Trace		
Spotted Knapweed	Trace		Non-Wood
Unlisted - See Comments	Trace		
Juniper	Trace		Tall Shrub
Choke Cherry	Trace		
Red Maple	Trace		Log
Black Cherry	Low		Sapling
Jack Pine	Low		Pole
Bracken Fern	Full		Non-Wood
Honeysuckle (spp.)	Trace		Tall Shrub
Autumn Olive	Medium		Tall Shrub
Poverty Grass	Trace		Non-Wood
Cladonia (Reindeer moss)	High		Non-Wood
St. Johns Wort	Trace		Non-Wood

**40** 4311 - Pine, Aspen Mix Sawtimber Well 16.1 70 51-80 N/A

Also contains a handful of large DBH sugar and red maple near edges of roads...retain these trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	25	Log/Pole	12		Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	30	Log/Pole	10		Black Cherry	Medium	5 - 10 feet	Sapling
White Pine	45	Log/Pole	10	70	White Pine	Medium	Variable	Sapling

**41** 42120 - Planted Jack Pine Sapling Well 29.3 13 Immature N/A

Formerly a jack pine stand that was clearcut in december of 2008 to convert to red pine. Site had heavy load of slash too thick to be planted, so it was burned to prepare area to be trenched and planted to red pine seedlings. (Note: Burn was very hot and consumed all slash completely). 4/28/2011 area planted to red pine (2-0) Jack pine is all volunteer regen.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	70	Sapling	2	13
Red Pine	25	Sapling	2	13
Black Cherry	5	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**42**      310 - Herbaceous Openland      Nonstocked      2.3           Unspecified      No

Sub-Canopy Species	Density	Avg. Height	Size
Rose	Low		Tall Shrub
Spotted Knapweed	Low		Non-Wood
St. Johns Wort	Low		Non-Wood
White Pine	Low		Log
Mixed Grasses	Full		Non-Wood
Sheep Sorrel	Trace		Non-Wood
Common Lilac	Trace		Tall Shrub
Black Cherry	Low		Pole
Unlisted - See Comments	Trace		

**43**      42110 - Planted Red Pine      Sawtimber Well      60.4      71      171-200      N/A

Thinned every 3rd tree oct-nov 2007.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/Pole	11	71

**44**      4110 - Sugar Maple Association      Sawtimber Well      29.0      113      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Log	18		Beech	Low	Variable	Sapling
Black Cherry	5	Log/Pole	12		Ironwood	High	Variable	Sapling
Basswood	25	XLog/Log/Pole	18	113	Sugar Maple	Medium	Variable	Sapling
Sugar Maple	65	Log/Pole	16	113	White Ash	Medium	Variable	Sapling

**45**      42201 - Natural White Pine, Mixed Deciduous      Sawtimber Poor      11.5      70      1-50      N/A

"Islands" of mature pine and cherry with advanced regen of white pine around edges...slowly filling-in openings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole	7		Jack Pine	Low	Variable	Sapling
Black Cherry	30	Pole/Log	9		White Pine	Medium	Variable	Sapling
White Pine	60	XLog/Log/Pole	18	70				

**46**      4113 - R.Maple, Conifer      Sawtimber Medium      6.0      90      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log/Pole	10		Beech	Low	Variable	Sapling
White Pine	20	Pole/Log	8		Red Maple	Low	Variable	Sapling
Black Cherry	10	Log/Pole	10		White Pine	Medium	Variable	Sapling
Sugar Maple	5	Log/Pole	12		Ironwood	Medium	Variable	Sapling
Red Maple	60	Log/Pole	12	90				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>47</b>	4130 - Aspen	Poletimber Medium	48.9	36	Unspecified	N/A	Also contains some scattered large DBH white pine. Stand has many small natural openings.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Cherry		5	Pole	6		Black Cherry	
White Pine		5	Pole	6		White Pine	
Bigtooth Aspen		55	Pole	6	36	Sugar Maple	
Quaking Aspen		35	Pole	5	36		
						<b>Density</b>	<b>Avg. Height</b>
						High	Variable
						Low	Variable
						Low	Variable
							<b>Size</b>
							Sapling
							Sapling
							Sapling

