

# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61053

Entry Year: 2027

Acreage: 3,143

County: Grand Traverse

Management Area: Kalkaska Sandy Moraines

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**Stand Examiner:** Patrick Cotant

### Legal Description:

: T26NR9W sections 19, 20, 21, 22, 23, 24

### Identified Planning Goals:

This compartment is part of the Kalkaska Sandy Moraines (MA). Vegetative management in this management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Boardman River (a designated natural river) and the Sand Lakes Quiet area (a designated high conservation value area), threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management objectives for this 10-year planning period include improving the age-class structure of aspen; increasing regeneration of oak; working toward balancing the red pine age-class structure; continuing emphasis on managing the northern hardwood resource for stand quality, age, and species diversity; wildlife values; and continued production of wood products. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are: increased recreational pressure, especially on the Muncie Lakes pathway, North Country and other established trails; increased oil and gas development; an increased wildland/urban interface; a need to restore oak/pine barrens communities; invasive plant control; and the conversion of poor oaks sites to mixed pine/oak sites. This compartment falls within land-type associations (LTAs) 2221, 5111, and 5549 of sub-subsection VII.2.2. LTA 2221, characterized by broad moraine ridges, few or no lakes, and well drained sand, occurs in the southeastern portion of the compartment. Circa 1800, 91% of the LTA supported northern hardwood forests of American beech and sugar maple. Wetlands were forested with various types of lowland conifers. The LTA has become quite fragmented with 19% consisting of various types with less than 5% cover. Cropland, now the most wide spread cover type, occurs on about 29% of the LTA with old fields occurring on another 13%. Pine forests, which occurred on only about 2% of the LTA circa 1800, now cover 20%; these are largely plantations. Northern hardwood forests also occur on 20% of the LTA, however this represents a significant reduction compared to circa 1800 acreage. LTA 5549, which occurs just along the northern edge of section 20, is a narrow outwash channel with very poorly drained peat and muck. Circa 1800, conifer swamps were the most common type (60%) in LTA 5549, with an additional 7% in hardwood/conifer and hardwood swamp. An additional 14% supported upland conifer types, including xeric jack pine and jack pine/red pine forest, as well as more mesic hemlock/white pine forest. Current land cover of LTA 5549 is a mosaic of lowland conifer, hardwood, shrub, and emergent swamp. LTA 5111, which occurs in the remainder of the compartment and is the dominant LTA, is a broad flat outwash plain with excessively drained sand and few lakes. LTA 5111 occurs in the southern three-quarters of the compartment. This LTA is a broad flat outwash plain with few kettle lakes and excessively drained sand. The circa 1800 vegetation of this LTA was variable but dominated by fire-dependent conifer forests, e.g. jack pine, red pine/white pine, and pine or oak/pine barrens. Calibri (Body) The LTA has become quite fragmented and 27% of its area supports cover types with less than 5% individual cover. Although 42% of the LTA still supports pine forests, much of this is red or jack pine plantation. Aspen/white birch forest, a type that did not occur here at the time of the General Land Office survey, now occurs on 14% of the area. Finally, second-growth northern hardwoods occur on another 8% of the LTA. GLO surveyors frequently reported the occurrence of large wildfires within LTA 5111. These fires were among the largest in the state, covering several square miles. Wind-throws, sometimes in combination with wildfire, were often reported.

### Soil and topography:

Rubicon-Rose lawn and Roscommon Sands with Rifle Peat and Lupton Muck along creeks. Compartment is flat to gently rolling with steeper slopes along entrenched streams and a few widely scattered ice block depressions.

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

State and private lands are intermingled within the compartment. Land in all directions surrounding compartment is mostly state ownership. Private holdings are generally rural in nature.

### Unique Natural Features:

Twenty-two Creek traverses the compartment and a branch enters the ground with considerable flow just south of the compartment. A branch of Carpenter Creek jogs in and out of the north side of the compartment. A high quality managed barrens area exist in Section 22. A large number of special plants, animals and natural communities occur within this LTA and potentially within this compartment.

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

None known, but a historic Native American trail crosses the adjacent compartment to the west.

### **Special Management Designations or Considerations:**

Beaver activity and deer winter yarding around creeks. Managed high quality Barrens Area is Section 22

### **Watershed and Fisheries Considerations:**

Both Carpenter Creek and Twenty Two Creek flow through this compartment. Both of these streams are designated trout streams with populations of naturally reproducing brook trout and brown trout, and are part of the State Designated Natural Rivers system (Boardman River). The Natural Rivers vegetative buffer for Twenty-two and Carpenter Creeks on State land is 100 feet. Beaver activity is common in both Twenty-two Creek and Carpenter Creek. Excessive beaver activity will degrade the natural flow dynamics of these streams, and should not be encouraged by final harvest activities in riparian areas.

### **Wildlife Habitat Considerations:**

Most of compartment 53 consists of a dry sandy outwash plain (LTA 5111). The sandy soil found here was often the setting for large wildfires. These fires sustained a variety of fire driven communities, mainly conifer forests at the time of the GLO surveys. Present habitat types include upland mixed stands of pine/oak/aspens of various ages interspersed with a few openings, upland brush, natural pine, and several oak communities. Timber harvests should be designed to mimic wildfires of various intensities, when possible. Several aspen, oak, and pine stands will have cutting prescriptions this entry period and should utilize mature pine and oak as residuals. The creation of dead and down logs will also be included in some sales. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. A large portion of this landscape has been identified by MNFI ecologists as a high quality remnant Oak Pine Barrens, one such fire driven natural community. By employing controlled fire on the landscape the hope is to restore a mosaic of natural pine, oak, aspen, and non-forested habitats like oak/pine barrens or savannas. Some species found in these early to mid-successional communities include: white-tailed deer, ruffed grouse, eastern bluebird, smooth green snake, long-tailed weasel, and red-tailed hawk. An Ecological Reference Area (ERA) management plan has been written for this occurrence of barrens. Also, many endangered, threatened, or special concern species can be found in these fire maintained ecosystems. Twenty-two Creek runs through this sandy outwash plain. A narrow strip of lowland conifers and lowland brush are found along the creek bottom and create a valuable riparian corridor through an otherwise dry landscape. A small tributary of Carpenter Creek also makes its way into the compartment. The east end of the compartment consists of broad rolling moraine ridges of dry sand. Several pine plantations are mixed with stands of oak, aspen, and northern hardwoods. Several deciduous stands are scheduled for treatments of various types. The final harvest of aspen should incorporate the protection of fruiting shrubs and the creation of coarse woody debris. The remaining thinning and selection cuts should result in a nice mix of tree species that will maintain or enhance habitat diversity. Standing dead timber is usually left during harvest operations. One opening, as well as a similar opening adjacent and south of Mayfield Road, will be burnt to stimulate the abundant little bluestem that is already present. Seeding native wildflowers into these openings should make a nice "showcase" treatment along Fife Lake Rd. This matrix of mixed upland deciduous and grassy openings will benefit badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, and gray squirrel.

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

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. No active sand/gravel operations are known to exist in the area. There may be some potential for sand & gravel in the compartment on the uplands, but the compartment might be too far from populated areas (markets) for any aggregate resources to have much value beyond use by the county road commission or DNR for local road maintenance. The west half of the compartment is within the Silurian reef hydrocarbon play, and a number of wells have been completed within the compartment, but only a few were productive. All of the wells have since been plugged and abandoned, and all State mineral leases within the compartment are expired. There has been no recent well permit activity, but there may still be potential for additional discoveries of reef reservoirs beneath the compartment in the future.

### **Vehicle Access:**

Access is generally good via county roads-Fife Lake Road, Boardman Road, Mayfield Road and Carpenter Creek Road. There are also a number of two tracks that traverse the compartment.

### **Survey Needs:**

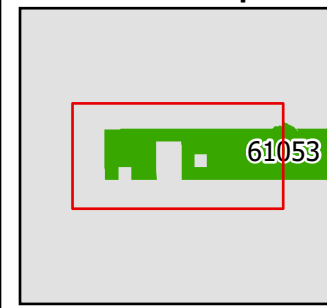
Section 23. Timber trespass. NW corner of private 80 must be located. Section 20. State Lands posted around private 40 NESW.

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

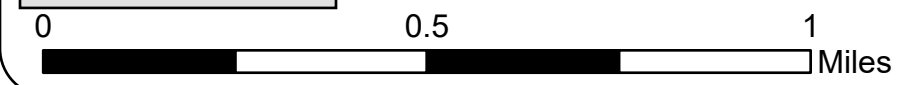
A variety of trail opportunities are offered in this compartment. The motorized trails include: the Grand Traverse Motorcycle Trail, Michigan Cross Country Cycle Trail (MCCCT), and Snowmobile trail #55 (Grand Traverse Snowmobile Trail). Non-motorized recreational opportunities include the Shore to Shore Riding and Hiking Trail, and sections of the North Country National Scenic Trail. Trail protection specifications should be considered for all these trails. Specifically, guidance provided by Policy and Procedures document "32.22XX Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails" should be followed. In addition, guidance provided in the "Logging Operations and Horse



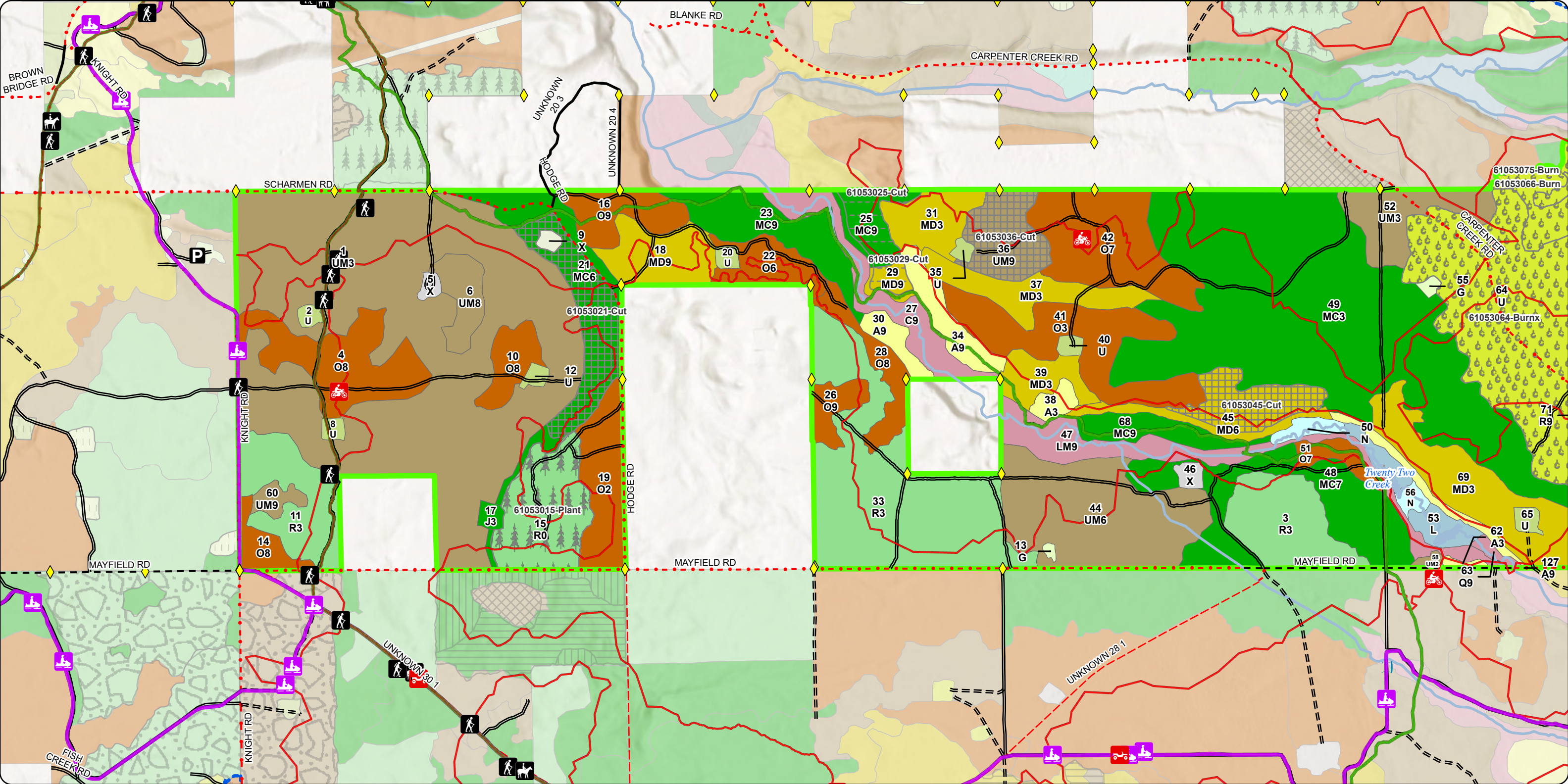
# Cover Type & Treatments Map



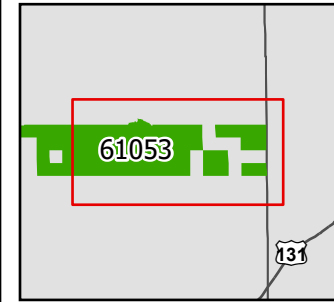
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 T26N R09W 19-24  
 County: Grand Traverse  
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 YOE: 2027  
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 Map Phase: Post Maps



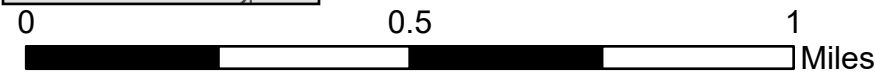
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- Culvert
- Parking Lot
- Designated ORV Routes
- Designated Motorcycle Trails
- Designated Snowmobile
- Designated Hiking Pathway
- Designated Equestrian Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Seed Tree
- Overstory Removal
- Planting (tree species)
- Prescribed Burn
- Treatments with Site Conditions
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated



