



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61044

Entry Year 2023

Acreage: 3,704

County Grand Traverse

Management Area: Boardman Plains

**Revision Date:** 2021-05-18

**Stand Examiner:** Pat Ruppen

**Legal Description:**

T27N, R9W Sections 21, 22, 27, 28, 33, 34

**Identified Planning Goals:**

The Boardman River, a natural and scenic river runs through the southeast corner of the compartment. This compartment is within parts of three Land Type Associations (LTA's). The north east corner is within LTA 1111 which is described as steep broken moraine ridges with deep excessively drained sands. The majority of the compartment falls within two LTA's (5211 and 5111); which are very similar. They are described as outwash plains with level to gently rolling topography and ice block depressions. These deep excessively drained sites had occasional to frequent wildfires depending on the position in the landscape. Conifer mixes were commonly found in early forest surveys especially red pine mixed with jack pine, white pine, and less commonly oak. Aspen was a small component historically in these LTA's. Oak/pine barren were also found maintained by the commonly occurring wildfires. Current forest types found in this compartment are mixes of oak, red pine, white pine, aspen, and red maple. After the period of extensive harvesting and large wildfires early 1900's red pine was planted in many areas of this compartment among the residual trees. Current forested mixes show a gradient between stands heavily to oak and stands heavily to red pine. Red maple, aspen and jack pine are also found as stand components and a number of aspen stands have been successfully regenerated in other entry periods. As expected, with the exclusion of wildfire, older oak stands are converting to white pine, older pine stands are converting to oak, and very little natural red pine regeneration is occurring. Current management goals for this entry will be: (1) to increase the vigor of some of the better quality stands through crown thinning, (2) to create some new red pine stands with a deciduous component through planting red pine after harvest operations on sites currently occupied by low quality oak/pine mixes. (clear-cuts with retention), (3) to harvest and replant some stands with a current heavy red pine component. These stands still will certainly have a component of oak, white pine, jack pine and red maple due to the advanced regeneration currently found in these stands, (4) to regenerate some stands with a heavy aspen component, (5) to release the advanced regeneration in some stands converting back to white pine from low quality oak through the reduction of canopy density. See stand specific treatments in following report.

**Soil and topography:**

Slightly rolling to rolling terrain. Few Kettle lakes. Deep glacial outwash sands-mostly Rubicon.

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

Block state ownership in and around compartment with single family homes north of the compartment in the Williamsburg area.

**Unique Natural Features:**

North Branch of the Boardman River, Dead Horse Lake, Twin Lakes.

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

none found

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

The North Branch of the Boardman River, Twin Lakes, Dead Horse Lake, and a small un-named lake are all located within this compartment. Scheduled treatments appear to be well away from the river and most lakes, and should provide appropriate protection for the water bodies. Buffers should be maintained around lakes scheduled for clear-cut treatments in order to protect riparian vegetation, and cutting should not occur in wet riparian areas. As always, the appropriate BMP's should be applied when working in the proximity of surface water.

**Wildlife Habitat Considerations:**

The extreme NW portion of Sec. 21 falls on a steep or irregularly sloped moraines. This Land Type Association has excessively drained soils. It comprises a small portion of this compartment, and contains some aspen, white pine, old well

pads, and private lands within this compartment.

The rest of the compartment is outwash plains of excessively drained sandy soils. Sandy outwash plains typically have a history of large wildfires that resulted in presettlement vegetation that was variable but dominated by fire-dependant conifer forests with oak/aspens/red maple, pine barrens, and oak/pine barrens. These stands 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. 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.

These fires created and sustained a variety of fire driven communities; however parts of this landscape were at times shielded from fire to a degree. Consequently, some management for successional advanced hardwood/white pine stands is fitting to this compartment. 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. Beech was particularly important to wildlife in these drier hardwood types. Efforts should be made to subsidize the loss of beech as a mast tree. Tops should be left onsite, unchipped, and in scattered piles for habitat. Many wildlife species, including broad-winged hawks, wild turkeys, southern flying squirrels, eastern gray squirrels, and Baltimore orioles, are associated with these forest types.

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

Openings are an important part of this dry and fire prone landscape. Opening maintenance will continue in the compartment to benefit grassland species and species utilizing the edge component of these openings, such as, cedar waxwing, deer, wild turkey, mourning dove, meadow vole, or red fox.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no current economic use for the Coldwater. Gravel pits are not in this area, but there should be potential along the north edge. This area is located in the prolific Guelph (Niagaran) reef trend and has had previous production. The Compartment is nearly all leased and additional reefs could be found in the compartment. The Antrim Shale has not been developed in this area, but may have future potential.

### **Vehicle Access:**

good with county roads and a network of state forest roads allowing access to most areas in the compartment. Topographic features (dips and drains) limit truck access in areas.

### **Survey Needs:**

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

Boardman Valley Snowmobile Trail, Shore to Shore Hiking Trail and North Country Trail.

### **Fire Protection:**

This area is protected by the Traverse City Office of the DNR and the Grand Traverse County Fire Departments. Travel time to the area is acceptable. Accessibility is sufficient with Williamsburg road running north to south on the west side of the compartment. Broomhead road on the east side of the compartment also allows for a rapid fire response to the compartment. A zone dispatch area is immediately to the south and east of the compartment. Water access (Boardman River) is relatively close south of the compartment which could be used for fire suppression if needed.

### **Additional Compartment Information:**

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

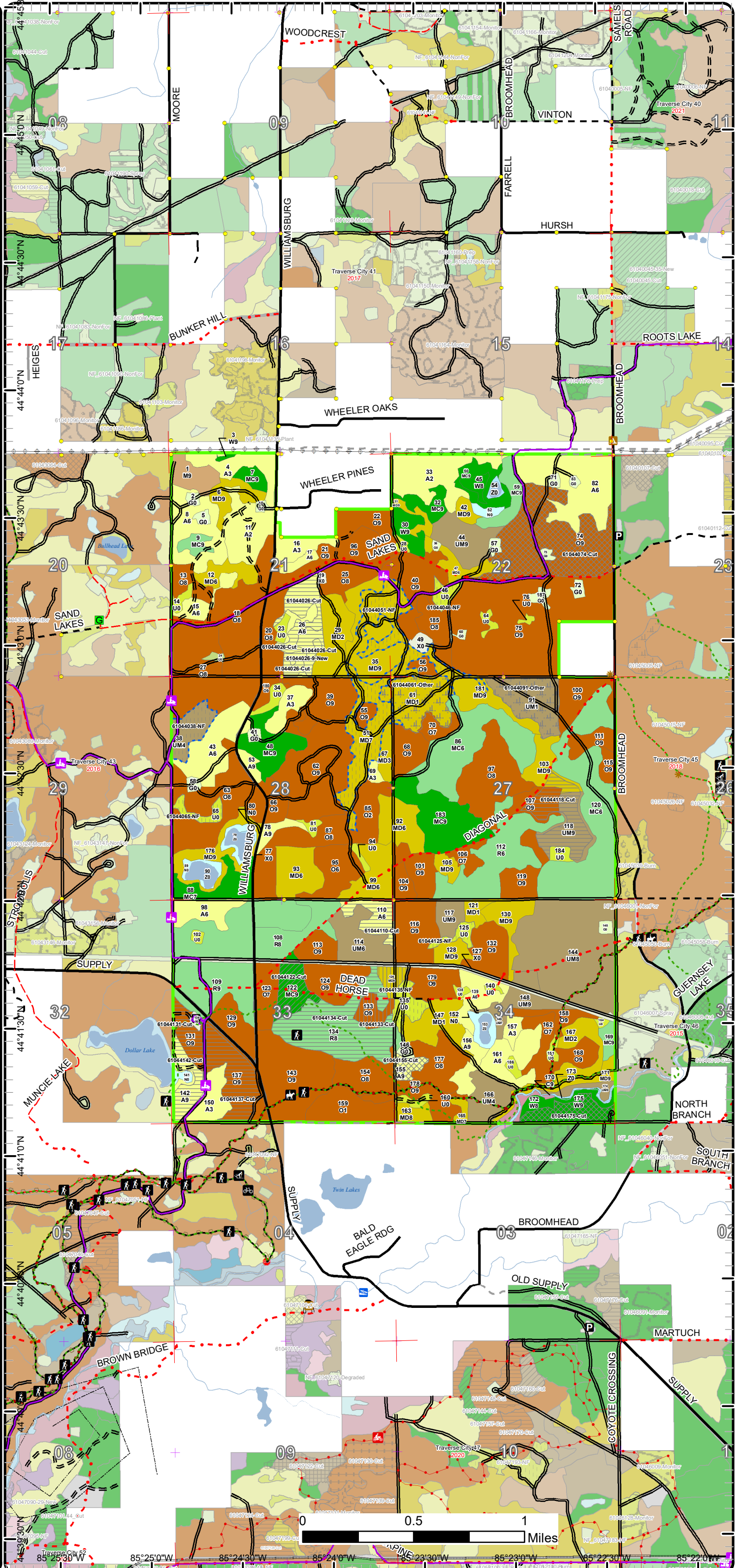
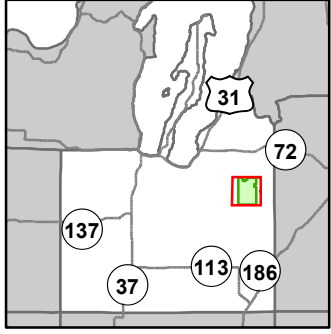
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

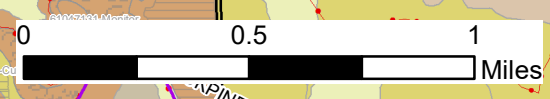
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 44  
 T27N, R09W, Sec. 21, 22, 27, 28, 33, 34  
 County: Grand Traverse  
 Unit: Traverse City  
 Mgmt Area: Boardman Plains  
 YOE: 2023  
 Acres: 3704.4 GIS Calculated  
 Examiner: Pat Ruppen  
 Map Revised: 9/15/2021  
 Map Phase: Post-Review



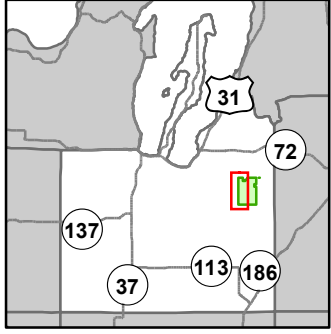
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Gate
- Campground
- Parking Lot
- Trailhead
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated



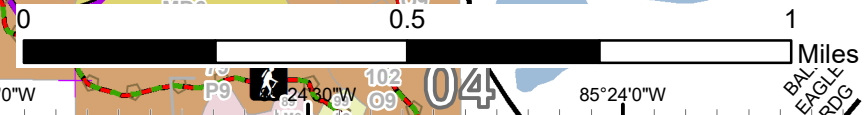
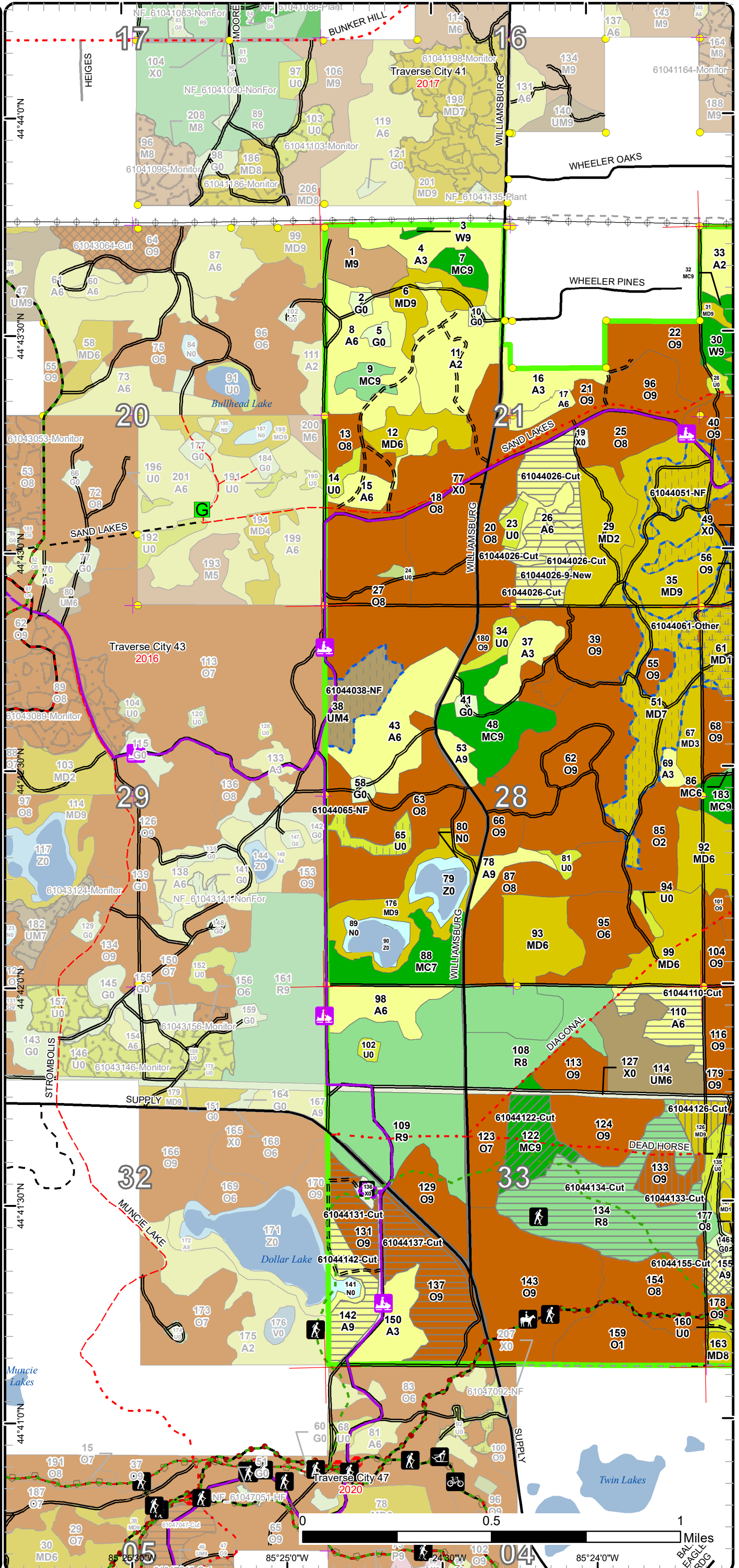
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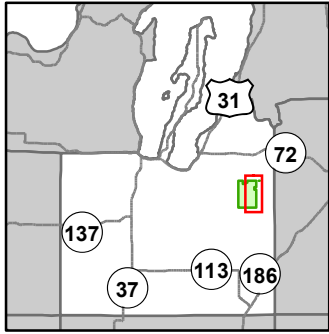


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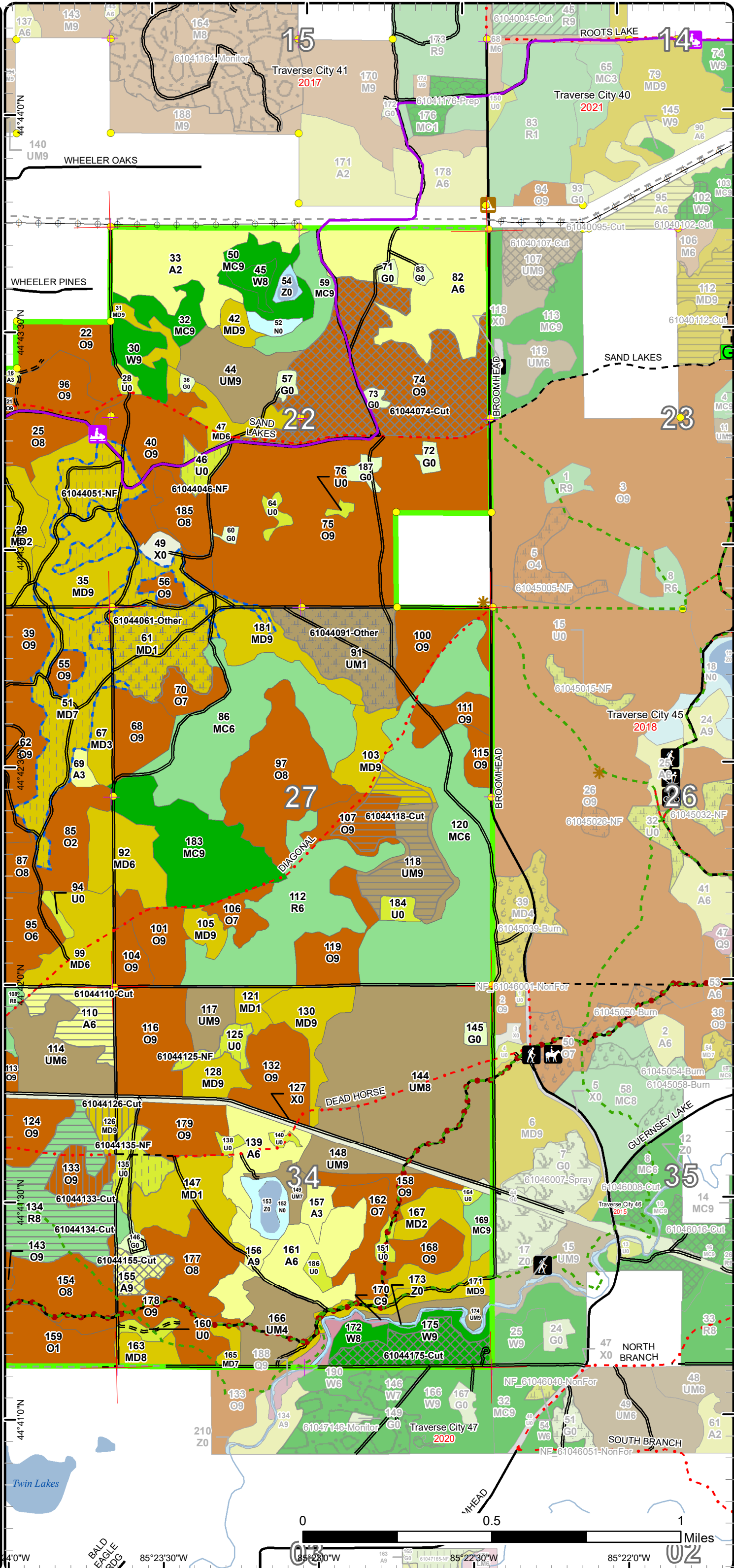


