



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61055

Entry Year 2025

Acreage: 3,245

County Grand Traverse

Management Area: Kalkaska Sandy Moraines

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**Stand Examiner:** Joe Ventimiglia

### Legal Description:

T27N-R09W-Sec. 9 - 16

### Identified Planning Goals:

General management goals for this compartment are to provide timber products; maintain or enhance wildlife habitat; protect areas of unique character, threatened, endangered and special concern species; and provide for forest-based recreational uses.

### Soil and topography:

Rubicon sands are the dominant soil type throughout compartment with Lupton Mucks present in lowland areas and creek bottoms as well. In addition some Macelona Lake Loamy sands are present in small localized areas. This is indicative of the areas within the compartment that seem to have a slightly higher water table. Compartment is slightly rolling to rolling with occasional steep banks leading to Fife Lake Creek.

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

Primarily State ownership with one interior private inholding. This area receives heavy recreational use throughout the year from skiers, bikers, hikers and hunters.

### Unique Natural Features:

Bogs in Sec. 8. The Headquarters Lake Wildlife Management Area and associated flooding are contained within this compartment.

### Archeological, Historical, and Cultural Features:

We have thirteen sites recorded within this compartment. Five are on private land, so there are no concerns for those sites. There are several sites in the compartment in stands that may be slated for treatments.

Site of historic Fife Lake State Forest Headquarters is located within this compartment.

### Special Management Designations or Considerations:

Visual and BMP considerations Should be taken into account along all lakes, bogs, marshes, and streams. If timber sales are conducted adjacent to the above mentioned areas, protection should be addressed during sale set up and also by using appropriate VMS sale specifications. This compartment also contains many of the original pine plantations on State land, some dating back to as early as 1914.

### Watershed and Fisheries Considerations:

The Fife Lake Outlet flows through Compartment 55. It is a Designated Trout Stream with self-sustaining populations of brown and brook trout. Headquarters Lake, Spring Lake, Twin Lake, and Pickerel Lake, also fall within the boundaries of Compartment 55. All offer decent fishing for species like bluegill, pumpkinseed sunfish, northern pike, and largemouth bass. BMPs should be followed for any treatments near these waters.

### Wildlife Habitat Considerations:

The majority of Compartment 55 lies on a broad, flat outwash plain. Soils are sandy and well-drained. Pine and oak dominate the current vegetation type. This is a fire-driven landscape, so a range of habitat conditions from open barrens to some late-successional forests is appropriate. Thus management should continue to promote various age classes and species mixes of oak-aspen-pine forest through burning and timber harvest. Timber practices should mimic natural fire of various intensities. This includes leaving as many snags as possible, creating coarse woody debris (CWD) during sale operations, and "leave islands" or "leave strips" will also mimic natural disturbance. Oaks, in either oak dominated stands or as a component of mixed stands are extremely beneficial to many wildlife species including white-tailed deer, bear, wild turkey, fox squirrel, and blue jay.

Because of the fire prone nature of this landscape managing some acreage as open lands or barrens is not only appropriate, but also is very important. This compartment and the general area lack this upland non-forested habitat type. Opportunities through timber harvest will be utilized to recreate this habitat. Some brush management and prescribed fire

will undoubtedly need to be employed on a regular basis to create and maintain these open lands. Seeding of native grasses, forbs, and appropriate pasture mixes should be employed as needed. One such treatment is proposed to recreate a barrens type habitat via controlled burning and mechanical treatment in stand 48.

The Headquarters Lake Wildlife Management Area and associated flooding are contained within this compartment. Waterfowl hunters frequent the backwater areas and may find good numbers of migrating ducks. Trappers may find good areas for beaver, otter, mink, raccoon, and muskrat. Canoers frequent this flooding for wildlife viewing, while campers and hikers frequent the area during summer months. Management practices for this flooding may include water manipulation, native plantings, dredging, installation of nest structures, infrastructure maintenance, etc.

This compartment was part of the Fife Lake State Forest, which was the first State Forest in Michigan. The compartment has old firebreak roads on nearly every quarter quarter line. Some of the roads are utilized for various official trails. Some of these old roads could be gated to create additional hunting, hiking, and biking trails.

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

There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is just over one mile southeast. There may be potential for sand & gravel within the compartment, on the uplands, but setbacks from surface water and trails may limit development potential. Oil & gas drilling has been relatively sparse in this area. Some minor production has occurred southeast of the compartment. There has been no recent State mineral leasing or well permit activity in the area. Potential for future oil & gas development is considered low at this time, but it cannot be ruled out without access to industry data.

### **Vehicle Access:**

Road network is detailed in the compartment packet as well as on the DNR's road map available online. The area in particular has extensive road network.

### **Survey Needs:**

None needed.