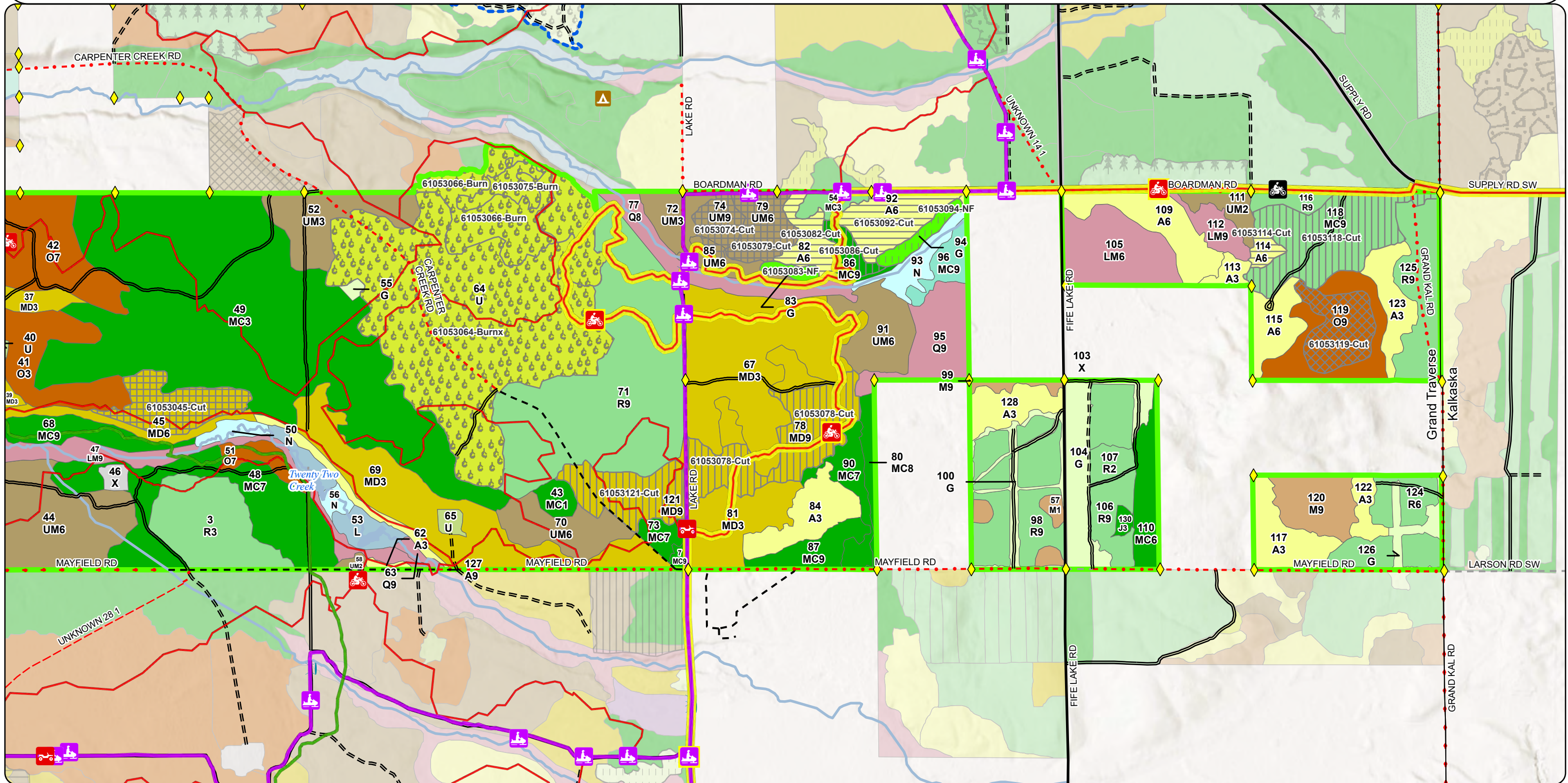
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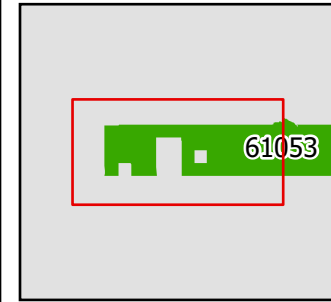
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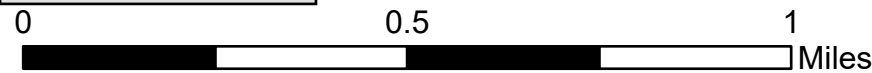
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|---|--|---|---|--|
| <ul style="list-style-type: none"> <li> Survey Grade Corners</li> <li> Culvert</li> <li> Campground</li> <li> Designated MCCCT Trails</li> <li> Designated ORV Routes</li> <li> Designated Motorcycle Trails</li> <li> Designated Snowmobile</li> <li> Designated Hiking Pathway</li> </ul> | <ul style="list-style-type: none"> <li> DNR - Secondary Forest Road</li> <li> DNR - Forest Access Route</li> <li> Federal / State / County - Paved Road</li> <li> Federal / State - Dirt / Gravel Road</li> <li> County - Gravel Road</li> <li> County - Dirt Road (Seasonal)</li> <li> Private - Dirt / Gravel Road</li> <li> Streams</li> <li> Lakes and Rivers</li> </ul> | <ul style="list-style-type: none"> <li> Compartment Boundary</li> <li> Clearcut</li> <li> Selection</li> <li> Seed Tree</li> <li> Shelterwood</li> <li> Prescribed Burn</li> <li> Openings Mgmt.</li> <li> Treatments with Site Conditions</li> <li> 411 - Northern Hardwood</li> </ul> | <ul style="list-style-type: none"> <li> 412 - Oak Types</li> <li> 413 - Aspen</li> <li> 419 - Mixed Upland Decidous</li> <li> 421 - Planted Pines</li> <li> 422 - Natural Pines</li> <li> 429 - Mixed Upland Conifers</li> <li> 430 - Upland Mixed Forest</li> <li> 612 - Lowland Coniferous Forest</li> <li> 613 - Lowland Mixed Forest</li> </ul> | <ul style="list-style-type: none"> <li> 211 - Cropland</li> <li> 110 - Low Intensity Urban</li> <li> 122 - Road/Parking Lot</li> <li> 310 - Herbaceous Openland</li> <li> 320 - Upland Shrub</li> <li> 330 - Low Density Trees</li> <li> 622 - Lowland Shrub</li> <li> 623 - Emergent Wetland</li> </ul> |
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# Stand Boundary Map

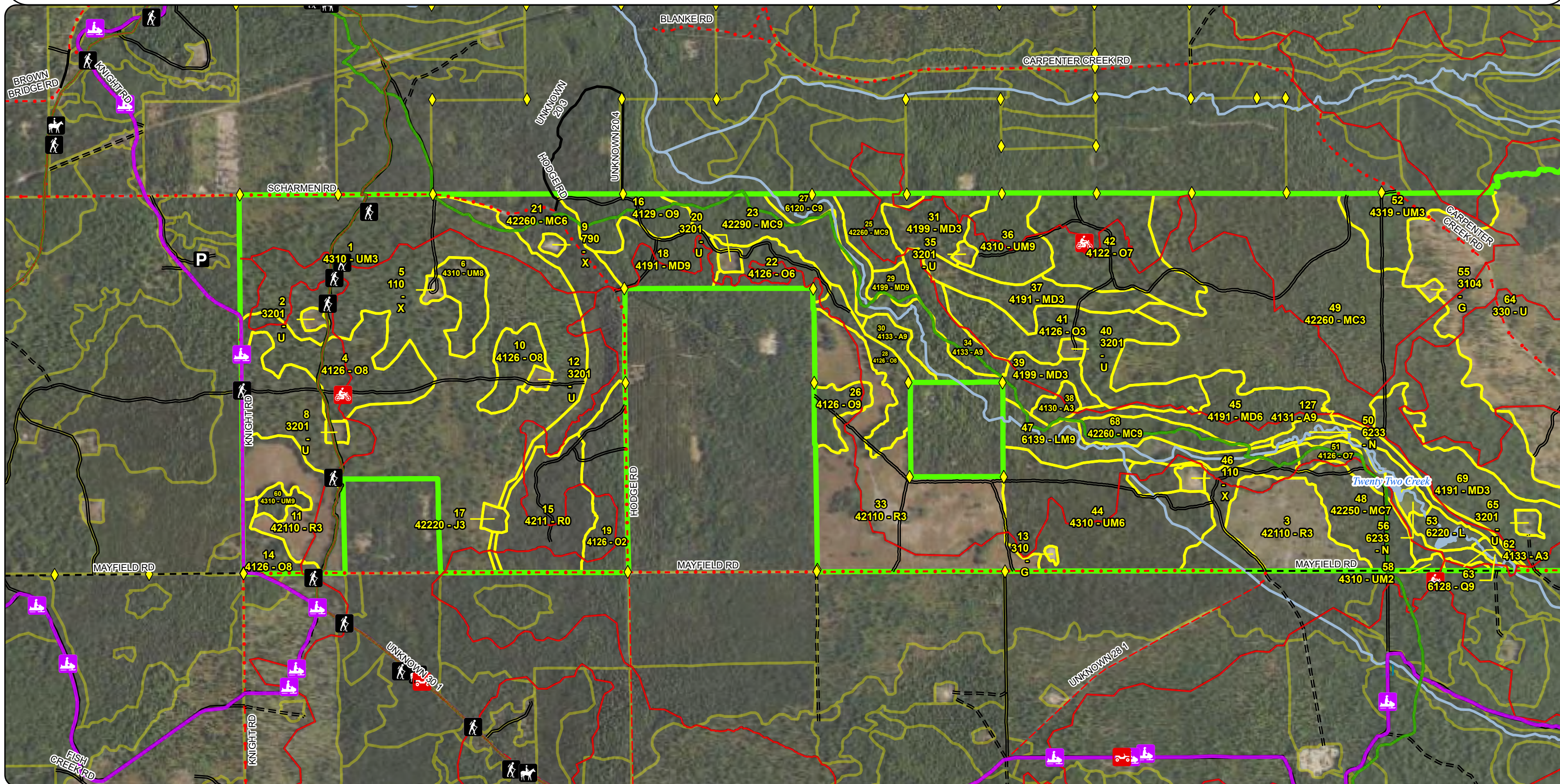


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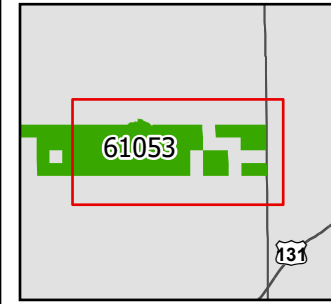


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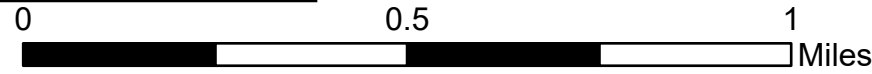
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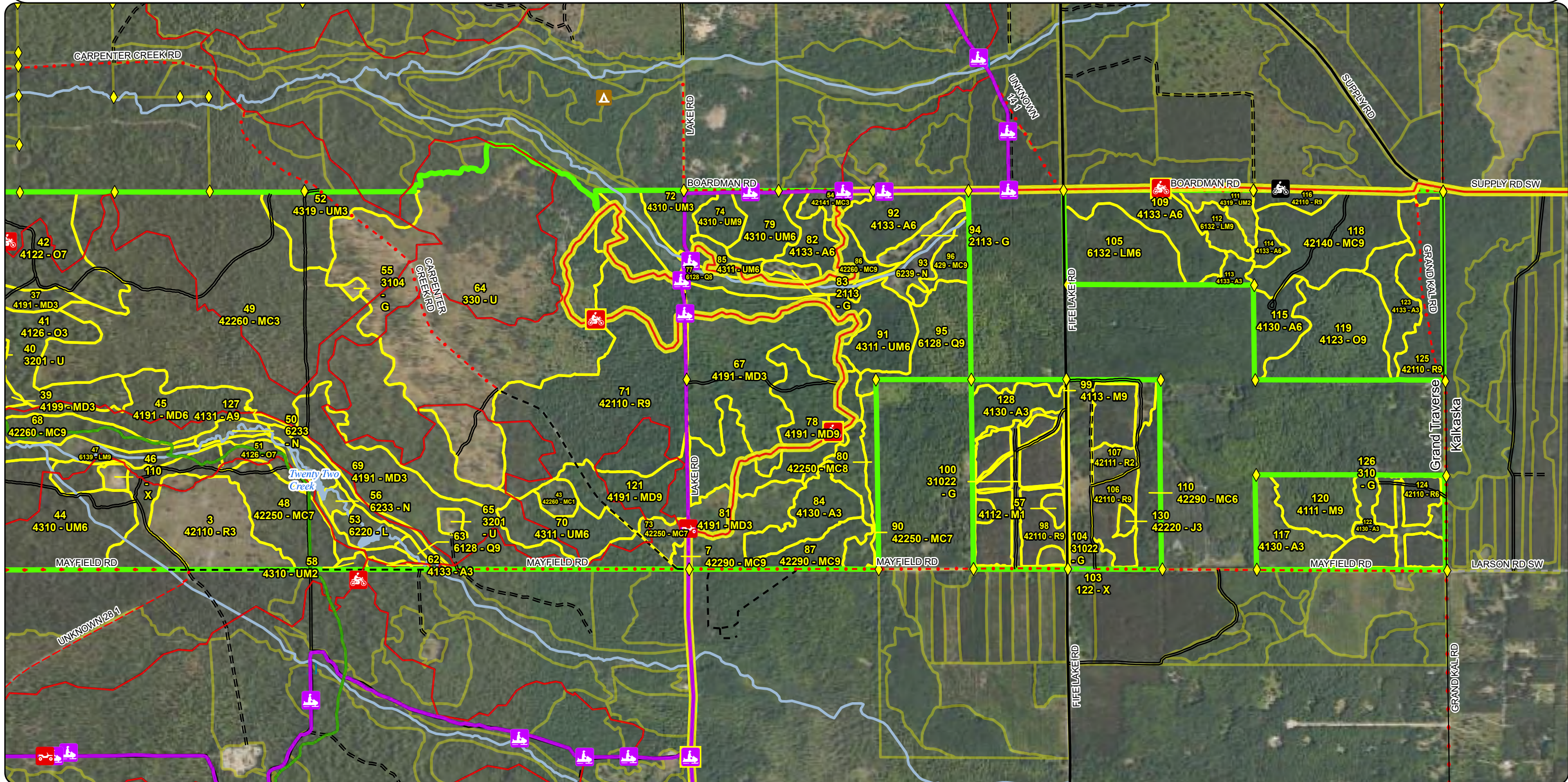