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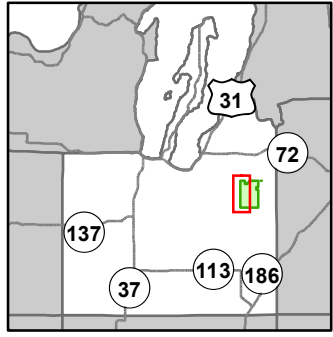


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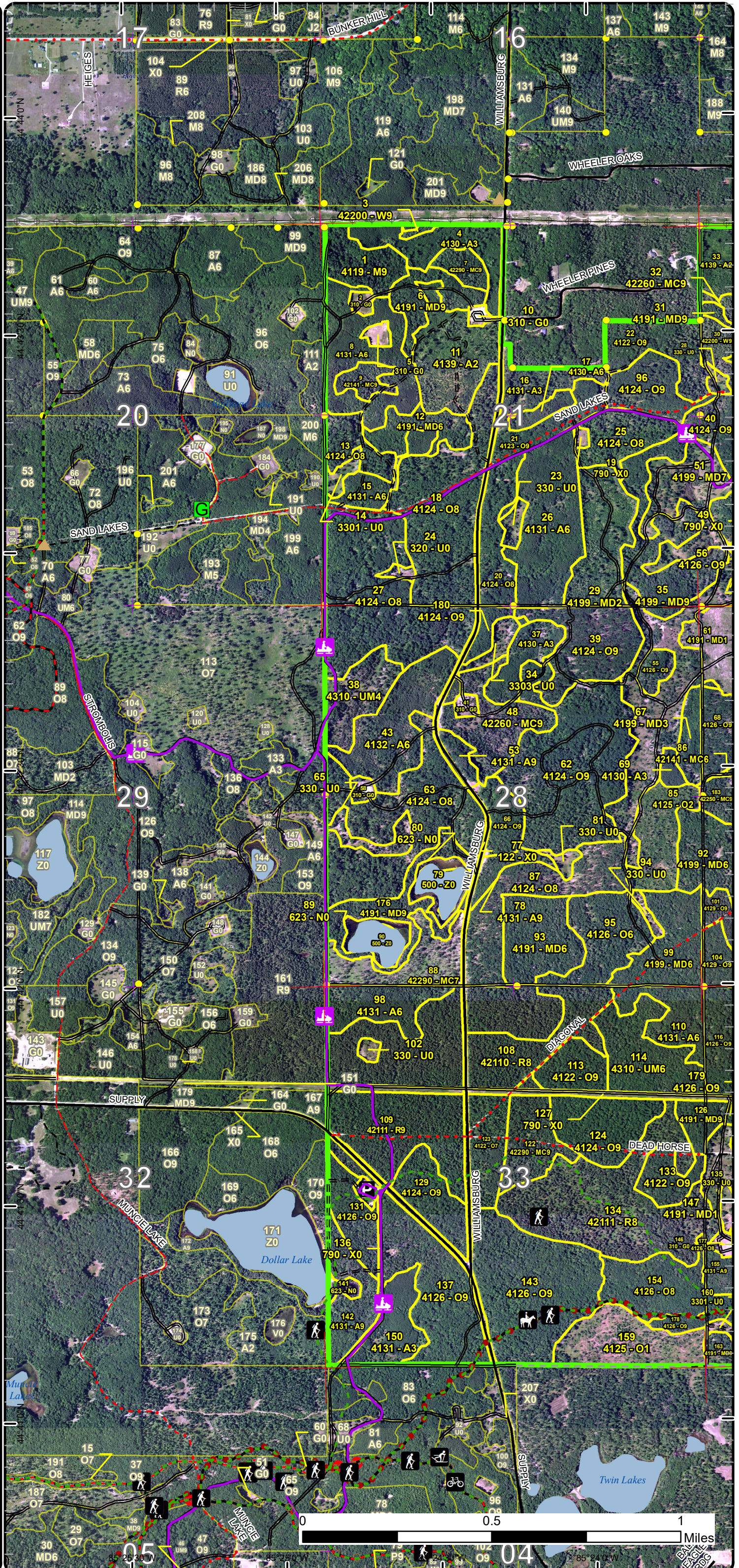


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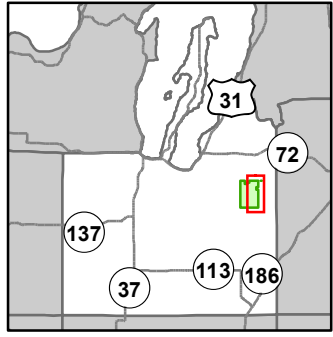
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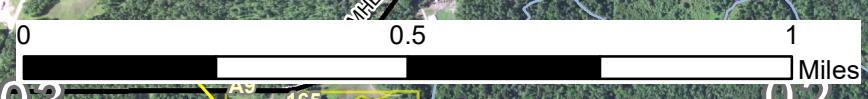
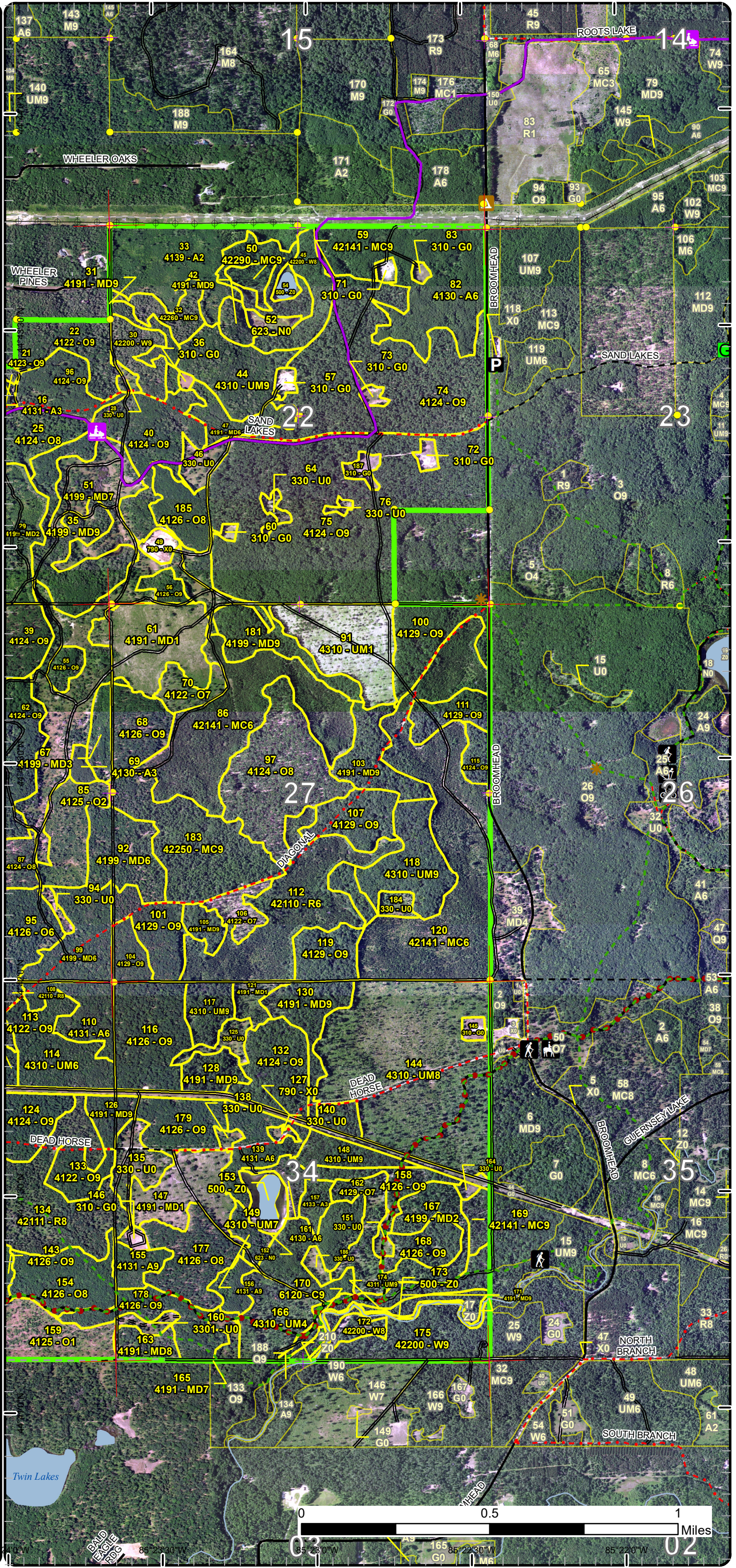
Miles

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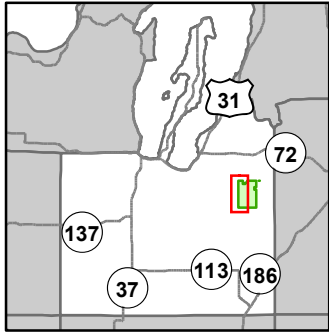


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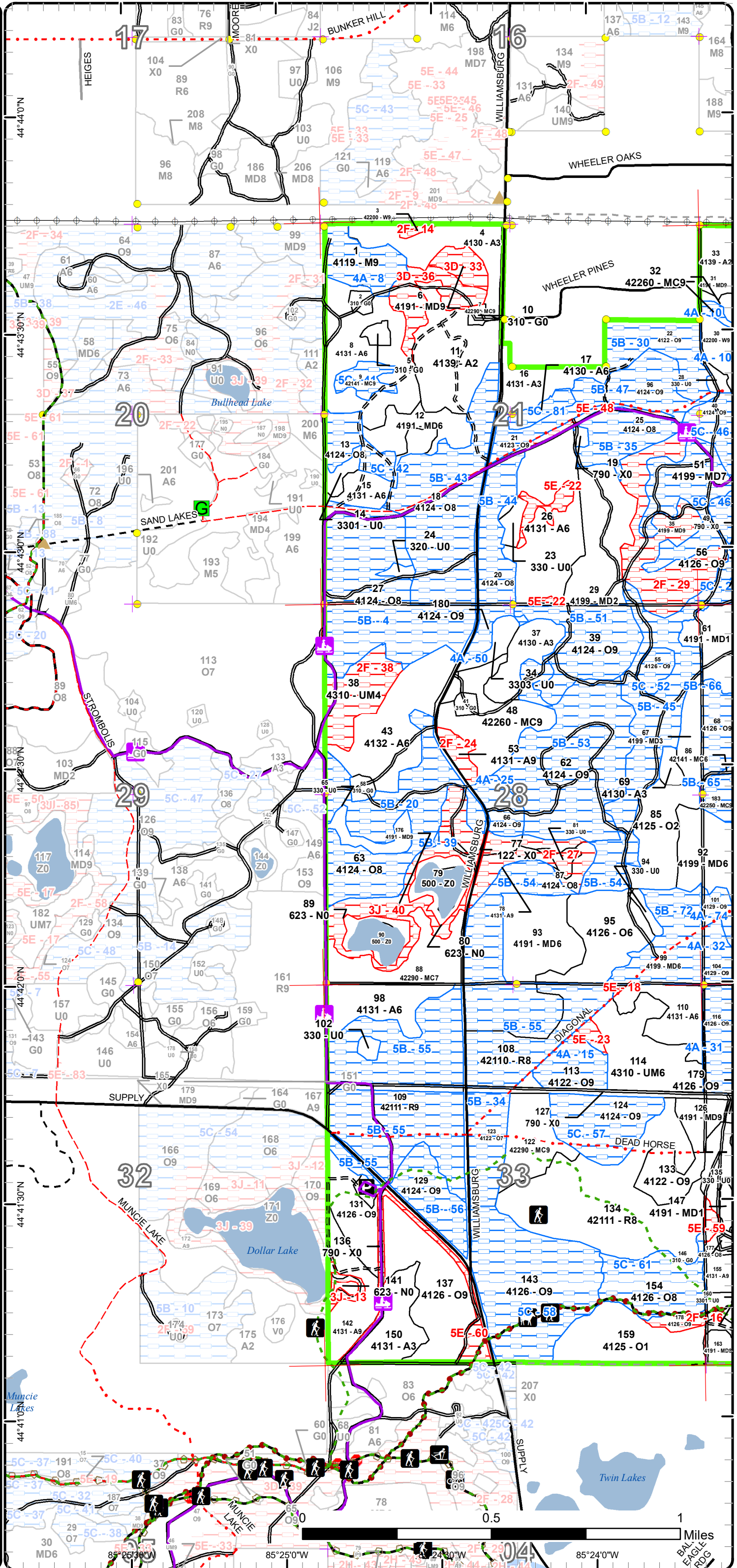


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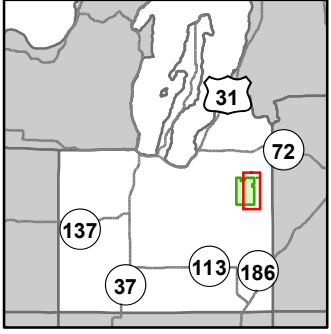


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- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Zoning District

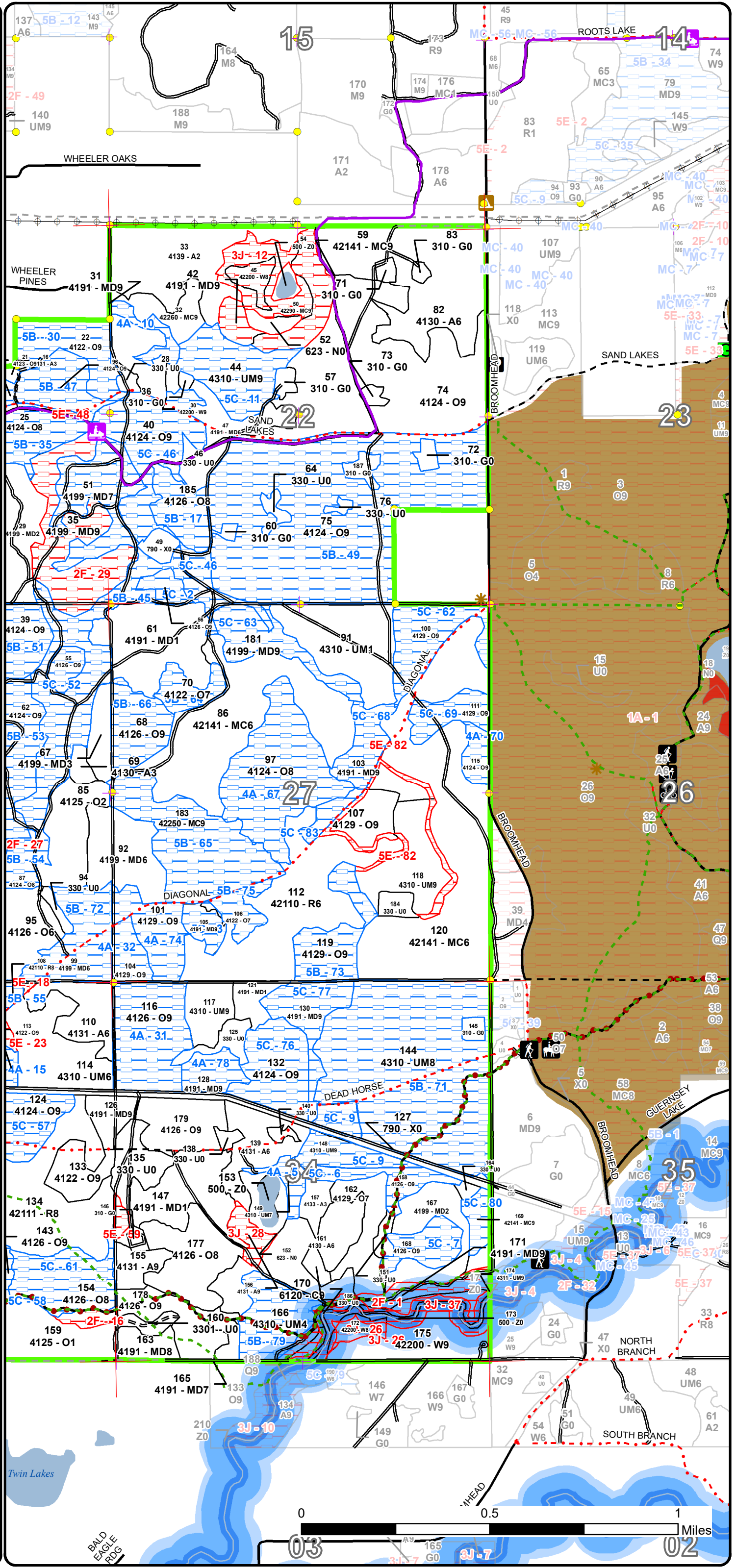


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- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Dedicated Management Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	91	53	179	98	26	0	19	6	7	5	0	0	0	0	0	0	484
Bare/Sparsely Vegetated	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Cedar	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Low-Density Trees	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Marsh	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	63	38	14	34	14	26	0	8	39	73	149	0	15	0	0	0	46	519
Natural Mixed Pines	0	0	0	0	0	0	0	23	0	69	27	16	0	7	0	0	0	12	153
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Oak	0	0	22	30	0	0	27	0	0	9	174	1029	87	0	0	0	0	85	1463
Planted Mixed Pines	0	0	0	0	172	0	0	0	0	6	7	0	15	0	0	0	0	0	199
Red Pine	0	0	0	0	60	0	0	0	0	212	0	0	0	0	0	0	0	0	272
Upland Mixed Forest	0	36	0	0	0	0	49	0	18	45	149	0	28	0	0	0	0	0	325
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	0	0	0	41	5	0	0	5	1	0	0	0	0	52
<b>Total</b>	<b>213</b>	<b>99</b>	<b>151</b>	<b>97</b>	<b>445</b>	<b>112</b>	<b>128</b>	<b>23</b>	<b>86</b>	<b>396</b>	<b>437</b>	<b>1199</b>	<b>152</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>143</b>	<b>3702</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 44  
Total Compartment Acres: 3,704