<b>48</b>	3105 - Mixed Upland Herbaceous	Nonstocked	4.2		Unspecified	No	This is the semi-open areas adjacent to the Betsie Valley recreation trail (an old railroad grade) Species listed here is from 2004 wildlife division inventory.
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Conifers		Low		Seeding			
St. Johns Wort		Low		Non-Wood			
Black Cherry		Low		Sapling			
Unlisted - See Comments		Low					
Bracken Fern		High		Non-Wood			
Mixed Grasses		Low		Non-Wood			
Poverty Grass		Trace		Non-Wood			
Cladonia (Reindeer moss)		Trace		Non-Wood			
Spotted Knapweed		Low		Non-Wood			

<b>49</b>	4110 - Sugar Maple Association	Sawtimber Well	8.0	105	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Beech		5	Log	18		Sugar Maple	
White Pine		5	Log	20		Ironwood	
Red Maple		5	Log/Pole	11			
Black Cherry		5	Log/Pole	11			
Sugar Maple		80	Log/Pole	11	105		
						<b>Density</b>	<b>Avg. Height</b>
						Medium	>20 feet
						High	10 - 20 feet
							<b>Size</b>
							Sapling
							Sapling

<b>50</b>	122 - Road/Parking Lot	Nonstocked	7.3		Unspecified		This is Pioneer road corridor.
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<b>51</b>	4133 - Aspen, Mixed Pine	Sapling Well	49.6	16	1-50	N/A	Harvested in Dec. 2007
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		45	Sapling	2	16	Hemlock	
White Pine		25	Pole	8	60		
White Pine		10	XLog	25			
Red Maple		20	Sapling	2	16		
						<b>Density</b>	<b>Avg. Height</b>
						Low	>20 feet
							<b>Size</b>
							Pole

Also has some scattered large DBH beech.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>52</b>	3301 - Low Density Deciduous Trees	Nonstocked	5.3		Unspecified	No	Species listed here are from a 2004 wildlife division inventory.																																																								
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<b>53</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	15.2	65	81-110	N/A	Also contains a few cherry.																																													
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<b>54</b>	4130 - Aspen	Sapling Well	18.0	17	Unspecified	N/A	Stand was harvest of all aspen and red maple in fall of 2007. Majority of large old white pine was left on site.																																													
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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>55</b>	3205 - Mixed Upland Shrub	Nonstocked	5.3		Unspecified	No	Species listed here are from 2004 Wildlife Division Inventory.																																																															
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<b>56</b>	42200 - Natural White Pine	Sawtimber Medium	76.8	80	51-80	N/A																														
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Red Maple	Medium	10 - 20 feet	Sapling																																	

<b>57</b>	4130 - Aspen	Poletimber Well	22.0	34	Unspecified	N/A	Scattered (mostly log-sized) white pine trees left when this was cut. Also, contains some scattered natural openings.																																				
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<b>58</b>	42110 - Planted Red Pine	Poletimber Well	23.5	63	141-170	N/A	Third row thinning completed on 12/17/2007. Thinned by selection in October 2018.																						
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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>59</b>	4117 - Mixed N. Hardwood - Pine	Sawtimber Poor	98.7	98	51-80	N/A	Harvested in June of 2018. Many sugar maple and pine left, also pockets of advanced sugar maple where left undisturbed as much as possible during logging activities. 2023 inspection = harvest seemed to mostly stimulate the growth of ironwood and beech. Any sugar maple regen getting heavily browsed.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Log/Pole	12	98	Sugar Maple	Low	Variable	Sapling
White Pine	40	Log/Pole	10		Beech	Medium	Variable	Sapling
Red Maple	5	XLog/Log	18	98	White Pine	Medium	>20 feet	Sapling
Black Cherry	5	Pole	8		Ironwood	High	Variable	Sapling
					Bigtooth Aspen	Medium	< 5 feet	Sapling

<b>60</b>	4110 - Sugar Maple Association	Sawtimber Well	7.0	70	81-110	N/A	Stand also contains a few hemlock and mature white pine. Scattered w. pine saps in understory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Log/Pole	12	70	Sugar Maple	Low	>20 feet	Sapling
Black Cherry	10	Log/Pole	12		Ironwood	Medium	>20 feet	Sapling
Sugar Maple	65	Log/Pole	12	70				
Basswood	20	Log/Pole	12					