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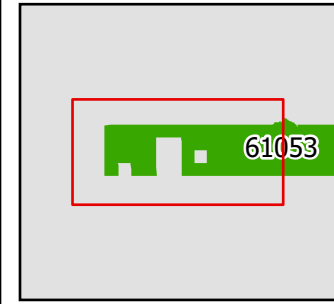


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- Campground
- Designated MCCCT Trails
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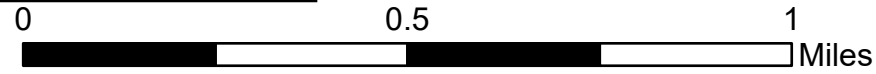
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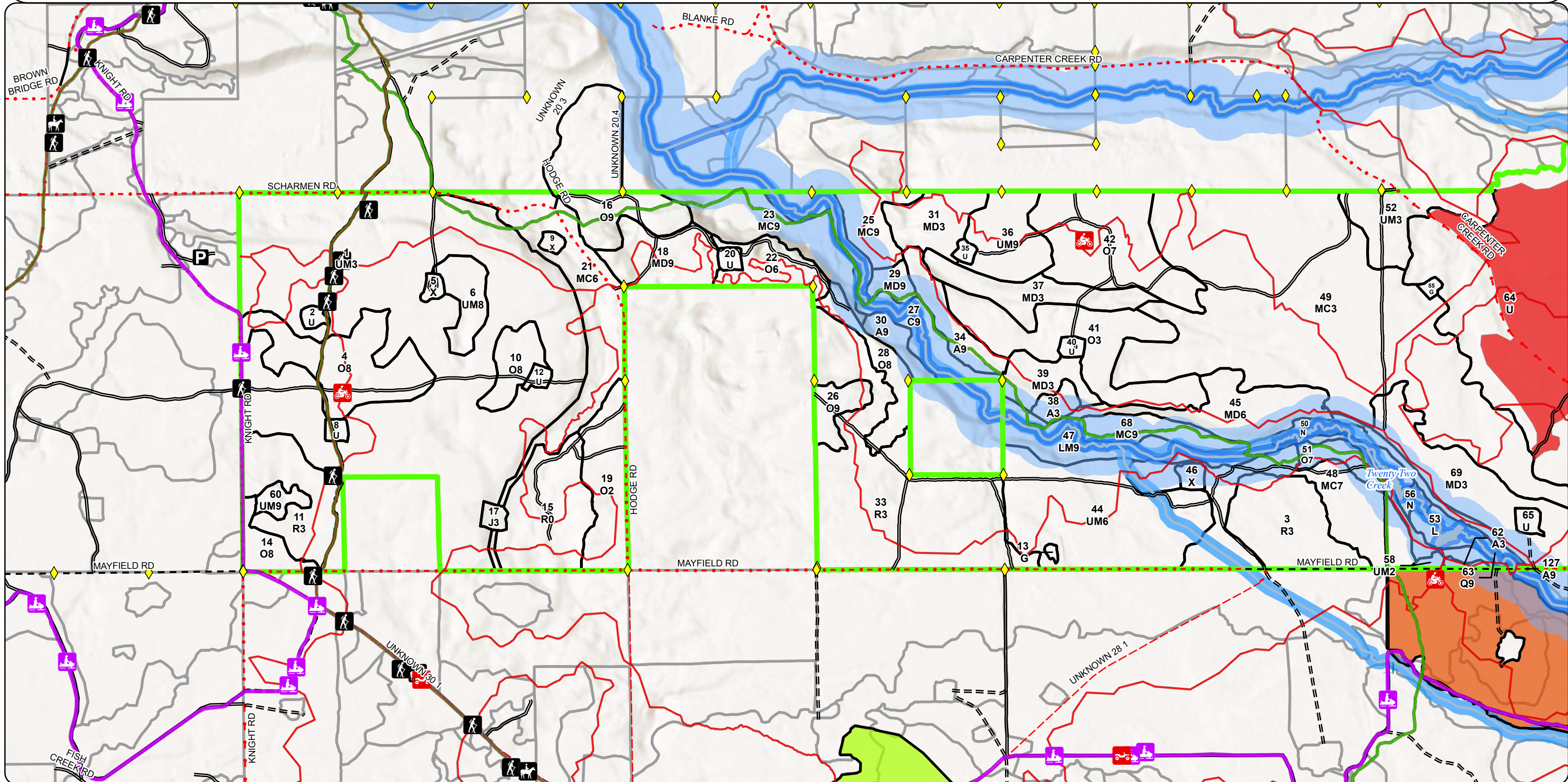
# Special Conservation Areas & Site Conditions Map



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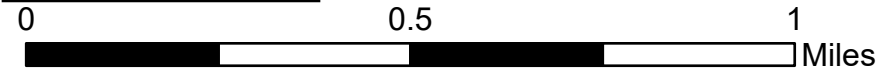
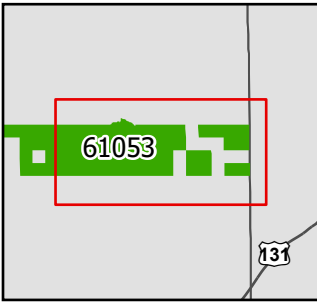


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- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area
- Possible Type 2 Old Growth

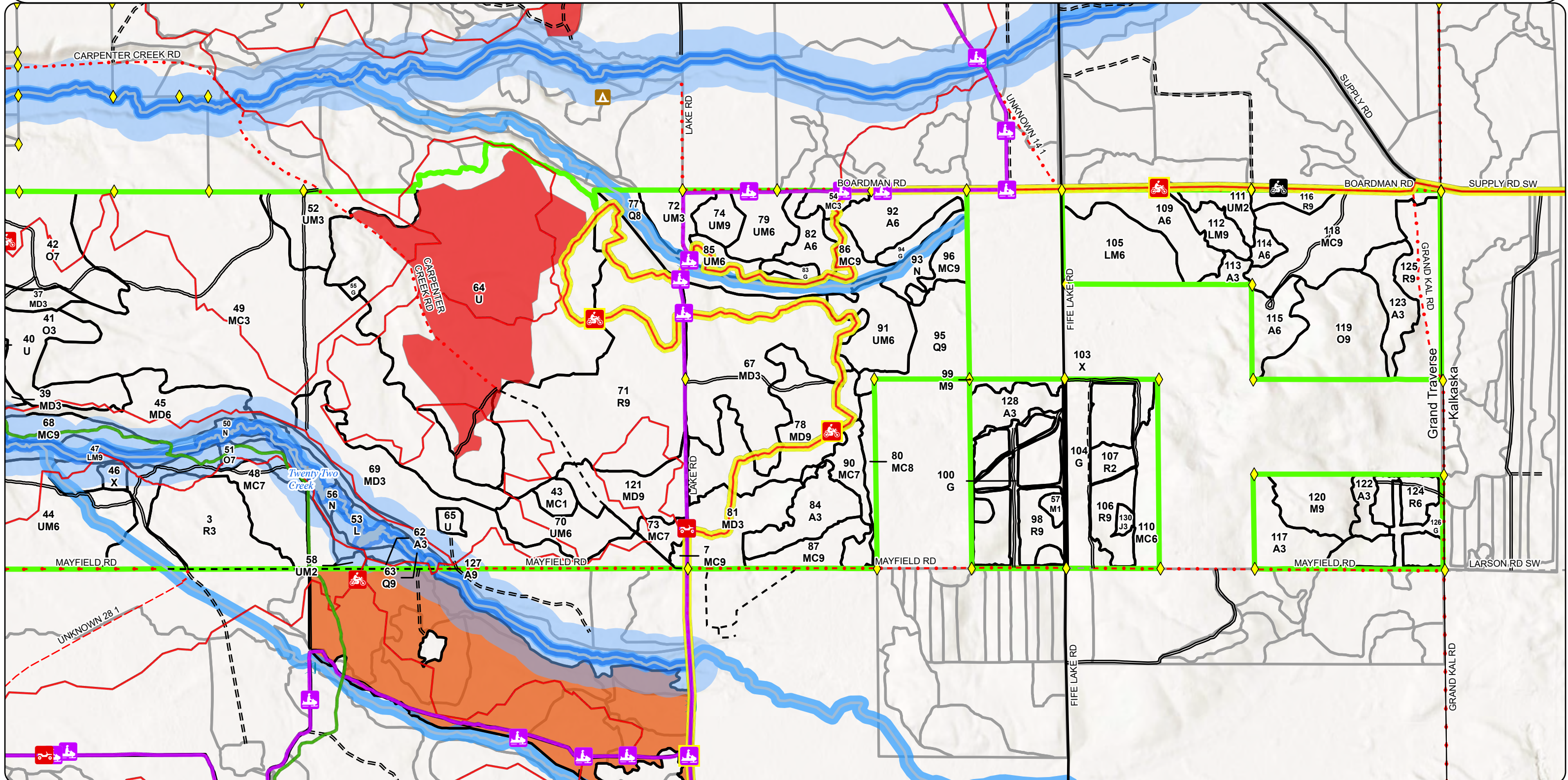


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- Compartment Boundary
- High Priority Trout Stream Buffer
- Designated Motorcycle Trails
- County - Gravel Road
- Stand Boundaries
- Other Habitat Area
- Designated Snowmobile
- Ecological Reference Areas



Events on State Land" should be considered when settling up timber sales that may impact the Shore to Shore Riding & Hiking trail. (T.M.N. 12/9/14).

**Fire Protection:**

This area is protected by Grand Traverse Fire Battalion # 6 and DNR fire protection is from the Traverse City Unit. Access to most areas in the compartment is adequate and there has not been significant recent wildfire activity.

**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**

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

Traverse City Mgt. Unit  
Patrick Cotant: Examiner

Compartment 53    Year of Entry 2027

## Age Class

	<i>Non-Forest</i>	<i>0-9</i>	<i>10-19</i>	<i>20-29</i>	<i>30-39</i>	<i>40-49</i>	<i>50-59</i>	<i>60-69</i>	<i>70-79</i>	<i>80-89</i>	<i>90-99</i>	<i>100-109</i>	<i>110-119</i>	<i>120-129</i>	<i>130-139</i>	<i>140-149</i>	<i>150+</i>	<i>Unseen-Aged</i>	<i>Total</i>
Aspen	0	20	60	5	41	0	38	0	8	0	24	0	0	0	0	0	0	0	196
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	29
Cropland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Jack Pine	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	24	26	0	0	0	0	0	0	50
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	82
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	227	15	0	0	0	0	0	6	0	139	0	0	0	0	0	0	387
Natural Mixed Pines	0	0	263	0	5	0	73	0	59	22	10	6	0	29	50	0	0	0	517
Northern Hardwood	0	6	0	0	0	0	0	0	0	0	4	20	0	0	0	0	0	0	30
Oak	0	31	55	0	0	0	0	0	0	0	99	109	18	19	0	0	0	0	331
Planted Mixed Pines	0	0	6	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	52
Red Pine	43	197	0	6	0	0	0	93	0	30	139	0	0	0	0	0	0	0	506
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Upland Mixed Forest	0	330	41	2	106	0	34	16	0	0	0	56	0	0	0	0	0	0	585
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
<b>Total</b>	<b>407</b>	<b>584</b>	<b>654</b>	<b>28</b>	<b>155</b>	<b>0</b>	<b>145</b>	<b>109</b>	<b>67</b>	<b>58</b>	<b>429</b>	<b>385</b>	<b>27</b>	<b>48</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3142</b>

## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 53  
Total Compartment Acres: 3,143

Commercial Harvest - 608  
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	37	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	0	0	0	24	66	0	4	0	0	95
Natural Mixed Pines	0	0	0	35	7	0	14	0	0	56
Oak	0	21	0	0	0	0	0	0	0	21
Planted Mixed Pines	0	0	0	0	47	0	0	0	0	47
Upland Mixed Forest	0	0	0	53	0	0	0	0	0	53
<b>Total</b>	<b>37</b>	<b>21</b>	<b>0</b>	<b>112</b>	<b>120</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>309</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	309	0	43	0	244	0	0	0	10	605
Next Step	0	0	0	0	0	0	581	0	0	581
<b>Total</b>	<b>309</b>	<b>0</b>	<b>43</b>	<b>0</b>	<b>244</b>	<b>0</b>	<b>581</b>	<b>0</b>	<b>10</b>	<b>1186</b>