Commercial Harvest - 404  
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	72	8	0	0	0	0	0	0	0	80
Mixed Upland Deciduous	0	0	0	0	8	0	0	0	0	8
Natural Mixed Pines	0	0	0	0	0	19	0	0	0	19
Oak	51	100	0	0	11	0	0	0	0	162
Red Pine	73	0	0	0	0	0	0	0	0	73
Upland Mixed Forest	38	0	0	0	0	0	0	0	0	38
White Pine	0	23	0	0	0	0	0	0	0	23
<b>Total</b>	<b>235</b>	<b>131</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>404</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	404	0	0	0	0	0	74	140		618
Next Step	0	174	174	0	0	174	574	0	0	1095
<b>Total</b>	<b>404</b>	<b>174</b>	<b>174</b>	<b>0</b>	<b>0</b>	<b>174</b>	<b>574</b>	<b>74</b>	<b>140</b>	<b>1713</b>



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

**Proposed Treatments:**

<b>26</b>	<b>61044026-9-New</b>	10.5	4131 - Aspen, Oak	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Two-Aged	No
<p><u>Prescription</u> Green mark some well formed pine, oak, and maple as found and harvest remainder of the stems.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> aspen/oak/pine/maple  <u>Other Comment:</u> Bike trail through southern part of stand.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>26</b>	<b>61044026-Cut</b>	28.4	4131 - Aspen, Oak	Poletimber Well	48	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
<p><u>Prescription</u> Mark well formed oak and pine for retention and harvest remaining stems to regenerate stand. Retention area in central part of stand.  <u>Specs:</u>  <u>Next Step</u> ; Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> aspen/oak/pine/maple  <u>Other Comment:</u> Un-official bike trail through southern part of stand.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>38</b>	<b>61044038-NF</b>	19.4	4310 - Pine, Oak Mix	Poletimber Poor	55	1-50	NonForestMgt	Brush Cutting	330 - Low-Density Trees		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 Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u> Too Steep  <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
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<b>46</b>	<b>61044046-NF</b>	7.2	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	330 - Low-Density Trees	No
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Prescription 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.

Next Step  
Treatments:

Acceptable  
Regen:

Other Use appropriate methods to protect snowmobile trail and its surface during project implementation.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>51</b>	<b>61044051-NF</b>	86.9	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	102	1-50	NonForestMgt	Brush Cutting	330 - Low-Density Trees	No
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Prescription 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.

Next Step  
Treatments:

Acceptable  
Regen:

Other Use appropriate methods to protect snowmobile trail and its surface during project implementation.  
Comment:

Site Condition Shelterwood/Seed Source

Proposed Start Date: 10/1 /2022

<b>65</b>	<b>61044065-NF</b>	7.0	330 - Low-Density Trees	Nonstocked			NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub	No
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Prescription 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.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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>74 61044074-Cut</b>	99.5	4124 - Red with White Oak	Sawtimber Well	104	81-110	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Mark stand to remove poor formed trees and reduce canopy closure. Keep most pine and better formed deciduous trees. Target Basal Area 40-70. Consider snow mobile trail passing through stand while marking. Retain more canopy along trail corridor. Follow snowmobile trail/harvest specifications when implementing treatment.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> oak, pine, aspen, maple</p> <p><u>Other Comment:</u> White pine seedlings still filling in gaps. Canopy stocking is variable. Oak is generally lower quality. Could reduce canopy closure to release understory white pine. Stand moving toward wp. Keep pine and better formed oak. Shortwood harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>110 61044110-Cut</b>	17.2	4131 - Aspen, Oak	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Retain well formed oak and pine and harvest remaining stems to regenerate stand. Retention area in NW corner</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, oak, pine, red maple</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>118 61044118-Cut</b>	38.2	4310 - Pine, Oak Mix	Sawtimber Well	93	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Retain some well formed widely scattered oak and pine and harvest remaining stems to 1" dbh. Prefer that tops be chipped to prep site for planting. If chipping is not possible, consider these steps. Chipping for site prep:</p> <p><u>Specs:</u></p> <ol style="list-style-type: none"> <li>Promote chipping through sale specs; include liability clause (\$250/acre) so that buyers know what is required</li> <li>a. Mitigate residual slash e.g. move to edge of site, remove from site (this is where it would help to see some successes or have some training)</li> <li>b. Spread out the slash and flat plant</li> <li>3.Spend some cultivation money to prepare site – we are hoping to have more options in the near future</li> <li>4.Variance to change the management objective if the original plan cannot be achieved</li> </ol> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> planted red pine</p> <p><u>Other Comment:</u> Plant red pine after site prep. Retention areas on perimeter of treatment.</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
<b>122 61044122-Cut</b>	19.3	42290 - Natural Mixed Pine	Sawtimber Well	84	81-110	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Mark stand for crop tree release. Reduce basal are to 80-100 target range.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> pine, oak, maple, aspen.  <u>Regen:</u>  <u>Other</u> Consider North Country Hiking Trail through stand when marking.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>125 61044125-NF</b>	6.1	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.  <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>										
<b>126 61044126-Cut</b>	8.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	105	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Retain well formed oak and pine poles to shelter stand and harvested remaining stems. Red pine poles and scattered oak poles of good quality noted in inventory. Red pine poles may release after harvest but if not will serve as shelter for new stand development. Basal area after harvest will be variable but generally 10-40 ba.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Oak, pine, maple, aspen.  <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
<b>131 61044131-Cut</b>	15.5	4126 - White, Black, N. Pin Oak	Sawtimber Well	93	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Retain some oak and pine in pockets or as individual trees and harvest remaining stems to 1" dbh to prepare site for planting. Chipping for site prep:</p> <p><u>Specs:</u></p> <ol style="list-style-type: none"> <li>Promote some cultivation money to prepare site; include liability clause (\$250/acre) so that buyers know what is required</li> <li>a. Mitigate residual slash e.g. move to edge of site, remove from site (this is where it would help to see some successes or have some training)</li> <li>b. Spread out the slash and flat plant</li> <li>3. Spend some cultivation money to prepare site – we are hoping to have more options in the near future</li> <li>4. Variance to change the management objective if the original plan cannot be achieved</li> </ol> <p>Plant red pine after harvest and site prep. Mixed oak sizes with rm, aspen and a little wp/rp. Pin Oak is poor quality and falling out. Some decent white oak and rm poles. Aspen is declining. Dead standing oak through stand.</p> <p><u>Next Step</u> Site Prep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)</p> <p><u>Acceptable</u> planted red pine, white pine, oak, aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> North County Trail through stand. Consider in marking. Snowmobile Trail corridor is excluded from treatment. If trail is used for hauling, use appropriate contract specifications.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>133 61044133-Cut</b>	11.4	4122 - Oak, Pine	Sawtimber Well	105	51-80	Harvest	Shelterwood	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Stand has large poor formed oak with red pine poles that had been interplanted. Some well formed oak in stand as well. Retain well formed oak for nut production and all red pine and white pine unless damaged. Remove poor formed oak and damaged pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Site Prep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> planted red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Expect new age of oak, red maple and white pine to form in sub-canopy. Red pine may be stunted but will serve as shelter for new stand formation.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>134 61044134-Cut</b>	72.9	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	84	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Retain some trees along county road. Also create some retention within stand through retention areas or retention trees. Harvest remaining stems to 1" dbh to prepare site for red pine planting. Consider trails through stand (NCT). Retain some trees along trail for confidence marking. Keep open sky as possible for aerial spraying. Linear and pocket retention alright. Small part of stand south of road and adjacent to stand 133 should be treated as stand 133. Chipping of tops preferred to reduce slash loading but may be possible to prep for planting with other measures such as heavy slash reduction and scattering.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Site Prep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> planted red 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>										



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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>135 61044135-NF</b>	12.9	330 - Low-Density Trees	Nonstocked		Unspecified	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 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>										
<b>137 61044137-Cut</b>	35.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	102	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Retain some widely spaced well formed white oak and pine and harvest remaining stems to 1" dbh. Chipping for site prep:</p> <p><u>Specs:</u></p> <ol style="list-style-type: none"> <li>Promote chipping through sale specs; include liability clause (\$250/acre) so that buyers know what is required</li> <li>a. Mitigate residual slash e.g. move to edge of site, remove from site (this is where it would help to see some successes or have some training)</li> <li>b. Spread out the slash and flat plant</li> <li>3.Spend some cultivation money to prepare site – we are hoping to have more options in the near future</li> <li>4.Variance to change the management objective if the original plan cannot be achieved</li> </ol> <p>Visual management concerns along supply road and slash concerns if chipping is not possible. . Trail in SE corner is excluded from treatment.</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable Regen:</u> planted red pine, white pine, oak, aspen</p> <p><u>Other Comment:</u> herbicide will be required to control sprouting for initial planting. A mixed stand may still result after that but with a heavy red pine component. Snowmobile Trail corridor is excluded from treatment. If trail is used for hauling, use appropriate contract specifications.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>142 61044142-Cut</b>	16.2	4131 - Aspen, Oak	Sawtimber Well	75	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Two-Aged	No
<p><u>Prescription</u> Retain well formed oak and maple and harvest the remainder to regenerate stand. Some areas heavier to oak could have heavier retention.</p> <p><u>Specs:</u> Riparian area around lake will be long term retention. North Country Trail along Lake. Retain Buffer as needed.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen/pine/oak/maple</p> <p><u>Other Comment:</u> Snowmobile Trail corridor is excluded from treatment. If trail is used for hauling, use appropriate contract specifications.</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
155 61044155-Cut	8.0	4131 - Aspen, Oak	Sawtimber Well	53	81-110	Harvest	Group Selection	4131 - Aspen, Oak	Two-Aged	No
<p><u>Prescription</u> Remove aspen by specification and mark areas with higher oak concentration for crop tree release. Retain (green mark) some aspen for future snags. Aspen is patchy. Attempt to expand aspen clones.</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> Oak, aspen, maple, 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>										
175 61044175-Cut	23.1	42200 - Natural White Pine	Sawtimber Well	75	111-140	Harvest	Single Tree Selection	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription</u> Mark stand for quality and crop tree release. Remove large weevilled pine as possible. Thin poles as possible. Remove most aspen by spec. Green mark aspen for retention. with cavity potential for nesting.</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> pine, oak, maple, aspen, birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Avg ba 130 but variable 80-180. Some areas with heavier stocking of wp poles. Some is weevilled. Aspen should be harvested. Could mark through pine. Mixed stocking and diameters.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Approved Treatments:**

61 61044061-Other	37.9	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5	Immature	Other	Other	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> POSTPONED FROM 2021. Mechanically remove competition to bring planted red pine to "free to grow" status</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /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
91 61044091- Other	36.4	4310 - Pine, Oak Mix	Sapling Poor	5	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Reduce competition around planted red pine to bring to free to grow condition.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, 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> 1/19/2021</p>										

Total Treatment 618  
Acreage Proposed:

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Pat Ruppen : Examiner

Compartment: 44  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions									
		With Condition				2E	4A	5B	5C	2F	3D	3J	5E	ed	
484	452	6		26	Aspen	0	1	0	5	12		8	6		
33	30	0		3	Bare/Sparsely Vegetated				0				3		
5	0	0		5	Cedar					1		3			
32	32	0		0	Herbaceous Openland			0							
76	74	0		3	Low-Density Trees				0	3			0		
25	24	0		1	Marsh							1			
519	236	187		97	Mixed Upland Deciduous		16	113	57	50	15	30	2		
152	81	49		22	Natural Mixed Pines			49	0		7	15			
17	0	17		0	Northern Hardwood		17								
1464	332	1096		36	Oak		149	680	267	13		7	15		
200	172	13		15	Planted Mixed Pines				13			15			
273	133	135		4	Red Pine		0	135	0				4		
324	101	192		31	Upland Mixed Forest		6	142	45	22		4	5		
2	2	0		0	Upland Shrub										
23	23	0		0	Urban										
21	17	0		4	Water							4			
53	36	0		17	White Pine		0			1		16		0	
3,702	1,746	1,694		263	Total Forested Acres	0	188	1,119	387	103	22	104	35	0	
	47%	46%		7%	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	2F: Too steep	17	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 44

Year of Entry: 2023

2	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> HIGH POCKETS WITHIN LARGE G TYPE-NICE VISTAS. Harvest may cause excessive erosion A6 2011FMD: Pocket of oak on rise. Could reduce pasal area if nearby. Not enough for a stand alone sale. Access may be an issue.							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lower quality oak logs with pp/oak/rm/aspen poles grown in. Lots of wp regen 10-30' in places. There is some well formed oak but overall not good quality. Could cut this with stand to east to regenerate and release pine. Some planted rp in stand.							
4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	71	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021 FMD: Should let understory develop and aspen will put on more volume. Some areas with thicker oak seedlings but a lot is just red maple sprouts . Consider removing most overstory next entry. Aspen clones would do well if kept another cycle and open areas would continue to fill in if stand is held							
5	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Jack pine along Dead Horse Lake. Falling out. Will look pretty bad along lake soon. It would be nice to get this out and plant something. Not much volume. Some oak and white pine growing in under but sparse.							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Bigger open grown oak with jp in east end. Some wp/rm/oak poles mixed in. Could cut back and plant red pine along with some adjacent areas. Skip frost pockets for planting.							

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7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Open grown look of oak with low quality poles and red maple grown in. A little white pine as well. Not much for quality in the oak. Could green mark some better formed oak and plant red pine or laeve as oak pocket or cut out some of the lower quality stems and leave as oak pocket. There is already a lot of young aged oak/aspen in area. Ground lays good for planting and managing red pine. Would work well with other adjacent areas considered for planting.							
8	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021:2021: Some good quality sm and ro in stand that could be harvested but little hope for successful desired regeneration. BA is a little high in places. Removal of marketable trees would reduce value and quality drastically. Most of stand is on slopes. Steeper areas would be challenge to manage. Some maple regen but most is ironwood. 2003 FMD stand thinned in 1996 - beech regen with some sugar maple. 2011FMD; ts# 043-95. Cut marked trees. completion 12/97. Steep slopes. Some nice red oak on ridge. Some regeneration but not impressive. Basal area is up again. Consider thinning stand. May not be economical due to slopes and quality of what should come out.							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Consider cutting back to scatterd well formed oak and replanting to red pine after harvest. Exclude steep ground on west side.							
10	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Aspen, rm,oak on sidehill and drain. Acess is limited by terrain. Mixed ages of pine. Some is 106 and some in the 66 yr age from previous inventory. Aspen @ 85Yr estimate. Aspen should come out but terrain is limiting access.							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Nice red oak and red maple with pine. . Pine looks healthy. Most is manageable but some steep areas. Has been thinned in past. A little beech and sugar maple. Look at next entry. Let stand put on volume. Stocking in not too high at this time.							

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12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	42	2F: Too steep	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Old Pines on slopes around water. Possibly pine planted by Wheeler Family. Part of Wheeler Pines Property							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	4A: No Markets Available for these Forest Products	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: Stand treated 2020. Cut back to better formed oak and pine.							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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20	Available	5B: Maintain for regeneration purposes	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unspecified	Unspecified	0				
<b>Comments:</b>							
22	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Available	4A: No Markets Available for these Forest Products	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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27	<b>Unavailable</b>	<b>2F: Too steep</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>2F: Too steep</b>	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021FMD: Mixed Stocking and diameters. Average Oak. White pine saplings in understory and wp seedling developing in gaps. Pockets of aspen regen 20-30' tall. Let stand develop. 2003fmd; O4O8A4M4 Cut under contract # 61-079-05-01. Sale completed August 2006.Cut all aspen rm, bc-no oak or pine							
31	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021FMD: Keep limiting factor for visual quality and diversity. Nice stand with potential to grow into old aged pine.							