<b>61</b>	4130 - Aspen	Poletimber Well	66.8	34	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Pole	6	34	White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	50	Pole	6	34	Black Cherry	High	5 - 10 feet	Sapling

<b>62</b>	3205 - Mixed Upland Shrub	Nonstocked	11.8		Unspecified	No	Note: Species/inventory data is from 2004 wildlife division review.
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Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low		Tall Shrub
Black Cherry	Low		Sapling
Blackberry/Raspberry	Medium		Tall Shrub
Rock Elm	Trace		Pole
Autumn Olive	Low		Tall Shrub
Unlisted - See Comments	Medium		
Cladonia (Reindeer moss)	Low		Non-Wood
Serviceberry (Juneberry)	Low		
Mixed Grasses	Medium		Non-Wood

<b>63</b>	6120 - Lowland Cedar	Sawtimber Well	21.4	125	Unspecified	N/A	Contains Dair Creek.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	12		White Pine	Low	Variable	Sapling
Northern White Cedar	65	Log/Pole	12	125	Hemlock	Low	< 5 feet	Sapling
Hemlock	20	Pole/Log	10		Northern White Cedar	Low	>20 feet	Pole
Yellow Birch	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**64** 4119 - Mixed Northern Hardwoods Sawtimber Well 8.1 93 51-80 N/A Mixed species stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log/Pole	12		Ironwood	Low	5 - 10 feet	Sapling
Basswood	25	Log/Pole	12	93	White Pine	Low	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	10		Black Cherry	High	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	8		Witch Hazel	High	10 - 20 feet	Tall Shrub
White Pine	15	XLog/Log/Pole	18					
Black Cherry	25	Log/Pole	12					

**65** 3204 - Mast Producing Shrub Nonstocked 2.2 Unspecified No Note: species/data from 2004 wildlife division field review.

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	High		Tall Shrub
Black Cherry	Medium		Sapling
White Pine	Trace		Log
Deciduous Saplings	Low		Pole
Bracken Fern	Low		Non-Wood
Mixed Grasses	Low		Non-Wood
Sheep Sorrel	Trace		Non-Wood
Witch Hazel	High		Tall Shrub
St. Johns Wort	Trace		Non-Wood

**66** 3103 - Rubus-Fern Nonstocked 2.3 Unspecified No Used frequently for a logging landing and turn-around area for all the adjacent stands.

**67** 3204 - Mast Producing Shrub Nonstocked 3.6 Unspecified No Note: species/inventory and the following comments done by wildlife division in 2004.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	High		Sapling
White Pine	Low		Log
Deciduous Saplings	Low		Sapling
Unlisted - See Comments	Low		
Mixed Grasses	Low		Non-Wood
St. Johns Wort	Low		Non-Wood
Strawberry	Trace		Non-Wood
Bracken Fern	Low		Non-Wood
Blackberry/Raspberry	High		Tall Shrub

A few nice snags. Some nice, straight white pine. Mostly black cherry shrubland with upland deciduous mixed in. Ground cover is dominated by raspberry/blackberry with clumps of goldenrod. Fair amount of mullein found here. Unlisted specie is hawkweed.