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

<b>15</b>	<b>61053015-Plant</b>	42.7	4211 - Planted Red Pine	0	1	Immature	Planting	Planting (tree species)	42111 - Planted Red Pine, Mixed Deciduous		No
<p><u>Prescription</u> Plant red Pine unfurrowed due to hills and residual trees</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, jack pine, oak, red maple, aspen, 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> 10/01/2025</p>											
<b>21</b>	<b>61053021-Cut</b>	34.8	42260 - Natural Pine, Mixed Deciduous	6	56	81-110	Harvest	Seed Tree	4310 - Pine, Oak Mix	Cutting Record	No
<p><u>Prescription</u> Treat stand by removing all jack pine, cherry, red maple and red oak. Retain 10-20 BA of white oak along with all red pine and white pine.</p> <p><u>Specs:</u> Protect Motorcycle trail, apply additional retention of white oak along trail corridor - exclude portion of stands</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, white oak, white pine, cherry and red maple.</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> 10/01/2026</p>											
<b>25</b>	<b>61053025-Cut</b>	14.1	42260 - Natural Pine, Mixed Deciduous	9	121	81-110	Harvest	Overstory Removal	4310 - Pine, Oak Mix	Planting Record	No
<p><u>Prescription</u> Treat stand by overstory removal, retain all red and white pine 8" and larger. Protect trail, ensure creek buffer is adequate paying close attention to topo lines. Protect trail using appropriate contract specs.</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> White pine, red pine, white oak, red oak and aspen, with jack pine likely to seed in.</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> 10/01/2026</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>29 61053029-Cut</b>	4.3	4199 - Other Mixed Upland Deciduous	9	81	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Harvest portion of this stand, removing aspen, red maple, red oak and any remaining jack pine. Retain a few white oak for mast along with red and white pine.</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> 10/01/2026</p>										
<b>36 61053036-Cut</b>	26.4	4310 - Pine, Oak Mix	9	106	141-170	Harvest	Seed Tree	4122 - Oak, Pine	Cutting Record	No
<p><u>Prescription</u> Seed tree harvest stand, retaining 10-20 BA of large white oak and larger red and white pine. Residual BA will vary in spots as additional retention should be applied along motorized recreation trail and in pockets of concentrated large red and white pin</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> White oak, red oak, white pine, red pine, aspen, red maple and jack pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
<b>45 61053045-Cut</b>	23.9	4191 - Mixed Upland Deciduous with Conifer	6	106	51-80	Harvest	Seed Tree	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Treat stand with seed tree harvest, retaining scattered white oak and red/white pine to continue to develop white oak understory while also providing a seed and mast source. Keep treatment on top of slope which leads to 22 creek, this will also leave maj</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> White oak, white pine, red maple, jack pine and aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
<b>64 61053064-Burnx</b>	182.9	330 - Low-Density Trees	99			Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<p><u>Prescription</u> Burn periodically to maintain and enhance barrens type. The goal of prescribed burning is to restore and maintain an Oak/Pine Barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Other - Specify</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> 10/01/2026</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>64 61053066-Burn</b>	52.1	330 - Low-Density Trees	99			Burn	Prescribed Burn	330 - Low-Density Trees	Previous Inventory	No
<p><u>Prescription</u> Monitor formation of barrens type. Schedule future prescribed burns to maintain and enhance feature,  <u>Specs:</u></p> <p><u>Next Step</u>  <u>Treatments:</u></p> <p><u>Acceptable</u> typical barrens type flora.  <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%  <u>Comment:</u></p> <p><u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>74 61053074-Cut</b>	10.2	4310 - Pine, Oak Mix	9	106	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Treat stand with seed tree harvest, retain large canopy white oak, ~ 10 BA, this should help shelter advancing white pine white oak regen,  <u>Specs:</u> expect jack pine and aspen to regenerate as well throughout stand. *expand treatment south into stand 85 attempting</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> White oak, aspen, jack pine, white pine and red maple.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>64 61053075-Burn</b>	8.8	330 - Low-Density Trees	99			Burn	Prescribed Burn	31022 - Warm Season Grass	Previous Inventory	No
<p><u>Prescription</u> Carpenter Creek Oak Pine Barrens. Continue rotational burns as needed. Divide into several burn units to stagger burns over several  <u>Specs:</u> years. Treat for exotics as needed, particularly spotted knapweed along two tracks.</p> <p><u>Next Step</u> Monitoring, Other - Specify  <u>Treatments:</u></p> <p><u>Acceptable</u> Barrens typical flora.  <u>Regen:</u></p> <p><u>Other</u> The goal of prescribed burning is to restore and maintain an Oak/Pine Barrens ecosystem. The timing and frequency of the burns will be  <u>Comment:</u> based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove</p> <p><u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>78 61053078-Cut</b>	41.2	4191 - Mixed Upland Deciduous with Conifer	9	106	111-140	Harvest	Shelterwood	4122 - Oak, Pine	Planting Record	No
<p><u>Prescription</u> Shelterwood harvest protecting advanced and smaller regeneration. Retain 20-50 BA of white oak for mast source along with larger, well  <u>Specs:</u> formed red and white pine. Retain 2-3 islands of large, super canopy white and red pine in eastern lobe of stand. Pro</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> White oak, white pine, aspen, red maple and jack pine.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/01/2026</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>79 61053079-Cut</b>	16.44310	Pine, Oak Mix	6	66	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Treat stand with a seed tree harvest, retaining scattered single stem white oak, white pine and red pine for mast and continued seed source.  <u>Specs:</u> Less retention near more dense aspen clones. Attempt to protect advanced white pine and white oak regen.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, white oak, white pine, red pine, red maple and jack pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
<b>82 61053082-Cut</b>	12.0	4133 - Aspen, Mixed Pine	6	56	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<p><u>Prescription</u> Treat stand with final harvest, retaining some red pine and white oak for vertical structure, aesthetics, mast and seed source. Protect trail at E/SE edge of stand, include trail protection specs in contract. Remove all aspen, red maple and jack pine reg  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, red maple, jack pine, white oak, red pine and white pine.</p> <p><u>Other Comment:</u> Use grouse/drumming log spec within treatment area.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
<b>83 61053083-NF</b>	3.4	2113 - Forage Crops	99			NonForestMgt	Openings Mgmt.	31021 - Cool Season Grass	Previous Inventory	No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of wood  <u>Specs:</u></p> <p><u>Next Step</u>  <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> 10/01/2026</p>										
<b>86 61053086-Cut</b>	7.2	42260 - Natural Pine, Mixed Deciduous	9	91	81-110	Harvest	Shelterwood	4311 - Pine, Aspen Mix	Cutting Record	No
<p><u>Prescription</u> Shelterwood harvest with additional retention along MCCCT trail for aesthetic purposes and to maintain trail bed/corridor. Focus retention on larger red and white pine along with scattered white oak for mast source. Retention should range between 20-40  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed aspen, red maple, red pine, white pine and white oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
92	61053092-Cut	21.4	4133 - Aspen, Mixed Pine	6	56	111-140	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<p><u>Prescription</u> Final harvest stand. Retain scattered, larger diameter white pine localized along Boardman rd for aesthetics. In addition mark a few larger white oak throughout stand for mast source, and retain some larger white oak at edge of wildlife opening.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, white pine, white oak and red maple.</p> <p><u>Other Comment:</u> Use grouse/drumming log spec within treatment area.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
94	61053094-NF	6.2	2113 - Forage Crops	99			NonForestMgt	Openings Mgmt.	31021 - Cool Season Grass	Previous Inventory	No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of wood</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> 10/01/2026</p>											
114	61053114-Cut	3.9	4133 - Aspen, Mixed Pine	6	56	141-170	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<p><u>Prescription</u> Clearcut with retention harvest, with the goal of regenerating aspen in this small pocket when adjacent pine stand is treated. 2-3 legacy white and red pine present, do not harvest - in addition, retain 4-5 additional white pine greater than 12" w/in stan</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, red maple and white pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
118	61053118-Cut	46.5	42140 - Planted Mixed Pine	9	95	141-170	Harvest	Shelterwood	4311 - Pine, Aspen Mix	Planting Record	No
<p><u>Prescription</u> Treat stand with shelterwood harvest, retaining 30-40 BA of red and white pine in areas where aspen is more dense, with the goal of regenerating aspen and providing a conifer seed source to continue propagating natural red and white pine regeneration. Pro</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, white pine, red pine and red oak.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</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
119 61053119-Cut	21.1	4123 - Red Oak	9	91	81-110	Harvest	Selection	4121 - Oak, Aspen	Planting Record	No
<p><u>Prescription</u> Conduct single tree selection on treatment area, reducing overall BA to 60-70 sq ft/ac. Focus removal on poorly formed and suppressed trees while also removing trees with significant dieback in tops. Retain all conifers w/in treatment area and protect a</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red oak, red maple, aspen, white pine and red pine.</p> <p><u>Other Comment:</u> Use oak wilt specs in contract.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
121 61053121-Cut	25.1	4191 - Mixed Upland Deciduous with Conifer	9	106	111-140	Harvest	Shelterwood	4121 - Oak, Aspen	Planting Record	No
<p><u>Prescription</u> Treat stand with shelterwood harvest. Retain 20-40 ba of white oak and red &amp; white pine and protect intermediate canopy trees where possible, specifically white pine and white oak, 4" and less dbh. Protect motorized trail within stand retaining addition</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> white oak, white pine, aspen, red maple and jack pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

**Total Treatment Acreage Proposed: 604.6**

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant: Examiner

Compartment: 53

Year of Entry: 2027

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5C	2F	2G	3A	3D	3J	5E	
182	160	0	22	Aspen		8		8				6
2	2	0	0	Bare/Sparsely Vegetated								
29	0	0	29	Cedar						29		
10	10	0	0	Cropland								
50	50	0	0	Herbaceous Openland								
5	5	0	0	Jack Pine								
245	245	0	0	Low-Density Trees								
50	0	0	50	Lowland Conifers						50		
82	0	0	82	Lowland Mixed Forest			82					
14	15	0	0	Lowland Shrub								
19	19	0	0	Marsh								
291	241	27	23	Mixed Upland Deciduous	27				10			13
452	380	0	72	Natural Mixed Pines				16		34		22
30	30	0	0	Northern Hardwood								
330	291	39	0	Oak	39							
52	53	0	0	Planted Mixed Pines								
364	350	0	14	Red Pine								14
9	0	0	9	Upland Conifers				9				
584	554	24	5	Upland Mixed Forest	24							5
15	15	0	0	Upland Shrub								
8	8	0	0	Urban								
2,822	2,426	90	306	Total Forested Acres	90	8	82	34	10	113		60
	86%	3%	11%	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	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland mix-cedar							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant: Examiner

Compartment: 53

Year of Entry: 2027

2	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	34	2F: Too steep	3D: Recreational/scenic values	Unspecified	Unspecified
<b>Comments:</b> The North Country Trail bisects this stand as does 22 Creek. This stand is considered type II old growth.							
3	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 22 Creek flows through stand, riparian area contains numerous large, old growth white and red pine.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> South Branch Carpenter Creek corridor and riparian area.							
7	<b>Unavailable</b>	<b>3A: Conservation values incompatible with harvest at this time</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Old growth natural pine stand with mixed deciduous.							
8	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	26	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lowland swamp conifer stand with numerous seeps, sensitive soils and high water table influence.							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant: Examiner

Compartment: 53

Year of Entry: 2027

10	<b>Unavailable</b>	<b>3A: Conservation values incompatible with harvest at this time</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	39	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3A: Conservation values incompatible with harvest at this time</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	2	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Upland steep slope and bottomland along creek drainage.							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant: Examiner

Compartment: 53

Year of Entry: 2027

15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Aspen is relatively small diameter, recommend waiting until next YOE to conduct harvest, recommend aspen removal, retain white pine.							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural pine stand, large diameter and old age.							
17	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Slope to 22 creek and recreation trail protection, management is incompatible with conservation values at this time.							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	66	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Patrick Cotant: Examiner

Compartment: 53  
Year of Entry: 2027

22	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	2F: Too steep	8	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Upslope from creek, some seeps at base of slope and stand gets hummocky and wet in northern portion.							
36	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
51	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