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34	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	3D: Recreational / Scenic values	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021FMD: Recommend retaining this stand for diversity. Old pine component. Nice mixed stand. Terrain would make operation difficult. 2003FMD: Factor limited scenic visual values.							
37	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Riparian Setback on Boardman River Natural River							
38	Unavailable	2F: Too steep	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Available	5B: Maintain for regeneration purposes	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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40	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021FMD: Keep this small area to grow into large pine. Good diversity considering surrounding treatments.							
42	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021FMD: Park like oak stand Variable stocking. Some patches of pole sized aspen. Not much under story development. May be a good oak patch to keep with all the managed aspen around area.							
43	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Open areas with little regeneration but some areas with oak regen getting past browse height. Red maple sprouts and sapling from seed. Average quality oak. A few aspen clones regenerated. A few natural red pine saplings growing well. . TS# 6106705 Cut all marked oak and aspen/rm. Closed 11.07							
44	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Lower density oak log trees. Formation of new age class after last harvest has been largely unsuccessful. Some rm sprouts and a limited amount of aspen. Light oak seedlings in understory still getting browsed. Canopy was reduced in last harvest to a level that should allow for oak establishment in understory over time. Let stand develop.							
45	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	87	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Low density forested in frost pockets.							

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46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Lower quality oak with wp poles and saplings. Stand seems better suited for pine. South part of stand was treated 2020 (thinned back to better quality oak). Watch to see how this stand regenerates.							
47	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Not enough volume available to make treatment marketable and little desirable regeneration has formed in understory yet. Let stand grow in.							
48	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Strip between road and snowmobile trail.							
49	Available	5B: Maintain for regeneration purposes	157	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Some seedlings forming in gaps bur not heavy. Let stand grow in. . Broomhead oak timber sale North part cut between 2007-2010. South part cut 2016-17.							
50	Available	4A: No Markets Available for these Forest Products	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Stand is lower quality mix. Not enough quality to thin at this time. Looks like it was thinned in the past.							
51	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Little oak understory forming. Red maple sprouts and seedlings. Some rm sprouts getting past browse height. Everything else is heavily browsed at this time. TS# 076-13. Harvested 8/2015. Cut all orange marked and all red maple/aspen 2" dbh+. Some green marked rm for retention.							

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52	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Low quality oak mix. JP falling out. Mixed oak log/poles. Leave stand for bedding/feeding area.							
53	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Some oak sapling and seedlings making it past browse level. Let stand grow in and understory develop. Oak should continue to fill in under. Small aspen clones sprouted from last harvest.							
54	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Red maple and oak sprouts and seedlings developing under canopy. Not a lot of new wp seedlings yet. Let stand develop. TS# 039-13. Harvested 12/2016. Orange marked thinning and cut all aspen							
55	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	135	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Stocking is variable. Most areas not overstocked. Considerable red maple, oak, aspen understory. Considering either letting stand put on more volume or removing most red pine to release new stand. Not certain about how to let this stand convert successfully.							
56	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Low quality oak logs with some small poles/sprouts from last harvest and saplings and seedlings getting browsed.							
57	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: Treating nearby stands. Hold this and look at next entry.							

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58	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	64	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Adjacent areas being treated this entry.							
59	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
60	Unavailable	5E: Long-Term Retention	11	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
61	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Adjacent areas being treated							
62	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: Let stand grow in volume. Would make good red pine planting site in future. Not much understory at this time.							
63	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Mixed oak and pine with aspen and red maple. More aspen in west part. Good island between planted pine stands. Let stand grow in.							

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64	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Seed tree type retention from last harvest. Good oak regeneration in the west lobe. Looks like most is pin oak. Let stand develop. TS# 019-13. Cut merchantable. Green marked retention. Harvested 10/2014							
65	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Likely harvested in 1987 with stand to west. RM oak and aspen sprouts created from last harvest. A lot of oak, cherry, and white pine understory. Aspen clones scattered in stand. Looks like most pine was left. Mixed sizes of pine. Stump sprouts from last harvest grown into canopy and heavy sapling understory developed since. Pretty complicated stand with logs/poles/saplings. Let stand develop and self thin							
66	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Some oak and red maple saplings filling in under. TS# 019-13. Harvested 10/2014. Marked thinning, Cut orange marked and all aspen/jp.							
67	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Stand looks good after thinning. Good oak seedlings and saplings in areas. RM/aspen sprouts. Decent quality mixed stand. TS# 005-13. harvest 9/2015. Marked for crop tree release. Cut all rm/aspen.							
68	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Nice mixed stand. Mixed sizes. Could cut and plant this ridge next entry. Let nearby planted pine develop. Let this stand grow in for now							
69	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 20201: May be good to leave this as oak pocket surrounded by pine plantation.							



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70	Available	4A: No Markets Available for these Forest Products	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Let stand grow in. Could use a light thinning if nearby but not enough volume to stand alone. Some pockets of younger aspen. Stocking is variable.							
71	Available	5B: Maintain for regeneration purposes	121	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Shelter-wood harvest with regen forming.							
72	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: White oak poles with aspen and red maple. Not a lot of quality and stocking is not high. Aspen is patchy. Some areas heavier to white oak and red maple. Some older trees scattered around-retention from last harvest. Let stand develop.							
73	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Mixed oak,pine with red maple. Mixed oak sizes XL/L/P. Average quality and stocking is good at this time. Let stand grow in. Oak seedlings in patches getting browsed heavily. Areas with heavy rm salpings							
74	Available	4A: No Markets Available for these Forest Products	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Stand could possibly be thinned for crop tree release but would start red maple sprouts that would impede future options. On the edge of having enough quality to thin. Could let stand put on volume and consider harvest and plant next entry. Stocking is generally not too high at this time but it is variable.							
75	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2020: Good aspen regen in most of the stand. Some rm sprouts past browse size. Oak seedlings getting browsed heavily. TS# 006-13. Harvested 9/2015. Cut merchantable but no red or white pine 6" of less. Green marked retention of oak, maple, pine.							

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76	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Oak logs with red maple poles with some aspen and wp poles. Stocking is slightly high. Could be thinned lightly but most removed trees would be red maple which would just start new rm age. Most better quality trees have strong crowns. May be best to let this grow for now.							
77	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Red pine looks good in stand but the oak is average. Stocking is generally fine. Don't see enough quality to merit thinning. Would be a good stand to cut and plant red pine after adjacent stand to east grows in.							
78	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: Mix of oak, rm,wp logs and poles. Stocking is low and stand is poor quality. Heavy rm saplings under. Small acreage and volume would likely not sell alone. Consider treatment when in area.							
79	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> New stand forming after harvest.							
80	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Adjacent clear cut. Wait on this.							

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81	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Harvest large nearby aspen stand and stand to north has been recently harvested. Keep this for age class diversity at this time.							
82	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
83	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Look at next entry.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments
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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
1	4119 - Mixed Northern Hardwoods	Sawtimber Well	16.7	111	111-140	N/A	2021: Some good quality sm and ro in stand that could be harvested but little hope for successful desired regeneration. BA is a little high in places. Removal of marketable trees would reduce value and quality drastically. Most of stand is on slopes. Steeper areas would be challenge to manage. Some maple regen but most is ironwood. Areas with blowdown. No beech scale found. Bike trail through stand. 2003 FMD stand thinned in 1996 - beech regen with some sugar maple. 2011FMD; ts# 043-95. Cut marked trees. completion 12/97. Steep slopes. Some nice red oak on ridge. Some regeneration but not impressive. Basal area is up again. Consider thinning stand. May not be economical due to slopes and quality of what should come out.																																																																											
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3	42200 - Natural White Pine	Sawtimber Well	1.2	123	111-140	N/A	2021: Various sized wp. Some large and old. Keep as retention area. 2011FMD: Looks like retention pocket from last sale in low area. Valley and side slope. Lager pine and some hemlock. Some pine planted in 1932-interplanted among residual pine?																																																																											
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4	4130 - Aspen	Sapling Well	22.3	25	111-140	N/A	2021FMD: Good growth. Fair amount of sub-canopy white pine. 2003FMD A3 TS# 011-95. Cut all to 2"dbh. Completion 11/96 2011 FMD: Good regeneration. Some residual pine and oak left from last harvest.																																																																											
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6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.8	123	111-140	N/A	2021FMD: Recommend leaving this stand for diversity. Nice mixed stand. Terrain would make operation difficult. 2003FMD: Factor limited scenic visual values. 2011FMD: Mix of old pine/oak/aspens Thick w/ regen in spots 5-10'. Valleys and hill sides.																																																
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7	42290 - Natural Mixed Pine	Sawtimber Well	6.9	123	111-140	N/A	2021FMD: Keep limiting factor for visual quality and diversity. Nice stand with potential to grow into old aged pine. Old grade road through stand. 2003FMD: Limiting Factor Scenic/visual values. W9 2011 FMD: Large old pine mix with younger age classes grown in. Leave as older natural pine pocket. Pine planted in 1932. Must have interplanted around residual pine.																																																
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8	4131 - Aspen, Oak	Poletimber Well	36.7	47	111-140	N/A	2021FMD: Mixed density. Some areas heavier to aspen where clones regenerated after last harvest. SW part of stand heavier to RM, Oak. 2003FMD:A6 Scattering of Oak an pine sawtimber 2011 FMD; Red oak growing well in aspen-out growing aspen at this point. Good stocking overall.																																																
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9	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	6.5	92	81-110	N/A	2021FMD: Keep this small area to grow into large pine. Good diversity considering surrounding treatments. 2003FMD: Cut this stand out of surrounding stand as it has a lot more pine. The aspen was cut out of this stand when surrounding stand was harvested last. Depression in aspen cut. Area planted with red and white pine in 1932. Some older pine and oak in stand as well.																																																
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11	4139 - Aspen, Mixed Deciduous	Sapling Medium	32.9	14	Immature	N/A	2021FMD: Some areas of patchy regeneration but others have solid stocking. Good bit of white pine filling in gaps. May continue to fill with wp or rm from seed. Stand was aspen oak pine. Cut back to residual oak/pine 11/08 to regenerate. Expect stand to return to forested type.																																														
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12	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.9	42	81-110	N/A	2021FMD: RO an RM from stump sprouts. RO outgrowing RM. 2003FMD: M52011FMD; Scattered pine and oak retention with 32 year old stand growing through. Heavy to rm stump sprouts. Some rp poles in stand that were likely planted about																																														
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13	4124 - Red with White Oak	Sawtimber Medium	12.4	103	1-50	N/A	2021FMD: Park like oak stand Variable stocking. Some patches of pole sized aspen. Not much under story development. May be a good oak patch to keep with all the managed aspen around area. 2003FMD: O8 T.S. # 10-95. Scattered pockets of A3 within stand Cut aspen, mixed hardwood, trace of jp and orange marked oak. Completion 12/99. Not regenerating much yet. Some red maple and aspen but getting browsed badly so far. Small patches of young aspen.																																														
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14	3301 - Low Density Deciduous Trees	Nonstocked	3.6		Unspecified	No																																															
15	4131 - Aspen, Oak	Poletimber Well	11.2	47	111-140	N/A	2020: Scattered oak and pine retention from last harvest. This stand could be harvested this entry or left to put on more volume. Good height growth. Could retain some well formed oak and pine if harvested.																																														
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16	4131 - Aspen, Oak	Sapling Well	14.2	15	1-50	N/A	2020: shift canopy call to younger age. Good aspen regen in most areas.																																																						
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17	4130 - Aspen	Poletimber Well	5.0	48	81-110	N/A	2020: Small area of aspen left from last harvest. Could be harvested or left to put on volume. Could leave well formed oak and pine if harvested.																																																						
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18	4124 - Red with White Oak	Sawtimber Medium	60.3	101	1-50	N/A	2021FMD: Lower stocked oak. Mixed oak sizes. Open areas with little regeneration but some areas with oak regen getting past browse height. Red maple sprouts and sapling from seed. Average quality oak. A few aspen clones regenerated. A few natural red pine saplings growing well. TS# 6106705 Cut all marked oak and aspen/rm. Closed 11.07 2011FMD: small oak log stand after thinning. A little wp scattered around. Red maple sprouting and getting browsed.																																																						
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19	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified		Plugged 11/2013. Not known if reclamation is needed or completed.																																																						
20	4124 - Red with White Oak	Sawtimber Medium	19.8	101	51-80	N/A	.2020: Lower density oak log trees. Formation of new age class after last harvest has been largely unsuccessful. Some rm sprouts and a limited amount of aspen. Light oak seedlings in understory still getting browsed. Canopy was reduced in last harvest to a level that should allow for oak establishment in understory over time. Let stand develop.																																																						
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21	4123 - Red Oak	Sawtimber Well	15.1	96	81-110	N/A	2020: species other than red oak were harvested in this stand. Little oak regeneration forming. Red Maple sprouts and seedlings and pockets of hazel formed after last harvest. May want to reduce canopy closure to encourage oak regeneration.			
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						Black Cherry		Medium	5 - 10 feet	Sapling
						Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub
22	4122 - Oak, Pine	Sawtimber Well	22.2	96	81-110	N/A		2021FMD: Mixed Stocking and diameters. Average Oak. White pine saplings in understory and wp seedling developing in gaps. Pockets of aspen regen 20-30' tall. Let stand develop. 2003fmd; O4O8A4M4 Cut under contract # 61-079-05-01. Sale completed August 2006. Cut all aspen rm, bc-no oak or pine2011FMD: Cut out aspen and red maple in last sale. This area is heavir to pine ans is a new stand split off from PI stand 16. All was cut together but the other part is heavier to oak. Let stand grow in after last harvest and look at next entry period.		
<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>
Red Oak		40	Log	16	96	Red Maple	Medium		10 - 20 feet	Sapling
White Oak		20	Log	14		White Pine	High		Variable	Sapling
White Pine		25	Log	14	96	Red Pine	Low		5 - 10 feet	Sapling
Red Pine		10	Log	14	96	Bigtooth Aspen	Low		>20 feet	Sapling
Red Maple		5	Pole	9						
23	330 - Low-Density Trees	Nonstocked	3.5				No			
24	320 - Upland Shrub	Nonstocked	1.8		Unspecified		No			
25	4124 - Red with White Oak	Sawtimber Medium	18.1	99	1-50	N/A	2020: Good understory formation in areas of red maple, oak, white pine, aspen. Consider shifting canopy call to seconded age in next inventory cycle.			
<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 Oak		50	Log	16	99	Red Maple		Medium	10 - 20 feet	Sapling
White Oak		35	Log	14		Bigtooth Aspen		Low	10 - 20 feet	Sapling
White Pine		10	Log/Pole	11		White Pine		Low	5 - 10 feet	Sapling
Red Pine		5	Log	13		Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub
						Oak (spp.)		Medium	5 - 10 feet	Sapling
26	4131 - Aspen, Oak	Poletimber Well	44.6	48	111-140	N/A	2020: Portions of south half of stand have more species diversity with oak, pine, maple, aspen. North half and areas in south half are heavy to aspen. Most of this stand could be harvested or left to put on volume. May want to focus on north part for harvest at this time as southern half is much more mixed composition. Oak is average quality. Bike trails through stand.			
<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		20	Pole	8		Red Maple		Low	5 - 10 feet	Sapling
Red Oak		15	Log/Pole	12	48	White Pine		Low	10 - 20 feet	Sapling
White Oak		5	Pole/Log	9		Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub
Bigtooth Aspen		55	Pole	8	48	Red Oak		Low	5 - 10 feet	Sapling
Red Pine		5	Log	14		White Oak		Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>27</b>	4124 - Red with White Oak	Sawtimber Medium	70.5	103	1-50	N/A	2021FMD: Lower density oak log stand with decent regen under. Good bit of rm saplings 10-20 ft. and areas with oak regen 5-10 ft. Aspen clones that were left last treatment have grown into A6. 2003FMD: O8 T.S. # 10-95. Scattered pockets of A3 within stand Cut aspen, mixed hardwood, trace of jp and orange marked oak 12/99 completion 2011FMD: Lowly stocked oak overstory left after last cut along with a few scattered red pine. Pockets of BA SAP/POLE SIZED (aged 32 estimate) scattered around. Not much oak or aspen regen at this time. RM regen is thicker in places, thin in others. Some jackpine saplings on the east side.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		48	Log	16	103	Red Maple		High	10 - 20 feet	Sapling	
White Oak		40	Log	14	103	Bigtooth Aspen		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		10	Pole	6	42	Jack Pine		Low	< 5 feet	Sapling	
Red Pine		2	Log	13		Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub	
						Red Oak		Medium	5 - 10 feet	Sapling	
<b>28</b>	330 - Low-Density Trees	Nonstocked	2.1		Unspecified	No					
<b>29</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	31.1	12	Immature	N/A	2020: TS054-07. TCR 2010. Good regeneration after harvest. Mix of oak, aspen,rm, bc saplings. Low density oak/pine retention from last harvest. 2011: Recent harvest with retention. Should return to forested stand by next inventory.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		10	Sapling	1	12	Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub	
Red Maple		35	Sapling	1	12	White Pine		Low	5 - 10 feet	Sapling	
White Oak		10	Sapling	1	12						
Bigtooth Aspen		25	Sapling	1	12						
Black Cherry		20	Sapling	1	12						
<b>30</b>	42200 - Natural White Pine	Sawtimber Well	13.0	76	111-140	N/A	2020: Decent WP. Natural look but may have been planted as part of Wheeler Pines? Oak and aspen on edges. Could be thinned if nearby. Small stand. Mixed WP sizes.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		5	Log	13		Red Maple		Low	10 - 20 feet	Sapling	
White Oak		5	Log/Pole	12		White Pine		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		5	Log/Pole	12		Black Cherry		Low	5 - 10 feet	Sapling	
White Pine		80	Log	13	76						
Red Pine		5	Log	13							
<b>31</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.1	95	111-140	N/A	2020: Stand follows drain and slopes in pine complex. Some slopes are heavier to aspen. Could harvest parts of this if working nearby.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		17	Log/Pole	10		Red Maple		Low	5 - 10 feet	Sapling	
Red Oak		13	Log/Pole	12		White Pine		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		30	Log	12	95						
White Pine		30	Log/Pole/XLog	12	76						
Red Pine		10	Log/Pole	12	116						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	11.5	116	81-110	N/A	2020: Has been thinned in past. Good bit of wp understory in places. Stocking is fine at this time. Let stand develop. Could be managed for older pine. Mixed ages of pine.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	10	Pole	8		
		Red Oak	5	Log	16		
		White Oak	5	Log	16		
		Bigtooth Aspen	12	Log	12		
		White Pine	50	XLog/Log	18	116	
		Red Pine	18	Log/Pole/XLog	16	116	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	Low	5 - 10 feet	Sapling		
		White Pine	Medium	Variable	Sapling		
33	4139 - Aspen, Mixed Deciduous	Sapling Medium	44.1	13	1-50	N/A	2020: Scattered residual oak/pine/maple from last harvest. Good regeneration and growth after harvest. Pockets of wp poles left from last harvest. Wp seedlings filling understory gaps.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	15	Sapling	2	13	
		Red Oak	5	Sapling	2	13	
		White Oak	5	Sapling	2	13	
		Bigtooth Aspen	55	Sapling	2	13	
		White Pine	15	Sapling	4	20	
		Black Cherry	5	Sapling	2	13	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		White Pine	Medium	5 - 10 feet	Sapling		
34	3303 - Mixed Low Density Trees	Nonstocked	5.2			No	2020: Low density trees
35	4199 - Other Mixed Upland Deciduous	Sawtimber Well	37.9	99	81-110	N/A	
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	15	Pole	9		
		Red Oak	25	Log	14	99	
		White Oak	15	Log	14		
		Bigtooth Aspen	25	Log	13	76	
		White Pine	10	Log/Pole	13	99	
		Quaking Aspen	10	Pole	9		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	Low	5 - 10 feet	Sapling		
		White Pine	Low	5 - 10 feet	Sapling		
		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub		
		Red Oak	Low	5 - 10 feet	Sapling		
		White Oak	Low	5 - 10 feet	Sapling		
36	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified		plugged 11/2013. not known if reclamation attempted or completed.
37	4130 - Aspen	Sapling Well	13.3	25	Immature	N/A	2020: Good aspen regen and growth.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	20	Sapling	4	25	
		Red Oak	5	Sapling	3	25	
		White Oak	5	Sapling	4	25	
		Bigtooth Aspen	65	Sapling	4	25	
		White Pine	5	Sapling	3		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>38</b>	4310 - Pine, Oak Mix	Poletimber Poor	19.4	55	1-50	N/A	2020: Stand is continuing to fill in. Mix of open and forested.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		4	Pole	6		Jack Pine	
Red Oak		10	Log/Pole	11		Northern Pin Oak	
White Oak		5	Pole/Sapling	5		Red Oak	
Quaking Aspen		10	Pole	6		White Oak	
Bigtooth Aspen		5	Pole	6		Bigtooth Aspen	
Northern Pin Oak		10	Pole	8		White Pine	
White Pine		5	Log/Pole	10	55		
Jack Pine		40	Pole	8	55		
Black Cherry		10	Pole	8	55		
Red Pine		1	Log	12			
<b>39</b>	4124 - Red with White Oak	Sawtimber Well	31.2	103	51-80	N/A	2020: Little oak understory forming. Red maple sprouts and seedlings. Some rm sprouts getting past browse height. Everything else is heavily browsed at this time. TS# 076-13. Harvested 8/2015. Cut all orange marked and all red maple/aspens 2" dbh+. Some green marked rm for retention.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		49	Log	13	103	Red Maple	
White Oak		40	Log	12	103	White Pine	
White Pine		5	Pole	8		Red Pine	
Red Pine		5	Log/Pole	10		Red Oak	
Red Maple		1	Log/Pole	10		White Oak	
						Bigtooth Aspen	
<b>40</b>	4124 - Red with White Oak	Sawtimber Well	40.0	104	111-140	N/A	2020: Lower quality oak with wp poles and saplings. Stand seems better suited for pine. South part of stand was treated 2020 (thinned back to better quality oak). Watch to see how this stand regenerates. This stand could have a similar treatment or reduce to scattered oak over-story with hopes that pine forms new age class. There is a good flat area that could be cut and planted to red pine but there is considerable wp understory in places at this time.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		13	Pole/Sapling	7		Red Maple	
Red Oak		40	Log	14	104	White Pine	
White Oak		35	Log	13	104		
Bigtooth Aspen		5	Log	12			
White Pine		7	Pole/Log	8			
<b>41</b>	310 - Herbaceous Openland	Nonstocked	2.2		Unspecified		Well plugged 4/2003. Unknown if reclamation is needed or attempted.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**42** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 5.6 101 141-170 N/A 2020: Pine,oak,aspen on slopes and drain. Factor Limited slope and riparian concerns.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Red Oak	20	Log	14	
Paper Birch	2	Pole	9	
Bigtooth Aspen	30	Log	13	88
White Pine	30	Log	14	101
Red Pine	5	Log/Pole	12	
Hemlock	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling

**43** 4132 - Aspen, Jack Pine Poletimber Well 36.5 32 51-80 N/A 2020: Lower quality and density Quaking aspen and JP with oak and cherry. Let stand grow in.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	10	Pole/Sapling	6	32
White Oak	10	Pole	6	32
Quaking Aspen	50	Pole/Sapling	5	32
Red Pine	2	Sapling/Pole	4	31
Jack Pine	23	Pole/Sapling	6	
Black Cherry	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	5 - 10 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling

**44** 4310 - Pine, Oak Mix Sawtimber Well 27.9 118 81-110 N/A 2020: Nice red oak and red maple with pine. Pine looks healthy. Most is manageable but some steep areas. Has been thinned in past. A little beech and sugar maple. Look at next entry.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	15	Log	16	
White Oak	5	Log	14	
White Pine	50	Log/Pole/XLog	16	118
Red Pine	5	Log	14	118
Bigtooth Aspen	5	Log	14	
Red Maple	20	Log/Pole	10	

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

**45** 42200 - Natural White Pine Sawtimber Medium 5.4 88 51-80 N/A 2020: Good aspen regen and growth under pine. May call in canopy next inventory.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	60	Log	12	88
Red Pine	40	Log/Pole	12	88

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Aspen (spp.)	High	>20 feet	Sapling

**46** 330 - Low-Density Trees Nonstocked 7.2 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 14.1 26 51-80 N/A 2020: Patchy aspen/rm/wp/oak mix. Let stand develop.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling	4		White Pine	Low	5 - 10 feet	Seeding
Red Oak	5	Pole	6	26	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Oak	5	Sapling	4					
Bigtooth Aspen	35	Pole	5	26				
White Pine	30	Pole	6	26				

**48** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 26.5 94 51-80 N/A 2020: Patchy Jack Pine with G type mixed in. Some jp left but in some areas the jp is falling out of stand. Red maple and pine oak understory growing through. Some of this stand could be harvested but portions are too steep. May be best to let stand convert.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Red Oak	5	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
White Oak	5	Log/Pole	12	103	Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Log/Pole	10	94	Northern Pin Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak	15	Log	14	103				
White Pine	5	Log/Pole	10					
Jack Pine	55	Log/Pole	11	94				

**49** 790 - Other Bare/Sparsely Vegetated Nonstocked 4.1 Unspecified Oil an gas facility

**50** 42290 - Natural Mixed Pine Sawtimber Well 15.7 101 141-170 N/A Nice stand. Let grow in as large pine. Slopes limit management opportunities. Nice area to camp between the lakes. Check it out!

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	6	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak	5	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	17	Log/Pole	12	88				
White Pine	45	Log/XLog	15	101				
Red Pine	25	Log/Pole	13	101				
Hemlock	2	Log	14					

**51** 4199 - Other Mixed Upland Deciduous Sawtimber Poor 87.1 102 1-50 N/A 2020: opening filling in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/XLog	14	102	Red Maple	Low	< 5 feet	Sapling
White Oak	15	Log/XLog	14	102	Quaking Aspen	Low	5 - 10 feet	Sapling
Quaking Aspen	20	Pole	5		White Pine	Low	5 - 10 feet	Sapling
Northern Pin Oak	30	Log	14	102	Jack Pine	Low	5 - 10 feet	Sapling
White Pine	5	Pole	8		Black Cherry	Medium	5 - 10 feet	Sapling
Jack Pine	5	Pole	8	32	Oak (spp.)	Low	< 5 feet	Sapling
Black Cherry	20	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	623 - Emergent Wetland	Nonstocked	3.6		Unspecified	No	Pothole lake that is nearly dry-seasonally wet.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	4131 - Aspen, Oak	Sawtimber Well	4.9	100	81-110	N/A	2020: Low quality oak mix with aspen clone in middle. Agree with 2011 comments.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8		Red Maple	Low	< 5 feet	Sapling
Red Oak	20	Log	14		White Pine	Low	5 - 10 feet	Sapling
White Oak	20	Log	14		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	40	Log	13	100				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	500 - Water	Nonstocked	3.0		Unspecified	No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	4126 - White, Black, N. Pin Oak	Sawtimber Well	5.4	102	81-110	N/A	2020: Low quality oak mix. JP falling out. Mixed oak log/poles. Leave stand for bedding/feeding area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole/XLog	14	102	White Pine	Low	10 - 20 feet	Sapling
White Oak	38	Log/XLog	14	102	Jack Pine	Low	< 5 feet	Sapling
Northern Pin Oak	20	Log/XLog/Pole	14	102	Black Cherry	Medium	5 - 10 feet	Sapling
White Pine	5	Log/Pole	11		Oak (spp.)	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole	8					
Black Cherry	5	Log/Pole	12					
Bigtooth Aspen	2	Pole	9					
Red Maple	10	Pole	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4126 - White, Black, N. Pin Oak	Sawtimber Well	5.1	99	111-140	N/A	2020: Small oak island. Keep for diversity. New hill climb. A5O4O7M4 HIGH POCKETS WITHIN LARGE G TYPE-NICE VISTAS. Harvest may cause excessive erosion A6

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	13	Pole	9		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	35	Log	14	99	White Pine	Low	Variable	Sapling
White Oak	30	Log	14	99	Red Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Log	13		White Oak	Low	5 - 10 feet	Sapling
Northern Pin Oak	15	Log	14					
White Pine	2	Pole	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
57	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified	No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	15.4	118	111-140	N/A	2020: Nices stand on steep slope.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	13		White Pine	Medium	5 - 10 feet	Sapling
White Oak	10	Log	12					
Bigtooth Aspen	10	Log	12	88				
White Pine	40	Log/Pole/XLog	14	118				
Red Pine	30	Log/Pole/XLog	13	118				

60	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified		Plugged 11/2013. not known if reclamation attempted or completed.
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61	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	36.6	5	Immature	N/A	2020: Oak and cherry competition for planted pine Could do a pre-commercial release thinning. Trenched 2015. Initial plant 2016. Re-planted 2018. Survey of replant done on 10/24/2018; replanted red pine bring TPA up to acceptable level, some mortality but would not recommend any supplemental planting however spraying to lessen oak competition is needed to ensure success of red pine plantation stocking.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	35	Sapling	1	5
White Oak	5	Sapling	1	5
Red Pine	35	Sapling	1	5
Jack Pine	5	Sapling	1	5

62	4124 - Red with White Oak	Sawtimber Well	75.6	112	51-80	N/A	2020: Some oak sapling and seedlings making it past browse level. Let stand grow in and understory develop. Oak should continue to fill in under. Small aspen clones sprouted from last harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	8		Red Maple	Medium	>20 feet	Sapling
Red Oak	50	Log/Pole	12	112	Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Oak	40	Log/Pole	11	112	White Pine	Medium	Variable	Sapling
White Pine	5	Pole	8		Red Pine	Low	5 - 10 feet	Sapling
Red Pine	2	Pole	8		Red Oak	Medium	5 - 10 feet	Sapling
					White Oak	Medium	5 - 10 feet	Sapling

63	4124 - Red with White Oak	Sawtimber Medium	64.2	100	51-80	N/A	2020: Some oak regen getting past browse level. Good aspen regen in places but patchy. Some rp seedlings. Low quality oak in overstory but the most poor was removed in last harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	54	Log	13	100	Red Maple	Medium	>20 feet	Sapling
White Oak	40	Log/Pole	12	100	Bigtooth Aspen	Medium	>20 feet	Sapling
White Pine	5	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Red Pine	1	Pole	8		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
					Black Cherry	Low	5 - 10 feet	Sapling
					Red Oak	Low	5 - 10 feet	Sapling
					White Oak	Low	5 - 10 feet	Sapling
					Red Pine	Low	< 5 feet	Seeding

64	330 - Low-Density Trees	Nonstocked	2.8		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65	330 - Low-Density Trees	Nonstocked	7.0			No	2020: semi open area with oak, cherry maple, pine.
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66	4124 - Red with White Oak	Sawtimber Well	11.7	112	51-80	N/A	2020: Low quality oak logs and poles. Some pockets of oak regen but most understory is rm which is heavy in places. Not enough value to thin. Stand is going to red maple. Canopy could be reduced a lot but would just damage developing red maple understory. Let stand develop.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	8	
Red Oak	70	Log	12	112
White Oak	26	Log/Pole	11	
White Pine	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Pine	Low	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Red Oak	Low	5 - 10 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling

67	4199 - Other Mixed Upland Deciduous	Sapling Well	8.6	32	51-80	N/A	2020: Let stand grow in
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	4	
Red Oak	25	Sapling	4	
White Oak	25	Sapling	4	32
Bigtooth Aspen	35	Sapling	4	32
Black Cherry	5	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	5 - 10 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling

68	4126 - White, Black, N. Pin Oak	Sawtimber Well	18.7	107	51-80	N/A	2020: Some oak and red maple salplings filling in under. TS# 019-13. Harvested 10/2014. Marked thinning, Cut orange marked and all aspen/jp.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Red Oak	20	Log/Pole	10	107
White Oak	40	Log/Pole	10	107
Northern Pin Oak	30	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Red Oak	Low	5 - 10 feet	Sapling
White Oak	Medium	5 - 10 feet	Sapling
Northern Pin Oak	Medium	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling

69	4130 - Aspen	Sapling Well	3.2	32	Immature	N/A	2020 Good growth on aspen clone
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	4	32
Northern Pin Oak	5	Sapling	3	
White Oak	5	Sapling	3	32
Bigtooth Aspen	80	Sapling	4	32
Black Cherry	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	5 - 10 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>70</b>	4122 - Oak, Pine	Sawtimber Poor	9.4	83	1-50	N/A	2020: Seed tree type retention from last harvest. Good oak regeneration in the west lobe. Looks like most is pin oak. Let stand develop. TS# 019-13. Cut merchantable. Green marked retention. Harvested 10/2014																																																	
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<b>71</b>	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No																																																		
<b>72</b>	310 - Herbaceous Openland	Nonstocked	2.5	0	Unspecified		.Well site Plugged 10/2011. not known if reclamation attempted or completed.																																																	
<b>73</b>	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No																																																		
<b>74</b>	4124 - Red with White Oak	Sawtimber Well	99.5	104	81-110	N/A	2020: White pine seedlings still filling in gaps. Canopy stocking is variable. Oak is generally lower quality. Could reduce canopy closure to release understory white pine. Stand moving toward wp. Keep pine and better formed oak. Shortwood harvest.																																																	
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<b>75</b>	4124 - Red with White Oak	Sawtimber Well	157.4	102	51-80	N/A	2020: Some seedlings forming in gaps bur not heavy. Let stand grow in. . Broomhead oak timber sale North part cut between 2007-2010. South part cut 2016-17. Cut all rm/aspen and marked oak. Removed most of the supressed poorly formed oak. Let stand develop. Red maple sprouts heavy in spots after treatment but getting browsed heavily.																																																	
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<b>76</b>	330 - Low-Density Trees	Nonstocked	1.2		Unspecified	No																																																		
<b>77</b>	122 - Road/Parking Lot	Nonstocked	23.0		Unspecified	No																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>78</b>	4131 - Aspen, Oak	Sawtimber Well	6.6	90	111-140	N/A	2020: Stand should be harvested but looks difficult with terrain and access.																																														
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<b>79</b>	500 - Water	Nonstocked	6.1		Unspecified	No	2020: small lake																																														
<b>80</b>	623 - Emergent Wetland	Nonstocked	6.0		Unspecified	No	2020: shoreline of small lake																																														
<b>81</b>	330 - Low-Density Trees	Nonstocked	2.6		Unspecified	No																																															
<b>82</b>	4130 - Aspen	Poletimber Well	62.3	34	51-80	N/A	2020: Patchy stand. Good growth. Could harvest a portion next entry. Let grow in at this time.																																														
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<b>83</b>	310 - Herbaceous Openland	Nonstocked	1.4		Unspecified	No																																															
<b>85</b>	4125 - Black, N. Pin Oak	Sapling Medium	22.0	13	Immature	N/A	2020: Good oak regeneration with some aspen, rm and a good bit of cherry. 2010: Scattered white pine and oak left after sale. Regenerating to aspen/oak/red maple. Heavy browsing.																																														
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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>86</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	67.2	31	51-80	N/A	2020: Good growth on red pine. Keeping up with JP. Patchy mix. Some aspen clones. Let stand develop. Not ready to thin.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	4	Sapling	3	
White Oak	3	Sapling	3	
Quaking Aspen	10	Sapling	4	31
Northern Pin Oak	3	Sapling	3	
White Pine	5	Pole	5	
Red Pine	40	Pole	5	31
Jack Pine	30	Pole	5	31
Black Cherry	5	Sapling	3	