**68** 4139 - Aspen, Mixed Deciduous Poletimber Well 16.1 70 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	12		Red Maple	Medium	>20 feet	Sapling
White Pine	5	XLog	20		White Pine	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	55	Log/Pole	12	70	Ironwood	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
69	4130 - Aspen	Poletimber Well	22.6	34	Unspecified	N/A	Also some scattered white pine pole/sawlog trees were left when this stand was cut. Forbs= raspberry, Brachen, trout lilly.																																														
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70	4130 - Aspen	Sapling Well	2.8	6	Immature	N/A	These are 2 small harvest areas cut in fall of 2018...mainly for aspen regen.																																														
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Bigtooth Aspen	80	Sapling	1	6																																																	
71	6233 - Wet Meadow	Nonstocked	6.6		Unspecified	No	Seasonally wet from beaver dam activity on Dair creek. Mostly sedges with a few alders along perimeter. Dead wood and snags.																																														
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72	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.1	113	81-110	N/A	Also has: scattered witch hazel, white pine saps, ash sweet cicely, trout lilly, violet.																																														
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73	500 - Water	Nonstocked	2.7		Unspecified	No	Dair Creek Beaver lodge... Beaver activity. This is an old beaver pond with lots of dead wood. Perimeter is covered in sedges. Some cattails, tag alders, and bulrushes.																																														
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74	4110 - Sugar Maple Association	Sawtimber Medium	51.1	100	51-80	N/A	lots of multi-stem canopy trees. scattered openings																																														
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75	6220 - Alder/willow	Nonstocked	6.7		Unspecified	No	Dair Creek corridor....Beavers made a second-tier dam. From east edge, looks mostly tag alders. Unlisted specie is fern.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Tag Alder	High		Tall Shrub
								Cattail spp.	Trace		Non-Wood
								Viburnum	Trace		Tall Shrub
								Northern White Cedar	Trace		Pole
								Unlisted - See Comments	Full		
Quaking Aspen	Trace	Unspecified	Sapling								

76	330 - Low-Density Trees	Nonstocked	3.0	0	Unspecified	No	
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77	3103 - Rubus-Fern	Nonstocked	1.5		Unspecified	No	species/inventory from 2004 wildlife division inventory. Most rubus specie with hawkweed and st. john's wort.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Poverty Grass	Low		Non-Wood
								Bigtooth Aspen	Trace	Unspecified	Sapling
								Mixed Grasses	Low		Non-Wood
								Strawberry	Low		Non-Wood
								St. Johns Wort	Medium		Non-Wood
								Blackberry/Raspberry	High		Tall Shrub
								Bracken Fern	Low		Non-Wood
								Unlisted - See Comments	Medium		
								Autumn Olive	Trace		Tall Shrub
								Black Cherry	Low		Pole

78	4130 - Aspen	Poletimber Well	22.2	34	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Pole/Sapling	7	34	Quaking Aspen	Full	10 - 20 feet	Sapling
Black Cherry	5	Pole/Sapling	5	34	Black Cherry	Medium	10 - 20 feet	Sapling
Quaking Aspen	45	Pole/Sapling	5	34				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>79</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.2		Unspecified	No	This opening used as logging landing for surrounding timber stands.																																																								
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<b>80</b>	6120 - Lowland Cedar	Sawtimber Medium	5.9	130	81-110	N/A	Dair Creek corridor.																																													
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<b>81</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	11.3	113	Unspecified	N/A	A tributary headwaters of Dair Creek. Swampy and wet. Marsh Marigold present.																																																																								
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<b>82</b>	4110 - Sugar Maple Association	Sawtimber Medium	6.0	98	51-80	N/A	park-like, with natural openings Saplings moving into the open spaces. Manage for sugar maple.																																																						
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<b>83</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	22.5	17	Unspecified	N/A	Stand was cut in June, 2007. Red maple, aspen, cherry was cut (except those trees marked with green paint). There was existing sugar maple saps in understory prior to harvest especially in SW portion of stand...It is doing very good. Lots more maple and ash in understory in the south end. Medium quality aspen.																																				
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<b>84</b>	3204 - Mast Producing Shrub	Nonstocked	4.4		Unspecified	No	Species/inventory mostly from 2004 wildlife division inventory. Black cherry with mixed fruiting shrubs underneath. Ground cover is mostly rubus, cladonia, mixed grasses & forbs. Also has some various mature hardwood trees scattered spots.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89	42110 - Planted Red Pine	Poletimber Well	8.4	66	141-170	N/A	Thinning completed on 11/30/2007
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	85	Log/Pole	10	66	Sugar Maple	Medium	Variable	Sapling
White Pine	15	Pole/Log	8	66	Beech	Medium	Variable	Sapling
					White Ash	Medium	Variable	Sapling
					Witch Hazel	Low	>20 feet	Tall Shrub