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SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	4310 - Pine, Oak Mix	Sapling Well	321.6	9	1-50	N/A	Stand is a mix of planted red pine, 3-7' tall and 7 years old along with resulting natural deciduous regen from harvest. In addition, 10-30 BA of white oak, white pine and trace red pine make up the overstory that was retained during most recent harvest. Some pockets slightly more dense, other areas with less overstory stocking. 2020; STAND WAS SCHEDULED FOR SKIDDER HERBICIDE RELEASE. dropped TREATMENT. ACCEPT MIXED STAND AS ORIGINALLY INTENDED. 2015: part of TS# 052-14. Cut all merchantable -oak and pine retention. Stand was chip harvested, trenched and planted to red pine (spring 2016). South part of stand planted 2017. 1st yr regen check done 2017. 350-500 tpa red pine. A good bit of natural regeneration from aspen rm, cherry, oak. Consider replant. A good bit of mortality noted in regen check. This site was initially planted during very dry spring and summer. Re-planted spring 2018. Checked regen 10/10. Recommend release herbicide application.																																																							
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2	3201 - Sweet Fern	None	2.1			No	Mostly sweetfern with clumps of little bluestem. A few holes.																																																							
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3	42110 - Planted Red Pine	Sapling Well	39.8	6	Immature	N/A	Red pine growing fairly well, some patchy competition in areas of stand, mainly consisting of jack pine and cherry with scattered white oak and red maple. 2023 - Year 3 Regeneration Survey was completed 9/13/2023. There is currently 685 Trees per Acre and stand is 79% Free to grow 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 887 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. Check stand for year 3 regeneration survey is recommended. 2021: Stand planted with containerized red pine. 2020: Herbicide applied skidder fall 2020. TS# 064 17. Harvest 8/2018. Trenched 2019. Scheduled herbicide 2020 and plant 2021. Cut to 1 inch to prep site for red pine planting. Was a rp/jp site with some oak and rm. Jp had been removed in earlier harvest and was growing in gaps. Site should be allowed to sprout with a herbicide application in 2019. Plant 2020. Retention along road and motorcycle trail.																																																							
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4	4126 - White, Black, N. Pin Oak	Sawtimber Medium	45.3	106	1-50	N/A	Stand responding well to most recent treatment, good regeneration and advanced regen that was released is progressing well to intermediate canopy level. Overstory oak and pine are in good condition, stand along with other islands w/in stand 1 are providing good vertical structure and some additional diversity and cover.  2020: Stand treated. Removed jp, aspen and poorly formed oak and rm. Intention is to create oak islands surrounded by younger stand formed from other treatments.																																																							
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5	110 - Low Intensity Urban	None	2.1			No	Active well site.																																																						
6	4310 - Pine, Oak Mix	Sawtimber Medium	14.6	106	1-50	N/A	Good mix of species making up canopy with higher percentages of conifer than other island stand w/in stand 1. Growing well overall, advanced and new regeneration are in good shape and progressing well, providing some good cover in spots. 2020: Stand treated. Removed jp, aspen and poorly formed oak and rm. Intention is to create oak islands surrounded by younger stand formed from other treatments.																																																						
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7	42290 - Natural Mixed Pine	Sawtimber Well	1.8	94	81-110	N/A																																																							
8	3201 - Sweet Fern	None	2.1			No	Really nice old well pad. Equal mixture of sweetfern and little bluestem. Jack pine encroaching. Leave as-is.																																																						
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9	790 - Other Bare/Sparsely Vegetated	None	1.8			No	Allot of bare soil in center. Should do something here. FMFM recommends leaving as-is, replant to jack pine during next compartment cycle when adjacent stand is ready for cut. Need to fix berm.																																																						
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10	4126 - White, Black, N. Pin Oak	Sawtimber Medium	14.0	106	51-80	N/A	Stand is regenerating well following recent harvest, advanced regen is progressing and entering intermediate canopy in spots, regen resulting from harvest is doing well with a good mix of species present. Overstory oak and pine are good quality and in good shape.																																																						
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							Harvest 2020 Harvest jack pine, aspen and poorly formed oak and red maple. Maintain as oak island within larger surrounding harvest. Expect new age class to form in gaps created by harvest																																																						

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11	42110 - Planted Red Pine	Sapling Well	38.0	4	Immature	N/A	2025 - Year 3 regeneration check was completed 9/25/2025. There are currently 841 Tree Per Acre and stand is 92% free to grow.2023 - Year 1 Regeneration Survey was Completed 9/13/2023. There is currently 857 Trees Per Acre and the stand is currently 98% Free to Grow at this time. 2023 - Stand was planted to red pine, 911 TPA. 2022 - Stand was Contacted Skidder Sprayed 7/18/20222021 - Stand Was contracted trenched2020: Site chip harvested to prep for planting.																																																		
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12	3201 - Sweet Fern	None	2.1			No	Sweetfern opening.																																																		
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13	310 - Herbaceous Openland	None	0.7			No	Old well site slowly converting to jack pine regeneration around edges which has been incorporated into adjacent stand.																																																		
14	4126 - White, Black, N. Pin Oak	Sawtimber Medium	11.0	106	51-80	N/A	Responding well after treatments, significant white oak regen in places along with aspen sprouts and some jack pine seedlings.																																																		
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15	4211 - Planted Red Pine	Unspecified	42.9	1	Immature		8/15/2025 Stand Site Prep Sprayed by Contract Helicopter. DNR- New -- w/MSO mix was used.2023 - Stand harvested in summer 2023. Trench, spray and plant red pine. Trench around motorcycle trail which loops through stand. Shrub and tree buffer along trail.																																																		
16	4129 - Mixed Oak	Sawtimber Well	21.6	106	141-170	N/A	Fair quality stand, less of a conifer component than adjacent stand 18. Was originally part of stand 23 but is mainly upland. NCT passes through stand along with forest road. Oak is fair quality, some pockets of white oak regen and a fair amount of white pine saplings. Consider treating this stand along with stand 18 and 22 next YOE.																																																		
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17	42220 - Natural Jack Pine	Sapling Well	2.7	31	Immature	N/A	Natural succession of jack pine into old well site. Averages 4" DBH but some merchantable trees throughout stand, will likely be J6 next YOE.																																																		
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18	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	26.7	106	81-110	N/A	Fair quality stand of mixed species, dominated primarily by white oak and white pine. Understory of white pine developing well with relatively dense pockets of white oak scattered throughout stand. Cycle trail reroute passes through stand.																																																					
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19	4126 - White, Black, N. Pin Oak	Sapling Medium	31.3	3	1-50	N/A	Regenerating stand consisting primarily of red maple and white oak saplings. Scattered white oak retained at time of recent harvest, less than 10BA. Fair amount of browse in some areas, also areas not yet filling in with regeneration, currently occupied with concentrated pockets of sedge. Scattered, trace jack pine and white pine saplings.																																																					
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20	3201 - Sweet Fern	None	2.2			No	Big clumps of sweetfern. Redtop (?) grass. Nice oaks surrounding opening. A couple holes, a patch of milkweed. Two-track goes around perimeter.																																																					
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21	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	56.3	56	81-110	N/A	Mixed stand, predominantly jack pine and white oak with smaller areas and/or inclusions of larger red and white pine. Fairly uniform, well stocked understood of white oak and white pine. North country trail and motorcycle trail transect stand.																																																					
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22	4126 - White, Black, N. Pin Oak	Poletimber Well	17.7	111	111-140	N/A	Fair quality oak stand with conifer component in overstory and developing in understory. White oak regeneration is prevalent in south and west portions of stand, not present in north and east or at trace levels. TS# 027-14. Partially cut but not completed. Buyer requested extension but did not return it.																																																					
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<b>23</b>	42290 - Natural Mixed Pine	Sawtimber Well	34.1	136	141-170	N/A	Mixed pine stand with scattered red oak and red maple throughout. Steep north facing slope to 22 creek RMZ, lowland soils in northern area of stand near creek, cedar and hemlock more common in this area of stand. NCT travels through stand, area commonly referred to as 'Valley of the Giants'.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Log	11		Balsam Fir	
Red Oak		10	Log	16		White Pine	
Northern White Cedar		5	Log/Pole	12		Hemlock	
White Pine		35	XLog/Log	18	136	<b>Density</b>	<b>Avg. Height</b>
Red Pine		40	Log	14	136		<b>Size</b>
<b>25</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	16.2	121	81-110	N/A	Natural pine/oak stand with larger red and white pine scattered throughout. Pole sized white pine and jack pine make up remainder of conifer canopy, white oak, red oak and red maple evenly distributed. Aspen is patchy, clone included in stand w/in southern lobe. Motorcycle trail traverses stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Log/Pole	10	81	White Oak	
Red Oak		5	Log/Pole	10		Balsam Fir	
White Oak		10	Log/Pole	12		White Pine	
Bigtooth Aspen		5	Pole/Log	8		<b>Density</b>	<b>Avg. Height</b>
White Pine		35	Log/Pole/XLog	14	121		<b>Size</b>
Red Pine		10	Log/Pole	12			
Jack Pine		20	Pole/Log	8			
<b>26</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	10.7	121	51-80	N/A	Oak stand retained when adjacent stand was cut and replanted. Recommend retaining stand for long term retention, at least 2 more entry years while red pine plantation fills in and matures.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		5	Pole	7		Red Maple	
Red Oak		30	Log	14		White Oak	
White Oak		60	Log/Pole	13	121	White Pine	
Jack Pine		5	Pole	8		<b>Density</b>	<b>Avg. Height</b>
<b>27</b>	6120 - Lowland Cedar	Sawtimber Well	29.0	106	111-140	N/A	Cedar stand with spruce/fir component throughout. Also large red and white pine scattered throughout stand, some very large diameter individual legacy trees. Some historic beaver activity along creek.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Log/Pole	12	101	Balsam Fir	
Yellow Birch		2	Pole	8		White Pine	
Balsam Fir		6	Pole	8		Hemlock	
Black Spruce		2	Pole	8		<b>Density</b>	<b>Avg. Height</b>
Northern White Cedar		58	Log/Pole	12	106		<b>Size</b>
White Pine		10	Log/XLog	14	136		
Red Pine		2	Log/XLog	14	136		
Hemlock		10	Log	14	106		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>28</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	17.3	106	51-80	N/A	Stand responding well from harvest, significant white oak regeneration from acorn and stump sprout origin, in fairly good condition, some areas browsed. Some slash from adjacent cut/plant treatment was placed in this stand as mentioned in previous comments, breaking down and currently providing a good source of course woody debris.  2020: Harvest 2020. Removed jack pine and poor formed oak and red maple. Lots of slash from surrounding stand left in this stand. State land posted. Contact from C.O. Signs taken down.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Log/Pole	12		White Pine		
White Oak		70	Log/Pole	13	106	Red Maple		
White Pine		20	Pole	7		White Oak		
						<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
						Medium	10 - 20 feet	10 - 20 feet
						Low	5 - 10 feet	5 - 10 feet
						High	5 - 10 feet	5 - 10 feet
<b>29</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.9	81	51-80	N/A	Small flat between more entirely upland stands and the 22 creek corridor. Mainly upland but some lowland areas and high water table in spots. Jack pine has fallen out of stand, aspen is deteriorating a bit.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		35	Log/Pole	12	81	Balsam Fir		
Red Oak		5	Log/XLog	14	106	White Pine		
White Oak		15	Log	14	96			
Bigtooth Aspen		30	Log	14	81			
Balsam Fir		5	Pole	7				
White Pine		5	Log	14				
Red Pine		5	Log	14	111			
						<b>Density</b>		<b>Avg. Height</b>
						Medium	5 - 10 feet	5 - 10 feet
						Medium	Variable	Variable
<b>30</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	7.8	91	81-110	N/A	Steep north facing slope leading to 22 Creek, majority too steep to harvest and lower elevation more level portion of stand falls within riparian management zone. Some beaver activity closer to creek. Red oak is fairly nice quality.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		20	Log/Pole	10	76	Balsam Fir		
Red Oak		10	Log/XLog	14	106	White Pine		
White Oak		5	Log	14	106			
Quaking Aspen		20	Log/Pole	16	91			
Bigtooth Aspen		20	Log	14	91			
White Pine		10	Log	12	81			
Red Pine		10	Log	12	81			
Jack Pine		5	Log	10	81			
						<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
						Medium	Variable	Variable
						Low	5 - 10 feet	5 - 10 feet
<b>31</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	20.5	17	Immature	N/A	Featured regen as canopy but scattered oak and pine in overstory retained at time of last harvest. Aspen more of a significant component in central/western area of stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		14	Sapling	2	17			
Red Oak		20	Sapling	1	17			
White Oak		30	Sapling	1	17			
White Oak		3	Log	12	92			
Bigtooth Aspen		20	Sapling	2	17			
White Pine		10	Sapling	1				
Red Pine		3	Log	12				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>33</b>	42110 - Planted Red Pine	Sapling Well	118.9	4	Immature	N/A	2025 - Year 3 regeneration check was completed 9/24/2025. There are currently 895 Tree Per Acre and stand is 87% free to grow.2023 - Stands year 1 regeneration check was completed 9/13/2023. Stand currently has 890 Trees per Acre and is 98% Free to Grow at this time. 2023 - Stand was planted to red pine, 935 TPA. Some scattered white oaks left in stand.2022 - July 2022 Stand was Site Prep Sprayed with Contract Helicopter Contracted Trenched Spring 2021.Harvested 2020. Chipped and cleared to prep site for planting. Good bit of oak and rm sprouting places. Trench and spray 2021 if possible.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
White Oak		7	Sapling	1				
Red Pine		87	Sapling	1	4			
Jack Pine		6	Sapling	1				
<b>34</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	15.9	91	111-140	N/A	Aspen stand with pine and oak throughout. Some variability in species composition, areas where pine/oak are more prevalent but overall considered aspen stand. SW facing slope is steep, potentially operable in spots but base of slope is essentially at RMZ of creek and NCT, motorcycle trail also traverses stand at top of ridge.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		5		9	51			
Red Oak		5	Log	14	121			
White Oak		5	Log	16	121			
Bigtooth Aspen		45	Log	12	91			
White Pine		25	Log/Pole/XLog	12	91			
Red Pine		15	Log	16	121			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
White Oak		Low	10 - 20 feet	10 - 20 feet				
Balsam Fir		Medium	5 - 10 feet	5 - 10 feet				
White Pine		Medium	Variable	Variable				
Red Oak		Low	10 - 20 feet	10 - 20 feet				
<b>35</b>	3201 - Sweet Fern	None	1.7			No	Another nice sweetfern opening. Blown-over pine blocks access. Leave as-is. Couple nice snags NW corner.	
<b>36</b>	4310 - Pine, Oak Mix	Sawtimber Well	26.4	106	141-170	N/A	Oak, pine stand of natural origin, some large trees throughout stand. Advanced understory of primarily white pine developing, also intermediate canopy of white pine, white oak and red maple in areas of stand. Jack pine scattered throughout stand, low density, fair quality.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		10	Log/Pole	10				
Red Oak		5	Log	14				
White Oak		30	Log	12	106			
Bigtooth Aspen		2	Pole	6				
Northern Pin Oak		5	Log/Pole	14				
White Pine		25	Log/Pole	13				
Red Pine		20	Log	10	71			
Jack Pine		3	Log/Pole	10				
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
White Oak		Low	10 - 20 feet	10 - 20 feet				
Red Maple		Low	10 - 20 feet	10 - 20 feet				
Red Oak		Low	10 - 20 feet	10 - 20 feet				
White Pine		High	10 - 20 feet	10 - 20 feet				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**37** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 25.9 17 1-50 N/A Mixed stand of regen consisting mainly of jack pine and white oak resulting from 2009 harvest, scattered white oak, red pine and white pine overstory retained, also featured in canopy species.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	13	Sapling	1	
White Oak	45	Sapling	1	17
White Oak	3	Log	12	92
White Pine	2	Pole	8	
White Pine	5	Sapling	1	
Red Pine	2	Pole/Log	9	
Red Pine	2	Sapling	1	
Jack Pine	25	Sapling	1	
Black Cherry	3	Sapling	1	