<b>87</b>	4124 - Red with White Oak	Sawtimber Medium	36.7	102	51-80	N/A	2020: Red maple and oak sprouts and seedlings developing under canopy. Not a lot of new wp seedlings yet. Let stand develop. TS# 039-13. Harvested 12/2016. Orange marked thinning and cut all aspen
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	7		White Pine	Low	5 - 10 feet	Sapling
Red Oak	45	Log/Pole	11	102	Red Oak	Medium	< 5 feet	Seeding
White Oak	40	Log/Pole	11	102	White Oak	Medium	< 5 feet	Seeding
Red Pine	5	Pole	9		Bigtooth Aspen	Low	5 - 10 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling

<b>88</b>	42290 - Natural Mixed Pine	Sawtimber Poor	22.7	65	51-80	N/A	2020: Decent aspen regeneration in most areas after harvest. Some areas are getting browsed heavily but most past browse level. TS# 037-13. Harvested fall 2015. Cut to 2" but no red or white pine or green marked oak/rm.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Sapling	7		White Pine	Low	5 - 10 feet	Sapling
Red Oak	10	Log/Pole	12		Black Cherry	Low	5 - 10 feet	Sapling
White Oak	15	Log/Pole	12		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	2	Log/Pole	10	65	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
White Pine	59	Log/Pole	10	65	Red Oak	Low	< 5 feet	Sapling
Red Pine	10	Pole/Log	8		White Oak	Low	< 5 feet	Sapling
Jack Pine	2	Pole	8					

<b>89</b>	623 - Emergent Wetland	Nonstocked	6.5		Unspecified	No	2021: wet edge of small lake
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<b>90</b>	500 - Water	Nonstocked	4.5		Unspecified	No	small lake
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
91	4310 - Pine, Oak Mix	Sapling Poor	36.4	5	Immature	N/A	2020: Moved stand canopy call to new stand formed by harvest /planting. Residual oak and pine left from last harvest. Dropped herbicide treatment. Decent growth on red pine seedlings. Should develop into nice mixed stand. Stand may benefit from pre-commercial thinning. 2018: Regen survey showed good pine survival but competition from oak, maple, aspen in parts of stand. Recommend skidder release spray to set back some of the woody competition. Some oak survival wood be acceptable. TS# 077-13. Cut to 2" Green marked retention. Harvested 1/2016. Trenched 2016. Planted red pine spring 2017.			
Canopy Species	% Cover	Size Class	DBH	Age						
Red Maple	20	Sapling	1	5						
Red Oak	10	Sapling	1	5						
White Oak	15	Sapling	1	5						
White Pine	5	Sapling	1							
Red Pine	45	Sapling	1	5						
Bigtooth Aspen	5	Sapling	1	5						
92	4199 - Other Mixed Upland Deciduous	Poletimber Well	25.3	34	51-80	N/A	2020: Complicated stand is densely stocked. Canopy consists of retention from last harvest (1987) and stump sprouts from that harvest that have grown into canopy. In addition there are a lot of saplings and seedlings in understory that have developed in the years since the last harvest. Let stand develop.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Maple	20	Pole	6	34	White Pine	Low		5 - 10 feet	Sapling	
Red Oak	25	Pole	6	34	Red Pine	Low		5 - 10 feet	Sapling	
White Oak	20	Pole	6	34	Northern Pin Oak	Medium		5 - 10 feet	Sapling	
Bigtooth Aspen	3	Pole	6	34	Red Oak	Low		5 - 10 feet	Sapling	
White Pine	10	Log/Pole	12	80	White Oak	Medium		5 - 10 feet	Sapling	
Red Pine	5	Log/Pole	12	80	Red Maple	Low		5 - 10 feet	Sapling	
Jack Pine	2	Pole	5							
Black Cherry	15	Sapling/Pole	4							
93	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	26.8	51	51-80	N/A		2020: Mixed sizes and species. Good bit of older pine and oak left from last harvest with new ages grown through. Generally oak/pine with rm/aspens/cherry. White pine poles are thinning out. Most oak is average or lower quality. Pine may be best future choice but not fully stocked in pine. May be able to thin next entry. Allow stand to develop naturally at this time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Red Maple	15	Pole/Sapling	5	51	Red Maple	Low			5 - 10 feet	Sapling
Red Oak	15	Pole/Sapling	6		White Pine	Low			5 - 10 feet	Sapling
White Oak	20	Pole/Sapling	6	51	Black Cherry	Low	5 - 10 feet		Sapling	
Bigtooth Aspen	10	Pole	6		Red Oak	Low	5 - 10 feet		Sapling	
White Pine	35	Pole/Sapling	6	51	White Oak	Low	5 - 10 feet		Sapling	
Red Pine	2	Log/Pole	10							
94	330 - Low-Density Trees	Nonstocked	2.2		Unspecified	No				
95	4126 - White, Black, N. Pin Oak	Poletimber Well	27.0	51	81-110	N/A	2020: Low quality oak from sprouts. Not enough quality to merit thinning. Stocking is not too high. Let stand grow in or could clear cut and plant to red pine. Ground lays good.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Maple	20	Pole/Sapling	7		White Pine	Low		10 - 20 feet	Sapling	
Red Oak	20	Pole/Sapling	7		Red Oak	Low		< 5 feet	Sapling	
White Oak	40	Pole/Sapling	7	51	White Oak	Low		< 5 feet	Sapling	
White Pine	15	Log/Pole	10							
Black Cherry	2	Pole/Sapling	7							
Bigtooth Aspen	3	Log/Pole	10	51						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>96</b>	4124 - Red with White Oak	Sawtimber Well	18.8	96	81-110	N/A	2020: Variable stocking. Areas with lower stocking and heavier aspen/rm understory. Average oak quality. Variable oak diameters. Red Maple sprouts and seedlings and pockets of hazel formed after last harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	50	Log	14	96	Red Maple	Low	10 - 20 feet	Sapling
White Oak	30	Log/Pole	12		White Pine	Low	10 - 20 feet	Sapling
White Pine	10	Log/Pole	11		Red Pine	Low	5 - 10 feet	Sapling
Red Pine	2	Log/Pole	12	96	Bigtooth Aspen	Medium	>20 feet	Sapling
Red Maple	5	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	3	Log	14		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub

<b>97</b>	4124 - Red with White Oak	Sawtimber Medium	52.3	99	51-80	N/A	2020: Stand looks good after thinning. Good oak seedlings and saplings in areas. RM/aspen sprouts. Decent quality mixed stand. TS# 005-13. harvest 9/2015. Marked for crop tree release. Cut all rm/aspen.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	45	Log/Pole	12	99	Red Maple	Low	5 - 10 feet	Sapling
White Oak	40	Log/Pole	12	99	White Pine	Medium	5 - 10 feet	Sapling
White Pine	5	Log/Pole	10		Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	10	Log/Pole	12		Red Oak	Medium	< 5 feet	Seeding
					White Oak	Medium	< 5 feet	Seeding

<b>98</b>	4131 - Aspen, Oak	Poletimber Well	19.1	34	51-80	N/A	2020: Decent aspen/oak/pine mix. Let stand put on volume and allow stand to north to develop before harvesting this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5	34	Black Cherry	Low	5 - 10 feet	Sapling
Red Oak	5	Pole	6	34	Red Oak	Low	5 - 10 feet	Sapling
White Oak	15	Pole	6		White Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	65	Pole	6	34				
White Pine	2	Log/Pole	11					
Red Pine	8	Log/Pole	11					

<b>99</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	26.2	51	51-80	N/A	2020: White oak poles with aspen and red maple. Not a lot of quality and stocking is not high. Aspen is patchy. Some areas heavier to white oak and red maple. Some older trees scattered around-retention from last harvest. Let stand develop.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	19	Pole/Sapling	7	51	Red Maple	Low	< 5 feet	Sapling
Red Oak	10	Pole/Log	9	51	White Pine	Low	5 - 10 feet	Sapling
White Oak	35	Pole	6	51	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	30	Pole	8	51	Red Oak	Low	< 5 feet	Sapling
White Pine	5	Log/Pole	12		White Oak	Low	< 5 feet	Sapling
Red Pine	1	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**100**      4129 - Mixed Oak      Sawtimber Well      22.7      102      81-110      N/A      2021: Let stand grow in volume. Would make good red pine planting site in future. Not much understory at this time.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sapling	8		Red Maple	Low	10 - 20 feet	Sapling
Red Oak	35	Log/Pole	12	102	White Pine	Low	10 - 20 feet	Sapling
White Oak	25	Log/Pole	12					
Bigtooth Aspen	5	Log/Pole	10	90				
White Pine	10	Log/Pole	12	90				
Red Pine	10	Log/Pole	10	90				

**101**      4129 - Mixed Oak      Sawtimber Well      18.8      98      81-110      N/A      2020: Stand could possibly be thinned for crop tree release but would start red maple sprouts that would impede future options. On the edge of having enough quality to thin. Could let stand put on volume and consider harvest and plant next entry. Stocking is generally not too high at this time but it is variable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak	25	Log	13	98	White Pine	Low	5 - 10 feet	Sapling
White Oak	35	Log	12	98	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	2	Log	12		Red Oak	Low	5 - 10 feet	Sapling
Red Pine	22	Log/Pole	11	80	White Oak	Low	5 - 10 feet	Sapling
Jack Pine	1	Pole	8					
White Pine	5	Pole	8					

**102**      330 - Low-Density Trees      Nonstocked      1.9           Unspecified      No

**103**      4191 - Mixed Upland Deciduous with Conifer      Sawtimber Well      19.7      102      111-140      N/A      2020: Nice mixed stand. Mixed sizes. Could cut and plant this ridge next entry. Let nearby planted pine develop. Let this stand grow in for now. RP looks good. WP understory is variable. Could treat with stand 118 which is similar next entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		Red Maple	Low	< 5 feet	Sapling
Red Oak	30	Log/XLog/Pole	13	102	White Pine	High	10 - 20 feet	Sapling
White Oak	25	Log/XLog/Pole	13	102	Red Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	5	Log/Pole	10	93	Black Cherry	Low	< 5 feet	Sapling
White Pine	5	Log/XLog/Pole	14		Oak (spp.)	Low	Variable	Sapling

**104**      4129 - Mixed Oak      Sawtimber Well      8.8      102      81-110      N/A      2020: Some oak seedlings forming in patches. Let stand grow in. Has been thinned and stocking is not too high at this time.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Pole	9		White Pine	Low	5 - 10 feet	Sapling
Red Oak	30	Log/Pole	12	102	Red Oak	Low	< 5 feet	Seeding
White Oak	38	Log/Pole	11	102	White Oak	Low	< 5 feet	Seeding
Bigtooth Aspen	2	Log	12					
Red Pine	15	Log/Pole	12	80				
Jack Pine	2	Pole	8					
White Pine	5	Log/Pole	10					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>105</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.6	98	81-110	N/A	2020: WP understory badly bent by heavy snow. May not recover. Aspen is falling out of stand. Not enough quality to thin. Thinning would create rm regen in understory which may impede future management options. Let stand grow in and put on volume. Red pine looks good and should show continued growth and volume gains.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	8	
Red Oak	20	Log/Pole	13	98
White Oak	30	Log/Pole	13	98
Bigtooth Aspen	10	Log/Pole	11	93

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

<b>106</b>	4122 - Oak, Pine	Sawtimber Poor	8.7	98	1-50	N/A	2020: Good aspen regen in most of the stand. Some rm sprouts past browse size. Oak seedlings getting browsed heavily. TS# 006-13. Harvested 9/2015. Cut merchantable but no red or white pine 6" of less. Green marked retention of oak, maple, pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log/Pole	10	
Red Oak	30	Log	14	98
White Oak	33	Log/Pole	12	98
Red Pine	25	Log/Pole	10	93
White Pine	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	High	5 - 10 feet	Sapling
Red Oak	Low	< 5 feet	Seeding
White Oak	Low	< 5 feet	Seeding

<b>107</b>	4129 - Mixed Oak	Sawtimber Well	18.0	102	111-140	N/A	2020: Some decent formed oak and pine but most is lower quality. Some oak understory but not a lot. Some XL red oak. White pine undertory is bent by heavy snow. Could clearcut and plant red pine. Red pine in stand with good crowns grew well. Would be a good place to manage as mixed stand with planted pine. Could reduce Basal area to 40 and let understory develop. Keep better formed oak and pine...just not a lot to work with here.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	9	
Red Oak	35	Log	13	102
White Oak	35	Log	13	102
Bigtooth Aspen	2	Log	12	
White Pine	5	Log	14	93
Red Pine	13	Log	12	93

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling
Black Cherry	Low	< 5 feet	Sapling
Oak (spp.)	Low	< 5 feet	Sapling

<b>108</b>	42110 - Planted Red Pine	Sawtimber Medium	30.3	84	51-80	N/A	2020: Heavy oak understory with some rm. Consider cutting most red pine and poor formed oak to release understory. Would be best to follow with hot burn to re-start oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Log	13	102
White Oak	7	Log	12	
White Pine	8	Log/Pole	10	
Red Pine	75	Log	12	84

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Log
Jack Pine	Low	5 - 10 feet	Sapling
Aspen (spp.)	Low	10 - 20 feet	Sapling
Red Oak	High	5 - 10 feet	Sapling
White Oak	High	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**109** 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 107.3 84 81-110 N/A 2020: Stocking is variable. Most areas not overstocked. Considerable red maple, oak, aspen understory. Considering either letting stand put on more volume or removing most red pine to release new stand. Not certain about how to let this stand convert successfully. Harvest and hot burn would likely be most successful

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole	8	
Red Oak	10	Log/Pole	12	108
White Oak	8	Log/Pole	12	108
Red Pine	70	Log	11	84
Jack Pine	2	Pole	9	
White Pine	5	Log	12	

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

**110** 4131 - Aspen, Oak Poletimber Well 17.8 51 51-80 N/A 2020: Scattered older oak and pine with 50 year class called as dominant age. Aspen is patchy and unhealthy looking. Good bit of canker. Moderate stocking. Some decent formed oak and pine could be left for retention. Stand could also be left to put on volume and harvested next entry. 2011: May be same as stand to north

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Red Oak	20	Pole/Log	8	
White Oak	20	Pole/Log	8	
Bigtooth Aspen	40	Pole	8	51
White Pine	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Red Oak	Low	5 - 10 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling

**111** 4129 - Mixed Oak Sawtimber Well 12.0 102 81-110 N/A 2020: Mixed oak sizes with pine maple aspen. Lower quality oak but pine looks alright. Stocking is variable but generally alright. May be good to leave this as oak pocket surrounded by pine plantation. 2003FMD: O8 Was prescribed for final harvest in 1985 but did not seem to get done. 2011 FMD: Split off south part of stand which is mainly oak. This stand has planted pine from 1930 with oak/aspen/rm. Some large crowned oak and pine that everything else grew through. Could reduce ba if in area and manage as mixed stand. WP will come in under.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Red Oak	35	Log	14	102
White Oak	25	Log	14	
Bigtooth Aspen	5	Log/Pole	10	
White Pine	5	Log/Pole	12	93
Red Pine	20	Log/Pole	12	93