90	3105 - Mixed Upland Herbaceous	Nonstocked	4.7		Unspecified	No	Species /inventory was done by wildlife division in 2004. Has been used for logging landing and equipment operations in the past. Seasonal county road and snowmobile trail runs through.
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Sub-Canopy Species	Density	Avg. Height	Size
Unlisted - See Comments	Trace		
Sheep Sorrel	Trace		Non-Wood
Mixed Grasses	Medium		Non-Wood
St. Johns Wort	Low		Non-Wood
Shrubby Cinquefoil	Trace		Tall Shrub
Juniper	Trace		Tall Shrub
Spotted Knapweed	Medium		Non-Wood
Poverty Grass	Trace		Non-Wood
Honeysuckle (spp.)	Low		Tall Shrub
Rock Elm	Trace		Pole
Bracken Fern	Low		Non-Wood
Black Cherry	Low		Sapling
Cladonia (Reindeer moss)	Low		Non-Wood
Choke Cherry	Trace		
Witch Hazel	Low		Tall Shrub

92	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.4	112	81-110	N/A	Stand was thinned spring of 2009...result was real nice sugar maple regen that is over 6 feet in height so getting out of deer browse range.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	14	112	Beech	Low	Variable	Sapling
Red Maple	20	Log	14		Ironwood	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	5	Log/Pole	12		Sugar Maple	Full	Variable	Sapling
Black Cherry	5	Log	10					

93	4130 - Aspen	Sapling Well	9.2	17	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	3	17	Witch Hazel	Low	10 - 20 feet	Tall Shrub
Black Cherry	5	Sapling	3	17				
Sugar Maple	2	Log/Pole	12					
White Pine	3	Log/Pole/XLog	14					
Bigtooth Aspen	75	Sapling	3	17				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**94** 4199 - Other Mixed Upland Deciduous Sapling Medium 20.8 5 Immature N/A Harvested in June 2019...natural Regen just now getting started. Some witch hazel present.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	35	Sapling	1	5
Black Cherry	10	Sapling	1	
Red Maple	15	Sapling	1	
Beech	20	Sapling	1	
Sugar Maple	10	Log/Pole	12	
White Pine	10	Log/Pole	12	

**95** 4130 - Aspen Sapling Well 15.8 17 Unspecified N/A Was harvested in summer of 2007 to regenerate and expand aspen. Some white pine left for diversity and seed source for mix stand.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Sapling	3	17
White Pine	10	Log/Pole/XLog	12	85
Bigtooth Aspen	72	Sapling	3	17
Red Maple	13	Sapling	3	17

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	10 - 20 feet	Tall Shrub
White Pine	Low	10 - 20 feet	Sapling

**96** 4119 - Mixed Northern Hardwoods Sawtimber Well 44.6 100 81-110 N/A In general, lots of multi-stem trees. Also has some scattered large DBH beech. and some very large and old white pine scattered locations.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	55	Log/Pole	12	100
Basswood	15	Log/Pole	14	
Bigtooth Aspen	5	Log/Pole	12	
White Pine	10	XLog/Log/Pole	20	
Beech	5	Log/Pole	14	
Sugar Maple	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	Pole
Beech	Low	< 5 feet	Sapling
Sugar Maple	Medium	>20 feet	Sapling
Red Maple	Medium	>20 feet	Sapling
Ironwood	High	10 - 20 feet	Sapling

**97** 3303 - Mixed Low Density Trees Nonstocked 2.3 Unspecified No Inventory/species from 2004 wildlife division inventory. Spots of cladonia/poverty grass. Some choke cherry, and large forest juneberry, and a snag along south border. Aspen/cherry clumps in SE part.

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Trace		Non-Wood
St. Johns Wort	Trace		Non-Wood
White Pine	Medium		Log
Red Maple	Low		Log
Cladonia (Reindeer moss)	Medium		Non-Wood
Black Cherry	Low		Pole
Choke Cherry	Trace		
Poverty Grass	Medium		Non-Wood
Mixed Grasses	Low		Non-Wood
Bracken Fern	High		Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>98</b>	42290 - Natural Mixed Pine	Poletimber Medium	7.7	30	Immature	N/A	A natural mix species pine stand that has been seeding-in over time out into an old opening along edge of larger mature red pine strips by the road.																																																				
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