**38** 4130 - Aspen Sapling Well 5.4 28 Immature N/A Regenerating aspen stand, converting from sapling to pole, will be small pole next yoe. White Pine and jack pine present in southern portion of stand. Trace pine oak in stand as well, retained at time of last harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3	28	White Pine	Low	5 - 10 feet	5 - 10 feet
White Oak	2	Sapling	2	28				
Bigtooth Aspen	77	Sapling/Pole	4	28				
White Pine	2	Sapling	3					
Jack Pine	9	Sapling/Pole	4					
Black Cherry	5	Sapling	3	28				

**39** 4199 - Other Mixed Upland Deciduous Sapling Well 14.9 28 201+ N/A Mixed regen throughout, primarily aspen, white oak and red maple resulting from 1998 harvest. Retained overstory of pine and white oak is featured in canopy as well, averaging ~10 ba overall, slightly less in many areas of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	28
Red Oak	10	Sapling	1	28
White Oak	25	Sapling	1	28
White Oak	5	Log	12	
Bigtooth Aspen	25		3	28
Northern Pin Oak	5	Log	15	
White Pine	5	Sapling	2	
Jack Pine	5	Sapling	2	

**40** 3201 - Sweet Fern None 2.1 No Nice sweetfern opening.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Trace	10 - 20 feet	10 - 20 feet
Bracken Fern	Trace	Not Applicable	Not Applicable
Sweet Fern	High	5 - 10 feet	5 - 10 feet
Little Bluestem	Medium	Not Applicable	Not Applicable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>41</b>	4126 - White, Black, N. Pin Oak	Sapling Well	54.6	10	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	
White Oak	53	Sapling	1	10
White Oak	10	Log	12	92
White Pine	2	Log/Pole	12	
Red Pine	5	Log/Pole	10	
Jack Pine	15	Sapling	1	

<b>42</b>	4122 - Oak, Pine	Sawtimber Poor	55.5	90	51-80	N/A	Stand resulting from seed tree harvest in 2009, full stocking of mixed regen, mainly white oak and jack pine. White oak, red pine and white pine make up scattered retention from harvest, featured in canopy but this is a two aged stand with generally full stocking of regenerating species surrounding seed tree retention.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Log	13	
White Oak	60	Log	13	90
White Pine	10	Pole/Log	9	
Red Pine	20	Log/Pole	11	
Jack Pine	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	10 - 20 feet	10 - 20 feet
Jack Pine	High	10 - 20 feet	10 - 20 feet
Red Maple	Medium	10 - 20 feet	10 - 20 feet
White Oak	High	10 - 20 feet	10 - 20 feet

<b>43</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	5.4	36	1-50	N/A	Old well site or opening filling in with regeneration, also some scattered larger trees around perimeter. ~30-40% canopy closure overall, variable size classes.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	36
Red Oak	5	Log/Pole	12	
Bigtooth Aspen	20	Sapling	3	
White Pine	5	Log	12	
White Pine	10	Sapling/Pole	4	36
Jack Pine	50	Sapling/Pole	4	36

<b>44</b>	4310 - Pine, Oak Mix	Poletimber Well	83.9	31	1-50	N/A	Uniform canopy coverage consisting primarily of jack pine pole/sap sized regeneration along with white pine, white oak and lower stocking of additional species - this regen appears to have been released at time of harvest which took place in 2010, originally resulting from a harvest in 1994. In addition, scattered red pine, white oak and white pine throughout remaining from last harvest. Jack pine averages small pole of ~5" but is pole/saplings in size.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	3	
Red Oak	10	Log/Pole	10	
White Oak	10	Log/Pole	12	
Bigtooth Aspen	5	Sapling	3	
White Pine	2	Pole/Sapling	5	
Red Pine	13	Log/Pole	12	84
Jack Pine	40	Pole/Sapling	5	31
Black Cherry	15	Sapling	3	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**45** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 33.9 106 51-80 N/A Mixed upland stand, some variability in species composition with pockets heavier to pine component, areas of more concentrated white oak and also aspen clones present. Jack pine and red maple uniformly distributed throughout. White oak regen concentrated in areas where oak is more prominent.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Red Oak	10	Log	13	
White Oak	35	Log	14	106
Bigtooth Aspen	10	Pole/Log	8	
White Pine	20	Pole/Log	9	66

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Medium	5 - 10 feet	5 - 10 feet
White Pine	Medium	10 - 20 feet	10 - 20 feet

**46** 110 - Low Intensity Urban None 2.9 No Oil well site. Has a cap on the pipe.

Sub-Canopy Species	Density	Avg. Height	Size
St. Johns Wort	Medium	Not Applicable	Not Applicable
Little Bluestem	Low	Not Applicable	Not Applicable
Sweet Fern	Medium	5 - 10 feet	5 - 10 feet
Spotted Knapweed	Low	Not Applicable	Not Applicable
Mixed Grasses	Medium	Not Applicable	Not Applicable

**47** 6139 - Mixed Lowland Forest Sawtimber Well 39.4 91 111-140 N/A Lowland/upland stand, includes creek bottom and RMZ along with slope to creek, specifically along southern edge of stand where more upland is included but is essentially the same stand and will be included in hard-factored area.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	5	
White Oak	10	Log/Pole	12	
Quaking Aspen	10	Log/Pole	10	
Bigtooth Aspen	10	Log/Pole	10	
Black Spruce	10	Pole	8	
Northern White Cedar	10	Log/Pole	10	
White Pine	20	Log	14	91
Jack Pine	5	Pole	8	
Black Cherry	5	Pole/Sapling	5	

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

**48** 42250 - Pine, Oak Sawtimber Poor 58.7 76 1-50 N/A Stand is a mix of primarily red pine and white oak making up the overstory from a seed tree harvest in 2010 - overstory species are featured thus the 25-50% canopy closure identified. Understory recruiting well, mainly consisting of jack pine, white oak and red and white pine at lower densities, some of which was released from harvest, other areas of ~14 year old regen. BA of red pine and white oak averages about 35 BA with some pockets slightly higher mainly along Mayfield rd, other areas are not stocked with merchantable timber but have very dense regen.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Red Oak	5	Log	12	
White Oak	25	Log/Pole	12	
White Pine	10	Log/Pole	12	
Red Pine	45	Log	13	76
Jack Pine	5	Log/Pole	10	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>49</b>	42260 - Natural Pine, Mixed Deciduous	Sapling Well	262.7	18	Immature	N/A	Mixed stand regenerating from harvest in 2007, generally dominated by jack pine with white oak, red maple and cherry present as well. Scattered retention mainly consisting of white oak and red pine, some trace jack pine and balsam fir poles present as well.																																													
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<b>50</b>	6233 - Wet Meadow	None	4.9			No	Twenty two creek runs through. Cedar is dead and dying. Mostly sedges with traces of fern and other forbs.																																													
<b>51</b>	4126 - White, Black, N. Pin Oak	Sawtimber Poor	8.2	121	1-50	N/A	Stand resulting from 2018 harvest, some trace regen, overstory oak retained, oak barrens type stand. NCT traverses stand.																																													
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<b>52</b>	4319 - Mixed Upland Forest	Sapling Well	28.1	18	Immature	N/A	Mixed stand, regenerating well following harvest. Retained white oak and red pine in good condition. Regen is variable in terms of species composition, appears jack pine is dominant in general with pockets of white oak and aspen also quite prevalent.																																													
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<b>53</b>	6220 - Alder/Willow	None	14.5			No																																														
<b>54</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	6.0	16	Immature	N/A	Red pine that was planted growing well and pockets are free to grow, however significant variability in stocking and species composition. Developing into mixed stand overall with pockets of aspen, jack pine, red maple and cherry. Some browsed white oak present as well.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
55	3104 - Degraded	None	1.3			No	Old well site, beginning to fill in with conifer and deciduous species. Could probably include in Carpenter Creek burn complex at this time, not sure of current ground cover and/or if this area is degraded/bare soil.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Spotted Knapweed	Full	Not Applicable	Not Applicable	
								Sweet Fern	Low	5 - 10 feet	5 - 10 feet	
								Jack Pine	Trace	5 - 10 feet	5 - 10 feet	
56	6233 - Wet Meadow	None	3.1			No	Sedge meadow. Evidence of an old beaver flooding.					
57	4112 - Maple, Beech, Cherry Association	Sapling Poor	6.3	3	1-50	N/A	Lightly stocked multi-part stand resulting from dieback pockets that were harvested following 2020 red pine thinning. Mainly deciduous regen but some white pine and trace red pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	40	Sapling	1	3
								Beech	15	Sapling	1	3
								White Pine	5	Sapling	1	3
								Black Cherry	40	Sapling	2	3
58	4310 - Pine, Oak Mix	Sapling Medium	1.7	21	Immature	N/A	Small mixed species stand, regen resulting from harvest 30 years ago, overstory oak present.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	20	Log	12	106
								White Oak	20	Log	12	106
								White Pine	30	Sapling	2	21
								Jack Pine	20	Sapling	1	21
Black Cherry	10	Sapling	1	31								
60	4310 - Pine, Oak Mix	Sawtimber Well	5.4	106	111-140	N/A	Large oak and pine island within larger plantation area established in recent years. Recommend for long term retention, at least until red pine is established and further develops.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	20	Log/XLog/Pole	16	106
								White Oak	30	Log/XLog/Pole	16	106
								White Pine	30	Log/Pole	12	66
								Red Pine	10	Log/Pole	12	66
								Jack Pine	10	Log/Pole	10	66
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	5 - 10 feet	5 - 10 feet	
								Red Maple	Low	5 - 10 feet	5 - 10 feet	
62	4133 - Aspen, Mixed Pine	Sapling Well	1.6	31	Immature	N/A	Primarily aspen and red maple regen along with scattered oak and older pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Sapling	2	31
								Red Oak	2	Log/Pole	12	106
								White Oak	3	Log	14	106
								Bigtooth Aspen	63	Sapling/Pole	3	31
								Balsam Fir	2	Sapling	2	
								White Pine	20	Sapling	2	21
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Medium	5 - 10 feet	5 - 10 feet	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**63** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 2.4 91 111-140 N/A Small stand, majority lowland with upland edges. Dense understory of balsam in spots, some large cedar present. 22 Creek flows through center of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log	12	
Red Oak	2	Log/Pole	12	
White Oak	1	Log	12	
Paper Birch	15	Log/Pole	10	
Bigtooth Aspen	5	Log/Pole	12	
Balsam Fir	15	Pole	8	
Northern White Cedar	35	Log/Pole	12	91
White Pine	15	Log/Pole	12	91
Black Ash	2	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
White Pine	Medium	10 - 20 feet	10 - 20 feet
Red Maple	Medium	10 - 20 feet	10 - 20 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet

**64** 330 - Low-Density Trees None 245.4 Yes Carpenter Creek Rx burn area.

**65** 3201 - Sweet Fern None 2.7 No Old well site, slowly seeding in with jack pine. Retained previous species composition.