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

**112** 42110 - Planted Red Pine Poletimber Well 60.1 34 81-110 N/A 2020: Good growth on red pine. Some rough frost affected areas. Not ready to thin. 50% crown ratio.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	4	Pole/Sapling	5	
White Oak	4	Pole/Sapling	5	
White Pine	10	Pole	8	34
Red Pine	63	Pole	6	34
Jack Pine	13	Pole	5	34
Black Cherry	2	Pole/Sapling	6	
Red Maple	4	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	5 - 10 feet	Sapling
Red Oak	Low	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
113	4122 - Oak, Pine	Sawtimber Well	13.3	102	51-80	N/A	2020: Stocking is variable but generally fine for now. Let stand put on some volume. Oak and maple seedlings and small saplings in understory along with taller saplings from sprouts after last harvest.			
<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 Oak		38	Log	13	102	Red Maple		Low	10 - 20 feet	Sapling
White Oak		25	Log	13	102	White Pine		Low	>20 feet	Pole
White Pine		10	Log/Pole	10	70	Red Pine		Low	>20 feet	Pole
Red Pine		25	Pole/Log	8	70	Red Oak		Medium	5 - 10 feet	Sapling
Red Maple		2	Pole	8		White Oak		Medium	5 - 10 feet	Sapling
114	4310 - Pine, Oak Mix	Poletimber Well	29.8	51	111-140	N/A	2020: RM and oak from sprouts after last harvest. Lower quality. Pine looks alright but not fully stocked in pine. older age oak and pine mixed through stand that was retention from last harvest. Age 51 rm and oak could put on volume if left but could cut to plant this stand to red pine. Dont see a lot of quality but it may look better with more growth. More aspen on north edge adjacent to stand with higher aspen content. May be best to let this stand put on more volume until next entry where it may be good to harvest and plant to red pine. Thinning at this time would create new age of rm sprouts.			
<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		11	Pole	6		Red Maple		Low	5 - 10 feet	Sapling
Red Oak		20	Pole/Log	8	51	White Pine		Low	5 - 10 feet	Sapling
White Oak		15	Pole	7	51	Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		10	Pole	7	51	Red Oak		Low	5 - 10 feet	Sapling
White Pine		40	Pole/Log	8	51	White Oak		Low	5 - 10 feet	Sapling
Red Pine		2	Log/Pole	11						
Jack Pine		2	Pole/Sapling	7						
115	4124 - Red with White Oak	Sawtimber Well	6.4	102	111-140	N/A	2020: Let stand grow in. Could use a light thinning if nearby but not enough volume to stand alone. Some pockets of younger aspen. Stocking is variable.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole	7		Red Maple		Low	5 - 10 feet	Sapling
Red Oak		40	Log/XLog/Pole	12		White Pine		Low	10 - 20 feet	Sapling
White Oak		40	Log/XLog/Pole	12	102	Red Oak		Low	< 5 feet	Seeding
Bigtooth Aspen		5	Log/Pole	10	46	White Oak		Low	< 5 feet	Seeding
White Pine		5	Pole	8						
116	4126 - White, Black, N. Pin Oak	Sawtimber Well	34.5	105	81-110	N/A	2020: Stocking is a little high. Could use a light thinning but not much volume. Best to let stand grow in and understory will continue to develop. Some red maple and oak salpings from sprouts after 1995 harvest but most understory is seedlings and salpings 5-10'.			
<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 Oak		35	Log	13		Red Maple		Medium	>20 feet	Sapling
White Oak		50	Log	12	105	White Pine		Low	10 - 20 feet	Sapling
White Pine		15	Log/Pole	10		Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub
						Red Oak		Medium	5 - 10 feet	Sapling
						White Oak	Medium	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>117</b>	4310 - Pine, Oak Mix	Sawtimber Well	11.9	75	111-140	N/A	2020: Variable diameters and stocking. WP is patchy with some thicker areas that could be thinned but not a lot of volume. May be able to work with stand to south. Cut aspen and most rm,bc. Orange mark for CTR. Okay if this is not thinned and just let to grow in.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole	8	
Red Oak	23	Log	13	
White Oak	17	Log	13	105
Bigtooth Aspen	5	Pole	8	
White Pine	45	Log/Pole	11	75
Red Pine	2	Log	14	
Jack Pine	2	Log	12	
Black Cherry	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Oak (spp.)	Low	< 5 feet	Sapling

<b>118</b>	4310 - Pine, Oak Mix	Sawtimber Well	27.9	93	111-140	N/A	2020: Looks like stand was thinned at some point. Consider cutting and planting next entry. Ground lays good. RP looks good. Let stand put on volume. Could treat with stand 103 next entry.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Red Oak	15	Log	14	102
White Oak	20	Log/Pole	12	
White Pine	10	Log/Pole	12	93
Red Pine	45	Log/Pole	11	93

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

<b>119</b>	4129 - Mixed Oak	Sawtimber Well	20.7	101	51-80	N/A	2020: Mixed oak,pine with red maple. Mixed oak sizes XL/L/P. Average quality and stocking is good at this time. Let stand grow in. Oak seedlings in patches getting browsed heavily. Areas with heavy rm salpings.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	9	
Red Oak	35	Log	14	101
White Oak	30	Log/Pole	13	101
Bigtooth Aspen	2	Log/Pole	12	91
White Pine	10	Log/Pole	10	91
Red Pine	18	Log/Pole	11	91

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Red Oak	Low	< 5 feet	Seeding
White Oak	Medium	< 5 feet	Seeding

<b>120</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	105.2	32	51-80	N/A	2020: Pine is doing fair outside of frost influence. Poor quality and survival in bowls and slopes. Not ready to thin yet. Square on SW is bushy jp and cherry with oak seedlings.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Sapling	2	
White Oak	5	Sapling	2	
Bigtooth Aspen	5	Sapling	4	
White Pine	10	Sapling	4	
Red Pine	55	Pole	6	32
Jack Pine	15	Pole	6	32
Black Cherry	5	Pole	5	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
121	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	6.8	11	Immature	N/A	2020: residual pine with saplings forming new stand. Moderate regeneration after harvest. Stand getting browsed heavily. Some red maple, oak and most cherry have grown past browse height. Stand should develop into jp,rm,oak mix. Timber sale that was completed in 2009. sprouts from red maple/cherry/oak and some wp seedlings. Red pine residual left. Should convert back to forested stand by next inventory.																																																						
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122	42290 - Natural Mixed Pine	Sawtimber Well	20.3	84	81-110	N/A	2020: Pine mix with oak. Some big older oak and pine scattered around. Small oak poles and oak saplings in understory and more wp under in south end. Mixed pine sizes and stocking is variable. Stocking is generally okay but may benefit from light thin. Red pine is getting large but not in all areas. Pine looks good. Some good white oak poles. Could be cut and planted. If thinned oak would likely advance in understory. Trying to go to oak in areas of stand. NC Trail through stand																																																						
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123	4122 - Oak, Pine	Sawtimber Poor	18.1	102	1-50	N/A	2020: Older low density oak and pine canopy with second age of oak, maple, pine, aspen from sprouts and seedlings after last harvest. Thick in areas. Nice aspen clone south of road. Would be desirable to have less overstory to allow second age to advance but there would not be much volume and understory would be damaged. . May want to let stand develop and consider this when aspen becomes merchantable.																																																						
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124	4124 - Red with White Oak	Sawtimber Well	25.7	102	51-80	N/A	2021: Oak stocking is variable. White pine poles growing through where oak stocking is lower. Thicker wp saplings in west part where oak stocking is higher. Could mark back to better formed trees and let wp understory advance. Some areas with oak seedlings and saplings. 2011: New stand added.																																																						
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125	330 - Low-Density Trees	Nonstocked	6.1		Unspecified	No																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>126</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.2	105	111-140	N/A	2020: Red pine is stagnant but may release. Release noted on adjacent stand after harvest. Some wp poles in canopy gaps. Some decent formed oak but most is low quality wolfy trees. Could cut out the large wolfy trees and retain decent formed oak and pine that can be saved. Aspen and red maple will form in understory and some oak may develop. Could cc and replant but would need herbicide to control rm and aspen. Aspen will likely regenerate well in patches in this stand. Should do something as aspen is declining and most oak is low quality. May be best to just cut it back to decent oak and pine and let it ride until new stand becomes merchantable.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log	12	
Red Oak	10	Log	16	
White Oak	25	Log	16	105
Bigtooth Aspen	15	Log	13	80
White Pine	10	Pole/Log	8	
Red Pine	15	Pole/Log	8	75

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling
White Oak	Medium	5 - 10 feet	Sapling
Northern Pin Oak	Low	5 - 10 feet	Sapling
Red Oak	Low	5 - 10 feet	Sapling

<b>127</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	22.3		Unspecified	No	Utility ROW
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<b>128</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.9	103	51-80	N/A	2020: Mix of oak, rm, wp logs and poles. Stocking is low and stand is poor quality. Heavy rm saplings under. Heavy browsing on seedlings and smaller saplings. Consider removing most overstory and letting stand go to rm. 2011: Older large crowned scattered oak with 65 yr old white pine, rm, aspen grown in. Heavy red maple sapling under. Pockets of stunted aspen falling out of stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	25	Log	15	
White Oak	25	Log	15	103
Quaking Aspen	5	Pole	9	
White Pine	20	Log	13	75
Jack Pine	2	Log/Pole	10	
Black Cherry	8	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
Red Oak	Low	< 5 feet	Seeding
White Oak	Low	< 5 feet	Seeding

<b>129</b>	4124 - Red with White Oak	Sawtimber Well	18.2	102	51-80	N/A	2020: Low quality oak logs with some small poles/sprouts from last harvest and saplings and seedlings getting browsed. Would be easy to harvest and plant to pine. Could leave oak strip along supply road.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	7	
Red Oak	45	Log/Pole	11	102
White Oak	35	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Sapling
Bigtooth Aspen	Low	>20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Red Oak	Low	>20 feet	Sapling
White Oak	Low	>20 feet	Sapling

<b>130</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	18.6	83	51-80	N/A	2020: Red pine looks good in stand but the oak is average. Stocking is generally fine. Don't see enough quality to merit thinning. Would be a good stand to cut and plant red pine after adjacent stand to east grows in.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	9	
Red Oak	20	Log	15	103
White Oak	25	Log	14	103
Bigtooth Aspen	5	Pole	8	
White Pine	10	Pole/Log	8	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
131	4126 - White, Black, N. Pin Oak	Sawtimber Well	15.5	93	81-110	N/A	2020: Mixed oak sizes with rm, aspen and a little wp/rp. Pin Oak is poor quality and falling out. Some decent white oak and rm poles. Aspen is declining. Could mark this stand with the goal of getting poor quality pin oak and declining aspen. Would likely regenerate to low quality oak with aspen clones. Could harvest and control sprouting with herbicide and plant to red pine after site prep. Dead standing oak through stand. NC Trail through north part of stand.																																																												
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133	4122 - Oak, Pine	Sawtimber Well	11.5	105	51-80	N/A	2020: Looks like red pine is not responding to release and is small diameters. Most oak is low quality and wolfy. Consider taking off most overstory but keep some better formed oak and the small pine to shelter. It could stay until new stand is ready for first thin or could take remaining overstory off earlier in necessary. Decent amount of oak and maple understory at this time. Could harvest and plant red pine with adjacent stand.																																																												
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134	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	75.0	84	81-110	N/A	2020: Variable stocking 60-130 ba. Oak and maple saplings/seedlings under red pine/oak canopy. This stand could be harvested and re-planted or if oak conversion is desired stand could be thinned. This would likely cause oak understory to further develop. Oak seedlings are generally evenly distributed through understory but getting browsed heavily. Red pine likely growing slowly at this point in the rotation.																																																												
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135	330 - Low-Density Trees	Nonstocked	12.9		Unspecified	No																																																													
136	790 - Other Bare/Sparsely Vegetated	Nonstocked	5.0		Unspecified	No	well pad																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>137</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	43.8	102	81-110	N/A	2020: Poor quality oak in spite of thinnings in past. Dead standing pin oak. Stocking is variable. Not enough crop trees to merit thinning. Some areas with oak seedlings getting browsed. Some decent formed oak poles and small logs. Most is white oak. Could cut and plant this. Could thin in hopes of developing robust oak reneen (although oak does not seem well suited here) could cut back to barrens look keeping well formed oak and pine. Could shelterwood/seed tree or could leave to grow in diameter. Barrens look would be nice here or planting with retention. Planting for mixed oak/pine stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		7	Pole/Sapling	7		Red Maple		Low	5 - 10 feet	Sapling	
Red Oak		23	Log/Pole	13		White Pine		Low	Variable	Sapling	
White Oak		40	Log/Pole	11	102	Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		5	Log	11	80	Northern Pin Oak		Low	< 5 feet	Seeding	
Northern Pin Oak		25	Log	12	102	White Oak		Low	< 5 feet	Seeding	
						Red Oak		Low	< 5 feet	Seeding	
						Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub	

<b>138</b>	330 - Low-Density Trees	Nonstocked	1.8		Unspecified	No	
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<b>139</b>	4131 - Aspen, Oak	Poletimber Well	18.6	31	1-50	N/A	2020: Patchy aspen with mixed density of residual oak,rm/pine retention from last treatment. Oak,rm,pine also in younger age. Let stand develop and grow into merchantability.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole	6		White Pine		Low	5 - 10 feet	Sapling	
Red Oak		10	Log/Pole	12		Northern Pin Oak		Low	< 5 feet	Sapling	
White Oak		10	Log/Pole	12	102	White Oak		Low	< 5 feet	Sapling	
Bigtooth Aspen		50	Pole	5	31	Red Maple		Low	5 - 10 feet	Sapling	
White Pine		10	Log/Pole	13	84						
Red Pine		5	Log/Pole	12							
Northern Pin Oak		5	Log	12							

<b>140</b>	330 - Low-Density Trees	Nonstocked	1.5		Unspecified	No	
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<b>141</b>	623 - Emergent Wetland	Nonstocked	2.7		Unspecified	No	
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<b>142</b>	4131 - Aspen, Oak	Sawtimber Well	19.0	75	111-140	N/A	2020: Aspen is declining. Stand should be harvested to regenerate. Green mark some pine and oak retention and harvest the rest. Retention area along lake riparian zone. Some areas are heavier to oak and could have heavier retention.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole	8		Red Maple		Low	5 - 10 feet	Sapling	
Red Oak		10	Log	11		White Pine		Low	5 - 10 feet	Sapling	
White Oak		10	Log/Pole	10		Northern Pin Oak		Low	< 5 feet	Sapling	
Bigtooth Aspen		55	Log	11	75	White Oak		Low	< 5 feet	Sapling	
Northern Pin Oak		10	Log/Pole	11	94						
White Pine		2	Log/Pole	10							
Red Pine		2	Pole/Log	9	75						
Jack Pine		1	Pole	8							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>143</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	63.7	102	111-140	N/A	2020: Stocking is variable. 80-140. Stand could benefit from light thinning. Mark all species. Some nice aspen regen pockets (age 24). Skip aspen areas when marking or create retention pockets.																																																	
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<b>144</b>	4310 - Pine, Oak Mix	Sawtimber Medium	121.2	90	1-50	N/A	2020: Good formation of understory. Fully stocked with oak from sprouts and seed, rm/cherry,wp, and planted red pine. Red pine seedling success is variable. Heavy early snow has laid a lot of them down. Growing well in areas but suppressed in some. Some thicker areas were not planted. 2018: Regen survey showed area brushy with oak, maple, cherry competition to planted pine. Accept stand as is. Red pine may survive in areas without competition adding diversity to stand. Stand is fully stocked with mixed pine and deciduous. Fall planted 2013. Red pine. Very small trees that struggled along the first few years. Fall 2018 most trees still alive. Covered by oak in oak thickets but dominant in less stocked areas.																																																	
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<b>145</b>	310 - Herbaceous Openland	Nonstocked	2.3		Unspecified	No																																																		
<b>146</b>	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No																																																		
<b>147</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	26.1	5	Immature	N/A	2021: Dropped herbicide release treatment. Consider pre-commercial thinning in future. 2020: Pine is keeping up with most oak. Oak is still getting browsed. Cherry and red maple getting ahead of pine. Would not be fully stocked just on the red pine if everything else was killed but oak may be serious competition in future. Currently has release spray treatment prescribed. May be better to let stand develop mixed and do a pre-commercial release in future if needed. Scattered oak and pine retention from last harvest. TS# 047-13. 9/2015. Trenched 2015. Planted red pine 2016. Regen survey 2017: 550 tpa rp. Trench quality was poor. Comment that site could be re-planted. Re-planted spring 2018 Surveyed 10/18. 25-30% seedling mortality. Recommend release herbicide application. Check seedling survival after herbicide application.																																																	
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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>148</b>	4310 - Pine, Oak Mix	Sawtimber Well	16.9	84	111-140	N/A	2020: Stocking is lower in the north part of stand. Some oak seedlings under but not heavy. Red pine released after last thinning but growth is slow. Red pine is good quality. Red maple stump sprouts 7"dbh scattered around. Patchy oak regen but it is getting browsed. Oak seedlings thick in spots and would need control if planted. Stand could be harvested and re-planted or held until adjacent harvest grows in more. Could thin canopy and allow oak understory to develop further. Could harvest and re-plant after site prep. Pine does look good on these sites and much is being lost to oak conversion.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	10	Pole	7			White Pine	Low	5 - 10 feet	Sapling
	Red Oak	10	Log	14			White Oak	Medium	< 5 feet	Sapling
	White Oak	18	Log	12	102		Northern Pin Oak	Low	< 5 feet	Sapling
	White Pine	2	Log	12						
	Red Pine	55	Log	12	84					
	Northern Pin Oak	5	Log	12						

<b>149</b>	4310 - Pine, Oak Mix	Sawtimber Poor	5.9	84	51-80	N/A	2020: Much of the jp has fallen out. Poor stocking and quality. Some wp, oak, rm. Light understory. Possible service project for a group to plant some trees in open areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Northern Pin Oak	15	Log	12			White Pine	Low	5 - 10 feet	Sapling
	White Oak	15	Pole	8			Northern Pin Oak	Low	5 - 10 feet	Sapling
	White Pine	20	Log	12			White Oak	Low	5 - 10 feet	Sapling
	Red Pine	2	Log	14			Jack Pine	Low	5 - 10 feet	Sapling
	Jack Pine	30	Log	13	84					
	Bigtooth Aspen	5	Log	12						
	Black Cherry	3	Pole	9						
	Red Maple	10	Pole	8						

<b>150</b>	4131 - Aspen, Oak	Sapling Well	17.8	25	Immature	N/A	2020: Good stocking in most areas and growth.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	10	Sapling	3			Red Maple	Medium	5 - 10 feet	Sapling
	Red Oak	10	Sapling	3			White Oak	Low	5 - 10 feet	Sapling
	White Oak	10	Sapling	3			Red Oak	Low	5 - 10 feet	Sapling
	Bigtooth Aspen	65	Sapling	4	25		Black Cherry	Low	5 - 10 feet	Sapling
	Black Cherry	5	Sapling	3						

<b>151</b>	330 - Low-Density Trees	Nonstocked	2.8		Immature	No				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Pine	5	Log/Pole	11			White Oak	Low	5 - 10 feet	Sapling
	Bigtooth Aspen	5	Pole/Sapling	5			Northern Pin Oak	Low	5 - 10 feet	Sapling
	Red Maple	25	Pole	8	40		White Pine	Low	5 - 10 feet	Sapling
	Jack Pine	5	Pole	6			Red Maple	Low	5 - 10 feet	Sapling
	Red Oak	25	Log/Pole	11	101		Black Cherry	Low	5 - 10 feet	Sapling
	White Oak	25	Log/Pole	11	101					
	Northern Pin Oak	10	Log	12						

<b>152</b>	623 - Emergent Wetland	Nonstocked	6.4		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**153** 500 - Water Nonstocked 3.5 Unspecified No

**154** 4126 - White, Black, N. Pin Oak Sawtimber Medium 26.0 102 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	8	
Red Oak	15	Log/Pole	11	102
White Oak	50	Log/Pole	10	102
Bigtooth Aspen	1	Log	11	
Northern Pin Oak	3	Log/Pole	11	102
White Pine	5	Log/Pole	10	
Red Pine	24	Pole	7	70

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Red Pine	Low	>20 feet	Sapling
Oak (spp.)	Low	5 - 10 feet	Sapling

2021: TS# 61-004-19. Harvested 2020. Orange marked thinning. Attempted to release planted rp through through release thinning. Watch to see if red pine responds. Some of the red pine had full crown position but much was suppressed.