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	High	Not Applicable	Not Applicable
St. Johns Wort	Medium	Not Applicable	Not Applicable
Cladonia (Reindeer moss)	Trace	Not Applicable	Not Applicable
Jack Pine	Low	5 - 10 feet	5 - 10 feet
Autumn Olive	High	5 - 10 feet	5 - 10 feet
Sweet Fern	High	5 - 10 feet	5 - 10 feet

**67** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 84.5 16 81-110 N/A Stand consists of dense regen, 10-20' in height resulting from 2009 harvest. Scattered red pine along with white oak and a few red oak retained at time of harvest. Red pine that was planted in 2011 is patchy, some uniform areas where it's free to grow and others where it is present but over topped - in general this is a mixed stand with white oak dominant at this stage of inventory. Should develop into a nice mixed stand, fully stocked. TS# 072-07. Harvested fall 2009. Planted spring 2011. Planted red pine with oak, jp, aspen, rm, wp, ba that started after harvest. Retention of log sized oak and pine from last treatment. Heavy browsing on oak but some is growing through. Good pine site but also good deciduous mix coming in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	16
Red Oak	2	Log/XLog	16	
Red Oak	10	Sapling	1	16
White Oak	30	Sapling	2	16
White Oak	3	Log	13	92
Quaking Aspen	5	Sapling	1	16
White Pine	5	Sapling	1	
Red Pine	17	Sapling	2	15
Red Pine	3	Log	11	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>68</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	16.3	139	111-140	N/A	Large, old white pine and oak along with scattered old red pine distributed throughout - aspen has filled in with wp, jp, rm, aspen, 45 years old. Jack pine more prevalent in western tip of stand. Topographically stand is generally 2-5' above creek bed, some lowland influence in areas of stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Pole/Log	9	66	Balsam Fir		Low	5 - 10 feet	5 - 10 feet	
Red Oak		5	XLog/Log	18		Red Maple		Medium	5 - 10 feet	5 - 10 feet	
White Oak		5	Log/XLog	14		White Pine		Medium	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		5	Log	14							
Balsam Fir		5	Pole	6							
White Pine		40	XLog/Log/Pole	18	139						
Red Pine		15	Log/XLog/Pole	16							
Jack Pine		10	Log	12							

<b>69</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	67.9	16	1-50	N/A	Mixed stand with dense, mixed species, specifically white oak, jack pine, white pine and evenly distributed red maple and aspen - this advanced regen averages 10-25' in height. Red pine, white pine and white oak along with some red oak make up retained overstory from last harvest, featured with advanced regen as overall canopy. Witch hazel and white pine filling in under advanced regen, 3-6' in height.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Sapling	1	16	White Pine		Medium	5 - 10 feet	5 - 10 feet	
Red Oak		3	Log	15		Witch Hazel		Low	5 - 10 feet	5 - 10 feet	
Red Oak		5	Sapling	1	16						
White Oak		20	Sapling	2	16						
White Oak		5	Log	14	92						
Bigtooth Aspen		25	Sapling	2	16						
White Pine		10	Sapling	2	16						
White Pine		2	Log	15							
Red Pine		5	Log/Pole	14							

<b>70</b>	4311 - Pine, Aspen Mix	Poletimber Well	22.1	36	51-80	N/A	Mixed stand, consisting mainly of white pine of somewhat variable dbh, averages 6-8", along with aspen averaging ~5-6" dbh with some variability. In addition, red pine, white oak and red oak present along with jack pine and red maple. Some dense pockets of white oak regeneration, mainly where white pine is not as dense.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		8	Pole/Sapling	5	71	Witch Hazel		Low	5 - 10 feet	5 - 10 feet	
Red Oak		5	Log	14	106	Red Pine		Low	< 5 feet	< 5 feet	
White Oak		5	Log/Pole	14	106	White Oak		Medium	10 - 20 feet	10 - 20 feet	
Bigtooth Aspen		25	Pole/Sapling	5	36	White Pine		Low	< 5 feet	< 5 feet	
Northern Pin Oak		2	Log/Pole	13	106	Jack Pine		Low	< 5 feet	< 5 feet	
White Pine		45	Pole/Sap/Log	6	36	Black Cherry		Low	5 - 10 feet	5 - 10 feet	
Red Pine		5	Pole	7	76						
Jack Pine		5	Pole/Sapling	5	36						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
<b>71</b>	42110 - Planted Red Pine	Sawtimber Well	132.3	95	81-110	N/A	Red pine stand with white oak and red oak present in canopy, most notably in south and north portions of stand. Red pine is decent quality, looks to be two aged with trace, plate bark and occasionally fire scarred red pine, larger than average red pine common throughout stand. Understory ~25 years in age advancing well into lower canopy. Made up of a diverse mix of species including jack pine (thick in areas), white oak, red pine, white pine, red maple and aspen. Canopy closure estimated at 75% overall, some pockets slightly lower while others are closer to 100%. Ba is variable but averages ~100. Planting records show this stand was planted in 1931, previously identified as a natural pine stand.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Red Oak		5	Log	14	106	Red Oak		Low	5 - 10 feet	5 - 10 feet		
White Oak		5	Log	14	106	White Oak		Medium	10 - 20 feet	10 - 20 feet		
Red Pine		90	Log/Pole	11	95	White Pine		Medium	Variable	Variable		
						Jack Pine		Medium	10 - 20 feet	10 - 20 feet		
						Red Maple		Medium	10 - 20 feet	10 - 20 feet		
						Bigtooth Aspen		Low	10 - 20 feet	10 - 20 feet		
<b>72</b>	4310 - Pine, Oak Mix	Sapling Well	12.8	16	Immature	N/A		Heavier aspen sprouting in south end over topping planted red pine. Planted red pine still surviving but generally topped by oak, maple and aspen sprouts. Scattered oak and red pine log sized retention age 95.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Maple		10	Sapling	1	16	Witch Hazel			Low	5 - 10 feet	5 - 10 feet	
Red Oak		10	Sapling	1	16							
White Oak		20	Sapling	1	16							
Bigtooth Aspen		15	Sapling	1	16							
White Pine		5	Sapling	1								
Red Pine		30	Sapling	1	16							
Jack Pine		10	Sapling	1	16							
<b>73</b>	42250 - Pine, Oak	Sawtimber Poor	6.2	102	1-50	N/A	Good quality, large overstory red and white pine retained at time of last harvest along with scattered single stem white oak. Advanced regen released at time of harvest is growing well and new cohort of regen is established, mainly from stump sprouts. Retained overstory featured as canopy. 2020: edge call after last harvest. Verify at inventory.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Red Oak		20	Log	16	106	White Pine		Medium	10 - 20 feet	10 - 20 feet		
White Oak		20	Log	16	106	Red Pine		Low	5 - 10 feet	5 - 10 feet		
White Pine		30	Log/Pole	12	102	Red Maple		Low	5 - 10 feet	5 - 10 feet		
Red Pine		30	Log	16	106	White Oak		High	10 - 20 feet	10 - 20 feet		
<b>74</b>	4310 - Pine, Oak Mix	Sawtimber Well	8.6	106	81-110	N/A		Large white oak with other canopy species filling in, likely resulting from past harvest or disturbance. White Pine medium density in understory with red maple and white oak filling in.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Oak		10	Log/XLog	14	106	White Pine			Medium	5 - 10 feet	5 - 10 feet	
White Oak		38	Log	15	106	White Oak			Medium	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		10	Pole	8	61	Red Maple			Low	>20 feet	>20 feet	
White Pine		20	Pole/Log	8	61							
Red Pine		2	Log	14	106							
Jack Pine		20	Pole/Log	9	61							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**77** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 21.5 91 111-140 N/A Low area along drainage, low stocking in areas specifically in NW. Some historic beaver activity, stand is generally lowland but includes slopes leading to upland as part of RMZ.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Paper Birch	10	Log/Pole	12	
Bigtooth Aspen	10	Log/Pole	11	
Balsam Fir	10	Pole	9	
Black Spruce	10	Pole	9	
Northern White Cedar	25	Log/Pole	12	91
White Pine	15	Log	14	
Black Ash	10	Pole	8	71

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet

**78** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 51.2 106 111-140 N/A Mixed pine oak stand with scattered aspen and red maple. Pockets of dense regen and other areas where regen is lighter or more mid canopy white pine are present. Pockets of very large white and red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Pole/Log	8	74
Red Oak	35		18	106
White Oak	15	Log	16	106
Bigtooth Aspen	10	Log/Pole	10	71
White Pine	15	Log/Pole	14	
Red Pine	15	Log/Pole	12	74

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

**79** 4310 - Pine, Oak Mix Poletimber Well 16.4 66 81-110 N/A Pine oak stand with some stocking and species composition variability throughout. Jack pine is more of a component in northern half. Regen, specifically white pine and white oak is dense in spots. Aspen is uniformly distributed throughout with some denser pockets, overall fair quality but a bit suppressed. Should regenerate well.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	66
Red Oak	5	Log	14	106
White Oak	20	Log	14	106
Bigtooth Aspen	15	Log	12	66
White Pine	25	Pole/Log	8	66
Red Pine	15	Pole/Log	8	66
Jack Pine	15	Pole/Log	9	66

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

**80** 42250 - Pine, Oak Sawtimber Medium 7.5 86 1-50 N/A Split off from stand 90 which was harvested under TS# 059-16. Records show this stand was harvested by timber trespass (adjacent private property), approximately 6 acres. (old notes) their cutting line drifted to the west after a good start in the SE corner of the state land. Good aspen regeneration on the part that was harvested in the spring.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	13	
Red Oak	20	Log	14	86
White Oak	10	Log	12	
White Pine	25	Log	14	84
Red Pine	35	Log/Pole	13	86

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	High	< 5 feet	< 5 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet
White Pine	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**81** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 28.5 17 1-50 N/A Mixed stand of deciduous regen with white pine also present throughout. Red pine, white pine and white oak overstory retained last harvest. 2019: TS#063-17. Removed most over story to release advanced regen in understory. Scattered retention of pine oak and maple. Canopy call on age class that developed after 2009 harvest. Verify at next inventory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	16	Sapling	1	17
Red Oak	15	Sapling	1	17
White Oak	20	Sapling	1	17
White Oak	2	Log/Pole	13	
Bigtooth Aspen	20	Sapling	1	17
White Pine	2	Log/Pole	14	
White Pine	18	Sapling	1	17
Red Pine	2	Log/Pole	12	81

**82** 4133 - Aspen, Mixed Pine Poletimber Well 12.0 56 81-110 N/A Aspen stand with pine component, specifically red pine. Variable stocking in northern portion of stand, better quality and stocking in southern 2/3 of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Red Pine	Low	5 - 10 feet	5 - 10 feet
White Oak	5	Log/Pole	14	106	White Pine	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	30	Pole	8	56	Jack Pine	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	30	Pole/Log	8	56				
White Pine	10	Pole/Sapling	5					
Red Pine	10	Log/Pole	10					
Jack Pine	10	Pole	8	56				

**83** 2113 - Forage Crops None 3.4 No Maintained opening, scattered islands of primarily deciduous trees throughout.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	>20 feet
Red Oak	Low	>20 feet	>20 feet
Rye (annual)	Full	Not Applicable	Not Applicable

**84** 4130 - Aspen Sapling Well 20.4 17 1-50 N/A Very good aspen regen with scattered oak and pine retention. Some decent red maple and white pine regen present as well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2	17	White Pine	Medium	< 5 feet	< 5 feet
Red Oak	2	Sapling	1	17	Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
White Oak	5	Sapling	1	17				
Bigtooth Aspen	69	Sapling	2	17				
White Pine	10	Sapling	2					
Red Pine	2	Sapling	3					
Black Cherry	2	Sapling	1	17				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
<b>85</b>	4311 - Pine, Aspen Mix	Poletimber Well	9.9	56	81-110	N/A	Mix of wp and aspen grown in among residual pine and oak. White pine is heavier stocking on west side with aspen more prominent in east.																																																													
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<b>86</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.4	91	81-110	N/A	Red and white pine stand with aspen distributed throughout. Scattered red maple, oak and jack pine distributed throughout as well. Orv/cycle trail in stand.																																																													
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<b>87</b>	42290 - Natural Mixed Pine	Sawtimber Well	13.2	125	81-110	N/A	Predominantly white and red pine stand with oak and red maple more prevalent in eastern portion of stand. White Pine and red pine are quite large especially in western 2/3 of stand, natural origin and many legacy sized trees throughout of both species. Cored representative white pine at 124 age, could be slightly older.																																																													
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<b>90</b>	42250 - Pine, Oak	Sawtimber Poor	14.2	86	1-50	N/A	Aspen regenerating very well along with white pine and red maple. Retained overstory featured as canopy species, in good condition at this time. Stand is providing good early successional cover along with vertical structure.																																																													
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<b>91</b>	4311 - Pine, Aspen Mix	Poletimber Well	24.1	56	81-110	N/A	Pole sized aspen stand with two aged natural origin white pine. Pole sized class concentrated in western portion of stand while larger super canopy trees are evenly distributed throughout. Aspen is small dbh for age, some size and stocking variability. Need to confirm age of aspen. High water table in some small areas, looks to be a seasonal drain separating main portion of stand from NW lobe. NW portion of stand is where red pine is located.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole	8	56	White Pine		
Bigtooth Aspen		45	Pole	7	56	Medium		
White Pine		25	XLog/Log	20	121	Avg. Height		
White Pine		10	Pole/Sapling	7		5 - 10 feet		
Red Pine		5	Log/XLog	15		Size		
Jack Pine		5	Pole/Log	9	86	>20 feet		
<b>92</b>	4133 - Aspen, Mixed Pine	Poletimber Well	21.8	56	111-140	N/A	Aspen stand with white pine throughout, specifically pockets of higher density advanced saplings/small poles. Some aspen falling out of stand. Pockets of good quality aspen and more uniform stocking.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Pole	8		White Pine		
Red Oak		2	Log	14	96	Medium		
White Oak		2	Log	14	91	Variable		
Quaking Aspen		45	Pole	8	56	Avg. Height		
Bigtooth Aspen		10	Pole	8	56	5 - 10 feet		
White Pine		30	Pole/Log	8	56	Size		
Red Pine		2	Log	14	96	5 - 10 feet		
Jack Pine		4	Pole/Sapling	6				
<b>93</b>	6239 - Mixed Emergent Wetland	None	10.6			No	Area of blowdown, or flooded and overstory died and fell over. Some dead standing, scattered red maple alive w/in stand.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Cattail spp.		Medium	Not Applicable	Not Applicable				
Mixed Grasses		Medium	Not Applicable	Not Applicable				
White Pine		Trace	>20 feet	>20 feet				
Willow spp.		Trace	5 - 10 feet	5 - 10 feet				
Bulrush		Trace	Not Applicable	Not Applicable				
Alder		Trace	5 - 10 feet	5 - 10 feet				
<b>94</b>	2113 - Forage Crops	None	6.2			Yes	Maintained opening, scattered islands/individual retention trees throughout.	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Rye (annual)		Full	Not Applicable	Not Applicable				
White Pine		Low	>20 feet	>20 feet				
White Oak		Low	5 - 10 feet	5 - 10 feet				
Red Oak		Low	>20 feet	>20 feet				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>95</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	26.3	106	111-140	N/A	Generally lowland stand with some hummocky areas and small upland inclusions less than .5 ac. Some large white pine throughout especially along west and nw edge. Some large cedar as well, pockets of blowdown. Numerous seeps leading northward to creek.																																																								
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<b>96</b>	429 - Mixed Upland Conifers	Sawtimber Well	9.2	119	171-200	N/A	Large "old Growth" natural pine stand with deciduous component throughout, primarily in eastern lobe. Western finger is more uniform pine stocking. Larger aspen is beginning to die out forming nice standing snags. Stick nest in large aspen in eastern area of stand. High water table influence in stand adjacent to stand 95/Q-type. Recommend keeping in natural state. Trace red oak in canopy.																																																								
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<b>98</b>	42110 - Planted Red Pine	Sawtimber Well	41.8	66	111-140	N/A	Decent quality red pine stand, recently thinned and responding well overall. Dieback pockets and buffer were cut out of stand in 2023. Scattered beech, balsam fir and white pine scattered throughout understory. Current BA averages 140 square ft/ac.																																																								
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<b>99</b>	4113 - R.Maple, Conifer	Sawtimber Well	3.6	91	81-110	N/A	High water table influence in much of stand, mix of red maple with cedar, hemlock and balsam fir. White Pine present as well. Stand provides nice pockets of thermal cover at northern edge of regenerating aspen stand. Some blow down throughout providing good source of course woody debris.																																																								
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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>100</b>	31022 - Warm Season Grass	None	12.4			No	Fire-break between red pine stands, slowly filling in with white pine, red pine and jack pine saplings, advanced regen size. On the cusp of 25-50% canopy closure. If/when red pine plantations are restarted, recommend replanting this area with plantation area to make one contiguous plantation.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	Medium	10 - 20 feet	10 - 20 feet
								Poverty Grass	Medium	Not Applicable	Not Applicable
								Spotted Knapweed	Trace	Not Applicable	Not Applicable
								White Pine	Medium	10 - 20 feet	10 - 20 feet
								Jack Pine	Medium	10 - 20 feet	10 - 20 feet
								Little Bluestem	Medium	Not Applicable	Not Applicable
								Cladonia (Reindeer moss)	Medium	Not Applicable	Not Applicable
Bracken Fern	Medium	Not Applicable	Not Applicable								