**155** 4131 - Aspen, Oak Sawtimber Well 8.0 53 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
Red Oak	15	Log/Pole	10	
White Oak	35	Log/Pole	10	
Bigtooth Aspen	40	Log/Pole	10	53
White Pine	3	Log/Pole	12	
Red Pine	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling
Black Cherry	Low	10 - 20 feet	Sapling
Red Oak	Low	< 5 feet	Seeding
White Oak	Low	< 5 feet	Seeding

2020: Aspen is ready to harvest but patchy. Could cut aspen and mark the rest. Expland clones. Enough decent oak to mark where oak is more dense. Bring oak average diameter down. The rest should be fine until aspen is merchantable again.

**156** 4131 - Aspen, Oak Sawtimber Well 6.2 86 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	8	
Northern Pin Oak	10	Log	14	
White Oak	10	Log	12	
Bigtooth Aspen	53	Log	13	86
White Pine	5	Log/Pole	12	
Red Pine	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Hazelnut (Beaked)	Low	Variable	Tall Shrub
Oak (spp.)	Low	10 - 20 feet	Sapling

2020: Small stand with aspen/oak/maple logs along lake. Keep for diversity and budding cover with all the younger aspen surrounding.

**157** 4133 - Aspen, Mixed Pine Sapling Well 5.4 31 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
White Oak	20	Pole	8	
Bigtooth Aspen	45	Sapling/Pole	4	31
White Pine	20	Log/Pole	12	84
Jack Pine	5	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Northern Pin Oak	Medium	< 5 feet	Seeding
White Oak	Medium	< 5 feet	Seeding
Red Maple	Low	5 - 10 feet	Sapling

2020: Mixed diameters with a good bit of retention or oak/rm/wp from last sale which includes a couple age classes. Last harvest created third age class and sub-canopy has another age of saplings. Let stand develop until aspen matures. 2011: Part of timber sale with adjoining stand 55. More patchy aspen regen in this stand and more oak and pine retention.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
158	4126 - White, Black, N. Pin Oak	Sawtimber Well	11.2	105	51-80	N/A	2020: Low quality and stocking. Open grown oak mix. Patches of oak regen but a lot of open areas have not filled in. More oak understory forming under the red pine to the north. This could be left as a mature oak strip for diversity. Could also be cut and planted with adjacent stand. 2011:New stand added.																																																												
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159	4125 - Black, N. Pin Oak	Sapling Poor	29.5	20	Immature	N/A	2020: Some red pine and oak retention with new stand forming under that. Stand is trying to go to oak (most is pin oak) but getting browsed heavily. Some of the planted red pine surviving and some growing well. T.S. # 17-95 Spring 2000 understory plant to Red Pine -E 1/2 half of stand. Fall 2001 ran forestry disc in w 1/2 of stand for seed bed prep. 2011 FMD: Planted red pine is still present in stand. Seems to be distributed throughout stand-could not see difference from east to west. A little jp seeded in. Good oak regen throughout stand as well. Planted red pine is not very vigorous and only 2-3 ft tall where the over story is heavier. Looks decent where it is in openings. Could reduce or eliminate red pine to release understory. Keeping some would help oak develop but would create potential disease problems for red pine. TS# 049-13. TCR 11/15. Harvested most remaining over-story. Some red pine and oak retention.																																																												
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160	3301 - Low Density Deciduous Trees	Nonstocked	3.8		Unspecified	No																																																													
161	4130 - Aspen	Poletimber Well	33.8	31	1-50	N/A	2020: Good aspen stocking and growth through most of stand. Some scattered retention of oak and pine.																																																												
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162	4129 - Mixed Oak	Sawtimber Poor	17.0	101	1-50	N/A	2020: Movd stand to forested type. Older low density oak and pine with mix oka poles and saplings. Some frost pockets are still open but most has too much canopy for Non Forested stand.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**163** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 8.4 75 51-80 N/A 2020: Low stocked low quality stand. White pine is growing well but not forming in undertory or gaps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	7		White Pine	Low	5 - 10 feet	Sapling
Red Oak	10	Log	13		Jack Pine	Low	5 - 10 feet	Sapling
White Oak	15	Log	12		Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	10	Pole	7					
Northern Pin Oak	20	Log/Pole	12	102				
White Pine	25	Log/Pole	10	75				
Red Pine	5	Log/Pole	11					
Jack Pine	5	Pole	9	75				

**164** 330 - Low-Density Trees Nonstocked 1.3 Unspecified No

**165** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Poor 4.1 80 1-50 N/A 2020: Could be either forested or non-forested. On the edge. Not a lot of new ingrowth noted this entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole	8	80	Black Cherry	Low	5 - 10 feet	Sapling
Red Oak	20	Log	14		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Oak	20	Log	14		Oak (spp.)	Low	5 - 10 feet	Sapling
White Pine	20	Pole	8					

**166** 4310 - Pine, Oak Mix Poletimber Poor 22.2 86 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	25	Log	13		Red Maple	Low	10 - 20 feet	Seeding
White Oak	25	Log	13		White Pine	Low	5 - 10 feet	Sapling
White Pine	50	Log/Pole	12	86	Black Cherry	Medium	10 - 20 feet	Sapling
					Bigtooth Aspen	Medium	10 - 20 feet	Sapling
					Red Oak	Low	< 5 feet	Sapling
					White Oak	Low	< 5 feet	Sapling
					Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub

. 2021: Keep new age as understory. May be able to move to canopy nest entry. Areas with poor regeneration. Good bit of Cherry in understory. Aspen regen is patchy.

**167** 4199 - Other Mixed Upland Deciduous Sapling Medium 19.4 26 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling/Pole	4		White Oak	Medium	5 - 10 feet	Sapling
Northern Pin Oak	20	Sapling/Pole	4	26	Northern Pin Oak	Low	5 - 10 feet	Sapling
White Oak	38	Sapling/Pole	4	26	White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Sapling/Pole	4		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	10	Pole	6					
Red Pine	2	Sapling/Pole	4					

2020: Mixed age stand. Oak and pine left in overstory as retention from last harvest. Oak and pine poles from sprouts-1996 cut + seedlings and saplings that have grown in and filled in. Heavy stocking in places of saplings and seedlings. Called poles from 1996 harvest canopy but it there is a good bit of older canopy that could also still be the call. Let stand develop.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>168</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	12.3	102	51-80	N/A	2020: Variable stocking and diameters of oak/rm/pine. Patchy oak/rm/wp understory. Frost pocket in south. Keep this as an older oak pocket for now and let understory develop. Heavy deer browse at this time. Understory would develop better if mid canopy oak and rp was removed but that would create another age class. Surrounding stand is young oak mix so this would be good to keep for diversity. 2003FMD:O8 2011FMD: Open grown look of oak with low quality poles and red maple grown in. A little white pine as well. Not much for quality in the oak. Could green mark some better formed oak and plant red pine or laeve as oak pocket or cut out some of the lower quality stems and leave as oak pocket. There is already a lot of young aged oak/aspens in area. Ground lays good for planting and managing red pine. Would work well with other adjacent areas considered for planting.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole	8		White Pine		Low	10 - 20 feet	Sapling	
Red Oak		23	Log/Pole	12		Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub	
White Oak		45	Log/Pole	12	102	Northern Pin Oak		Low	< 5 feet	Seeding	
White Pine		5	Log	12		White Oak		Medium	< 5 feet	Seeding	
Jack Pine		5	Pole	8	83						
Northern Pin Oak		10	Log	12							
Red Pine		2	Log	14							

<b>169</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	6.1	84	81-110	N/A	2020: Jack pine declining and falling out. More JP in north end. Some of the red pine is getting large 16-18 dbh. Oak and rm understory. Could cut most and let it go to oak/rm. Recent clearcut on east side so may be better to wait. Good bedding cover for deer. Could also cut and re-plant red pine. Small stand so might not be practical unless joined to something else.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		10	Log	14	102	White Pine		Low	10 - 20 feet	Sapling	
White Oak		10	Log	14	102	Black Cherry		Low	10 - 20 feet	Sapling	
White Pine		5	Pole	8		Oak (spp.)		Low	>20 feet	Sapling	
Red Pine		40	Log	13	84						
Jack Pine		25	Log/Pole	11	84						
Black Cherry		5	Pole	8							

<b>170</b>	6120 - Lowland Cedar	Sawtimber Well	4.9	80	81-110	N/A	Strip along river with cedar, pine, aspen, rm.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		20	Log/Pole	12		White Pine		Low	< 5 feet	Sapling
Northern White Cedar		55	Log/Pole	12	80	Black Cherry		Low	< 5 feet	Sapling
White Pine		20	Log/Pole	14						
Red Pine		5	Log	12						

<b>171</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.7	85	81-110	N/A	2020: Stand along river corridor. Mice mixed stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole	9		Red Maple		Low	10 - 20 feet	Sapling
Red Oak		20	Log	13	102	White Pine		Low	10 - 20 feet	Sapling
White Oak		20	Log/Pole	12		Oak (spp.)		Low	10 - 20 feet	Sapling
Bigtooth Aspen		10	Log/Pole	11						
White Pine		30	Log	13	85					
Red Pine		10	Log/Pole	12	85					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**172**      42200 - Natural White Pine      Sawtimber Medium      5.2      110      1-50      N/A      2021: Several ages in stand. Pockets of wp poles and sapling with seed tree look from old wp in canopy. May be able to move to pole stand next entry. Some non-stocked areas remain. 2011: Stand swapped from Non-Forested to Forested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Pole/Sapling	8		White Pine	High	5 - 10 feet	Sapling
White Oak	5	Pole/Sapling	8		Oak (spp.)	Low	10 - 20 feet	Sapling
Quaking Aspen	5	Pole/Sapling	5					
Bigtooth Aspen	10	Pole	8	55				
White Pine	60	Log	15	110				
Red Pine	10	Log/Pole	12					
Jack Pine	3	Pole/Sapling	8					
Black Cherry	2	Pole/Sapling	8					

**173**      500 - Water      Nonstocked      4.0           Unspecified      No      River

**174**      4311 - Pine, Aspen Mix      Sawtimber Well      6.4      75      81-110      N/A      Mixed stand of pine ,oak, aspen along slope of river and bottomland. Pine may have been planted but no record.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	10		Red Maple	Low	< 5 feet	Sapling
Red Oak	10	Log/Pole	10	110	White Pine	Low	Variable	Sapling
White Oak	10	Log/Pole	10					
Paper Birch	3	Pole	8					
Bigtooth Aspen	25	Log/Pole	12					
Northern White Cedar	2	Pole/Sapling	8					
White Pine	30	Log/Pole	12	75				
Red Pine	15	Log/Pole	12					

**175**      42200 - Natural White Pine      Sawtimber Well      28.2      75      111-140      N/A      2021: Avg ba 130 but variable 80-180. Some areas with heavier stocking of wp poles. Some is weevilled. Aspen should be harvested. Could mark through pine. Mixed stocking and diameters. A little basswood and sugar maple. A little hawthorn. 2011: Mixed pine and aspen along river. Some oak and cedar mixed in near river. Scattered older pine at 100 yrs but most is 65. White pine saplings filling in the gaps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
White Oak	3	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	9		Black Cherry	Medium	5 - 10 feet	Sapling
Quaking Aspen	2	Pole	6		Red Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	20	Log	12	75	White Oak	Low	5 - 10 feet	Sapling
Northern White Cedar	2	Log/Pole	10		Ironwood	Low	5 - 10 feet	Sapling
White Pine	62	Log/Pole	12	75				
Red Pine	4	Log	14	75				
Jack Pine	3	Pole/Sapling	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**176** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 22.4 90 81-110 N/A 2020: Riparian area around lakes. Factro limited due to water and slopes.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	19	Log	12	90	White Pine	Medium	5 - 10 feet	Sapling
Red Oak	21	Log/Pole	12	90	Red Maple	Low	5 - 10 feet	Sapling
White Oak	15	Log/Pole	12					
White Pine	15	Log/Pole	12					
Red Pine	10	Log/Pole	12					
Red Maple	15	Log/Pole	10					
Jack Pine	5	Log/Pole	10					

**177** 4126 - White, Black, N. Pin Oak Sawtimber Medium 27.0 103 51-80 N/A 2020: Very good white oak seedling and sapling development in understory after harvest. Let develop for now but consider removing more overstory next entry. 2015: TS# 047-13. Harvest 9/2015. Marked for crop tree release and cut all aspen/rm

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log	13	103	White Pine	Low	5 - 10 feet	Sapling
White Oak	70	Log/Pole	11	103	Red Pine	Low	5 - 10 feet	Sapling
Northern Pin Oak	5	Log	11		White Oak	High	< 5 feet	Sapling
White Pine	5	Pole	8		Red Oak	Low	< 5 feet	Sapling
Red Pine	5	Pole	8		Red Maple	Low	5 - 10 feet	Sapling

**178** 4126 - White, Black, N. Pin Oak Sawtimber Well 21.8 103 111-140 N/A 2020: Good bit of White oak seedlings and saplings under in areas. Would develop more sub-canopy if canopy opened up. May work to regenerate oak in this stand by doing a partial harvest now and removing more later. Lower quality oak. Stand could be marked to remove lower quality. Some areas would have low basal area remaining but would fill in with oak seedlings. More wp mixed in on west part of stand. Part of stand westof road is oak/maple with planted red pine on slope. This was excluded from treatment to the north due to slope and North Country Trail. To small to stand alone as forested stand so added ot this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
Red Oak	20	Log	12	103	Red Pine	Low	5 - 10 feet	Sapling
White Oak	25	Log/Pole	11	103	White Oak	Medium	< 5 feet	Sapling
Bigtooth Aspen	5	Log	11		Red Oak	Low	< 5 feet	Sapling
Northern Pin Oak	15	Pole/Log	9					
White Pine	10	Pole/Log	9					
Red Pine	5	Pole/Log	9					

**179** 4126 - White, Black, N. Pin Oak Sawtimber Well 19.5 103 51-80 N/A 2020: Mix of old wolfy trees with small logs/poles. Most is the larger crowned low quality trees. Some oak seedling under but would be controllable if planted. Most are heavily browsed. Stand should have developed oak understory but that did not happen. Ground lays pretty good. Some slope. Stocking is variable 50-90 ba. Aspen is declining. Stand could be harvested and planted to red pine. May treat with stand 126 to west. East edge of stand is a little different and could be retention area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Red Oak	15	Log/XLog	15	103	Red Pine	Low	5 - 10 feet	Sapling
White Oak	35	Log/XLog	15	103	Northern Pin Oak	Medium	< 5 feet	Seeding
Bigtooth Aspen	10	Log	12		White Oak	Medium	< 5 feet	Seeding
Northern Pin Oak	20	Log/XLog	16					
White Pine	5	Pole	8					
Red Pine	5	Pole	8					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
<b>180</b>	4124 - Red with White Oak	Sawtimber Well	5.5	103	81-110	N/A	2020: Stand is lower quality mix. Not enough quality to thin at this time. Looks like it was thinned in the past. Mixed stocking. Office update 2017. Part of stand to east (stand 39) was treated.																																																																					
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<b>181</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	18.8	102	81-110	N/A	2020: Mixed oak and pine with aspen and red maple. More aspen in west part. Good island between planted pine stands. Let stand grow in.																																																																					
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<b>183</b>	42250 - Pine, Oak	Sawtimber Well	48.7	81	81-110	N/A	2020: Likely harvested in 1987 with stand to west. RM oak and aspen sprouts created from last harvest. A lot of oak, cherry, and white pine understory. Aspen clones scattered in stand. Looks like most pine was left. Mixed sizes of pine. Stump sprouts from last harvest grown into canopy and heavy sapling understory developed since. Pretty complicated stand with logs/poles/saplings. Let stand develop and self thin.																																																																					
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<b>184</b>	330 - Low-Density Trees	Nonstocked	3.9	0		No	Low density bushy jack pine and cherry																																																																					
<b>185</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	15.0	104	51-80	N/A	2020: Harvested spring 2020. Was portion of stand 40. Cut back to oak and pine with hope of getting new age formed in understory. Red maple and aspen sprouting but getting browsed heavily.																																																																					
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<b>187</b>	310 - Herbaceous Openland	Nonstocked	3.6		Unspecified																																																																							