<b>103</b>	122 - Road/Parking Lot	None	3.2			No	
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<b>104</b>	31022 - Warm Season Grass	None	27.2			No	Clumps of pine & upland deciduous. Lots of little bluestem. Old homestead site SE side with walnut and apple trees, also surrounded by larger, open grown sugar maple.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Deciduous Saplings	Low	10 - 20 feet	10 - 20 feet
								Little Bluestem	Full	Not Applicable	Not Applicable
								Spotted Knapweed	Low	Not Applicable	Not Applicable
								Cladonia (Reindeer moss)	Low	Not Applicable	Not Applicable
								Bracken Fern	Low	Not Applicable	Not Applicable
								White Pine	Low	10 - 20 feet	10 - 20 feet
								Jack Pine	Low	10 - 20 feet	10 - 20 feet

<b>105</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	33.6	91	141-170	N/A	Mostly lowland, hummocky ground with some small areas of upland inclusions, specifically in NW portion of stand. Looks like it was possibly an old well pad? Mixed pine present in this area of stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	12	91	Black Spruce	Medium	5 - 10 feet	5 - 10 feet
Paper Birch	5	Pole/Log	8		Northern White Cedar	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	5	Log	12		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Log	12	91				
Black Spruce	5	Pole	8					
Northern White Cedar	35	Log/Pole	10	91				
White Pine	10	Log/Pole	10	91				
Hemlock	5	Log	12					

<b>106</b>	42110 - Planted Red Pine	Sawtimber Well	25.6	69	111-140	N/A	Stand responding well to recent thinning in 2020, stocking consistent throughout averaging ~130BA. Die back pockets in north and south areas of multi part stand. *merge 106 & 108.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	14	69	Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Pine	95	Log/Pole	10	69	Beech	Low	5 - 10 feet	5 - 10 feet
					Red Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
<b>107</b>	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	6.2	21	1-50	N/A	Red pine growing well although variable stocking in much of stand. Transitioning from sapling to pole sized, fair amount of merchantable sized stems but determined average dbh to be 4". Good growth rates overall, some jack pine mixed in along with a fair amount of cherry in areas where red pine did not survive.																																																																								
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<b>109</b>	4133 - Aspen, Mixed Pine	Poletimber Well	24.4	37	1-50	N/A	Aspen small pole/large sapling stand with substantial white pine component specifically in SE area of stand adjacent to lowland type. Some high water table and hummocks in this area, aspen was either outcompeted by white pine or did not regenerate due to wet soils in this portion of stand.																																																																								
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<b>110</b>	42290 - Natural Mixed Pine	Poletimber Well	16.6	57	81-110	N/A	JP and WP that has been slowly seeding in to pockets. A few red pine poles. Various age classes resulting. Most is getting to a merchantable size. Large weeviled white pine scattered around along with some bushy open grown beech and trace aspen of poor quality. Small aspen clone at northern tip of stand. A few log sized red oak and maple. Portions of stand along east edge have planted red pine in the smaller pole class.																																																																								
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<b>111</b>	4319 - Mixed Upland Forest	Sapling Medium	8.2	7	81-110	N/A	Regenerating stand with residual overstory white and red pine retained from last harvest. Slowly filling in, some areas of light regen along with areas where red maple has been browsed.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>112</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	9.0	91	141-170	N/A	Lots of deer activity in stand, dense lowland conifer overstory providing good thermal cover. Hummocky ground, generally lowland throughout.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		40	Log	14	91	Balsam Fir		
Yellow Birch		5	Log/Pole	10	71	Black Spruce		
Black Spruce		5	Pole	8	81	Northern White Cedar		
Northern White Cedar		35	Log/Pole	10	91	Density		
White Pine		5	Log/Pole	12	71	Avg. Height		
Hemlock		10	Log/Pole	12	81	Size		
<b>113</b>	4133 - Aspen, Mixed Pine	Sapling Well	4.4	17	1-50	N/A	Stand regenerating very well, good quality aspen, red maple and white lines stems throughout. Retention from last harvest in good condition with oak continuing to provide good mast source.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Sapling	2	17	Density		
Red Oak		5	Sapling	1	17	Avg. Height		
White Oak		5	Log	14	91	Size		
Quaking Aspen		10	Sapling	2	17			
Bigtooth Aspen		50	Sapling	2	17			
White Pine		10	Log	14	91			
White Pine		15	Sapling	2				
<b>114</b>	4133 - Aspen, Mixed Pine	Poletimber Well	3.9	56	141-170	N/A	Previously typed as Natural Pine, switched to planted, planting records show N1/2 of NE was planted in 1931. Pine was either thinned heavily in this area or the original plantation failed after 20-30 years allowing aspen and red maple to become the dominant overstory. Aspen pole/small log size.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		18	Pole/Log	9		Red Maple		
Red Oak		2	Log	16		Balsam Fir		
Bigtooth Aspen		50	Pole/Log	8	56	Beech		
White Pine		25	Log/Pole/XLog	14	95	White Pine		
Red Pine		5	Log/Pole	12	95	Density		
						Avg. Height		
						Size		
<b>115</b>	4130 - Aspen	Poletimber Well	15.1	31	51-80	N/A	Decent quality aspen stand, aspen averaging just merchantable dbh, typed stand as pole with aspen having 5" average dbh overall. Plenty of stems large sapling sized. White Pine regen beginning to fill in understory, red maple throughout in large sapling size class.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		3	Sapling/Pole	3	31	White Pine		
Bigtooth Aspen		90	Pole/Sapling	5	31	Density		
White Pine		7	Log	14	96	Avg. Height		
						Size		
<b>116</b>	42110 - Planted Red Pine	Sawtimber Well	6.2	95	111-140	N/A	Part of larger adjacent pine stand, sepersted after it was thinned in 99. Slightly lower stocking with more advanced regeneration, consisting mainly of white pine. Previously identified as Natural Pine, switched to planted in 1931 after looking at planting records for stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		30	Log	14	95	Red Maple		
Red Pine		70	Log	14	95	Witch Hazel		
						Beech		
						White Pine		
						Density		
						Avg. Height		
						Size		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>117</b>	4130 - Aspen	Sapling Well	20.2	7	1-50	N/A	Stand regenerating well, fully stocked with aspen and red maple regen. Beech and white pine are a component of the regen as well.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		2	Log/Pole	11	81	White Pine		
Red Maple		30	Sapling	1	7	Density		
Beech		4	Sapling	1		Avg. Height		
Red Oak		2	Log	14	111	Size		
Bigtooth Aspen		60		1	7			
White Pine		2	Log/Pole	10	111			
<b>118</b>	42140 - Planted Mixed Pine	Sawtimber Well	46.5	95	141-170	N/A	Good quality, mixed pine with aspen present throughout much of stand however there are areas that are void of aspen, these areas tend to be dominated by red pine. Scattered red oak present as well. Trace jack pine, most has fallen out or was cut, some dead standing. Occasional red and white pine legacy trees in stand. Found average BA to be 160, some stocking variability throughout stand. Trace paper birch in stand, most has died off but still standing. Previously typed as Natural Pine, switched to planted, planting records show N1/2 of NE was planted in 1931 with red pine, white pine and jack pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		3	Log/Pole	14		Beech		
Quaking Aspen		15	Pole/Log	9		Density		
White Pine		35	Log/Pole	14	95	Avg. Height		
Red Pine		47	Log	13	95	Size		
<b>119</b>	4123 - Red Oak	Sawtimber Well	43.2	91	81-110	N/A	Decent quality oak stand, dense advanced aspen regen in large sapling class mainly around perimeter of stand where aspen was likely more prevalent at time of last harvest. Central portion of stand has higher BA in the 100-120 sq ft/ac range with no aspen regen in this area of stand, medium density red maple regen.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		3	Pole	8		White Pine		
Red Oak		90	Log	12	91	Density		
White Pine		5	Log/Pole	10		Avg. Height		
Red Pine		2	Log	12		Size		
<b>120</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	20.0	106	81-110	N/A	Good quality hardwood stand, BA averages 110-120 consistently throughout. Scattered super canopy white pine, very good quality and likely closer to 150+ age class. Beech regen is thick throughout, very little desirable regeneration aside from trace sugar maple at edges of stand. Trace aspen in NW corner.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		64	Log	14	106	Beech		
Red Maple		15	Log	14		Density		
Beech		8	Log	14	106	Avg. Height		
Red Oak		6	XLog/Log	18	106	Size		
White Pine		7	XLog/Log	19		Black Cherry		
<b>121</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	27.3	106	111-140	N/A	Mixed oak pine stand with aspen and red maple scattered throughout. Aspen mainly present in more uniform clones, 34 years old however some larger aspen present in lower numbers. Much of the red and white oak is large diameter and multi stem, some white and red oak poles present in the 5-8" size class. White Pine is variable diameter, fair amount of poles in the intermediate canopy along with larger stems occupying canopy level. Larger red pine present but higher density in eastern portion of stand. Old well site or opening reverting to forested, should be separated, consists of white oak, aspen and jack pine saps with red pine, white pine, aspen and red oak pole/logs present.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole/Sapling	5	36	White Oak		
Red Oak		20	XLog/Log	18	106	Density		
White Oak		20	Log/XLog	16	106	Avg. Height		
Bigtooth Aspen		13	Pole/Sapling	5	36	Size		
White Pine		5	Log	12		White Pine		
White Pine		20	Sapling/Pole	4	36	Witch Hazel		
Red Pine		10	Log/Pole	12	74			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>122</b>	4130 - Aspen	Sapling Well	6.5	17	Immature	N/A	Aspen growing well, fully stocked regenerating stand dominated by aspen and red maple.																																																			
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<b>123</b>	4133 - Aspen, Mixed Pine	Sapling Well	14.7	17	81-110	N/A	Stand regenerating well, ~10-30 ba of red and white pine and red oak were retained at time of last harvest.																																																			
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<b>124</b>	42110 - Planted Red Pine	Poletimber Well	25.1	66	111-140	N/A	Stand responding well to 2020 thinning, growing well and good quality. Fair amount of beech and white pine regen in understory. Pole sized, transitioning to log sized with average dbh of 9-10".																																																			
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<b>125</b>	42110 - Planted Red Pine	Sawtimber Well	30.3	86	81-110	N/A	Marked harvest completed 2015, stand responding well, good quality red pine. BA hovering around 110 overall with some stocking variability in areas of stand. Fairly heavy white pine, beech and aspen regen throughout.																																																			
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<b>126</b>	310 - Herbaceous Openland	None	8.0			No	Opening seeding in with bushy white pine. Jack pine and red maple present as well.																																																			
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<b>127</b>	4131 - Aspen, Oak	Sawtimber Well	8.1	71	111-140	N/A	New stand created by timber sale boundary when adjacent stand 69 was harvested. Slope along Twenty-two creek, somewhat steep in spots, generally provides a good corridor along creek and adjacent to RMZ. Aspen is relatively large diameter providing good standing snags in spots and excellent source of course woody debris. In addition, motorized trail transects 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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**128**      4130 - Aspen      Sapling Well      14.0      18      1-50      N/A

Aspen growing well, high density stems/ac and fairly good quality overall. Conifer component of white pine, jack pine and balsam fir regenerating in understory. In addition, scattered red maple and white pine present, retained at time of last harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	1	18	White Pine	Low	5 - 10 feet	5 - 10 feet
Red Maple	3	Log	14	91	Jack Pine	Low	5 - 10 feet	5 - 10 feet
White Oak	2	Log	13		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Paper Birch	5	Sapling	1	14				
Bigtooth Aspen	80	Sapling	2	18				

**130**      42220 - Natural Jack Pine      Sapling Well      1.9      18      Immature      N/A

Regenerating pine stand, dominated by sapling jack pine. Fairly dense overall.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	18
White Pine	10	Sapling	2	
Red Pine	5	Sapling	2	18
Jack Pine	80	Sapling	2	18