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

A spur from Snowmobile Trail #5 (Boardman Valley Snowmobile Trail) is located in the NW corner of this compartment. The North Country Trail & Shore to Shore non-motorized trail runs NE/SW midway through the compartment. Spring Lake, which is one of the oldest State Forest Campgrounds (designated in 1929) is located within this compartment. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and hunting experiences for future generations. A non-winter harvest, coupled with avoiding the use of the trail as a haul route is suggested considerations. Any forest treatments within Spring Lake State Forest Campground should include: collaboration with PRD to develop timber harvest plan; specifications that will lessen impacts on users during camping season (winter cut only); "short-log" requirement to lessen potential damage to campground infrastructure and desirable understory vegetation; slash management to reduce logging debris on campsites, removal of hazard trees; and "flush-cut" stump requirement to reduce tripping/vehicle hazards in concentrated use areas.

### **Fire Protection:**

While this area is in Gr. Traverse Co., initial attack DNR forces are from the Manton office as a result of travel time. Traverse City DNR units respond also. Portions of sections 11 and 14 are in a zone dispatch area. Battalion #6-Fife Lake is the local VFD responding to this area.

### **Additional Compartment Information:**

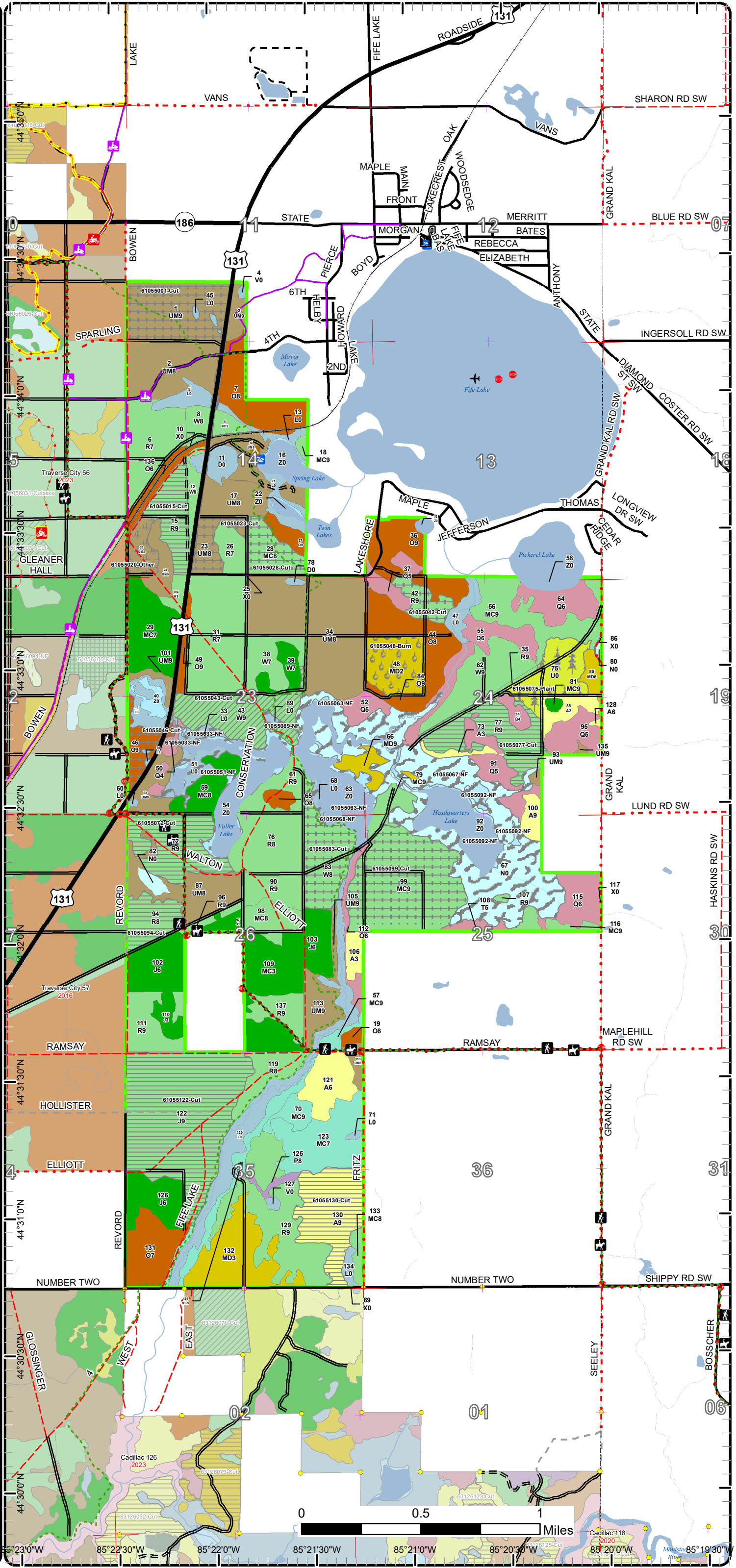
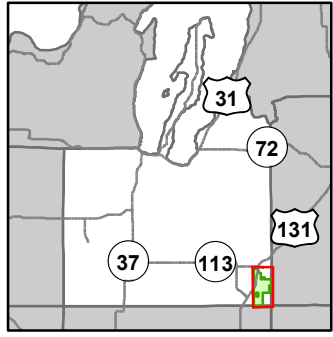
**The following reports from the Inventory are attached:**

- 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**

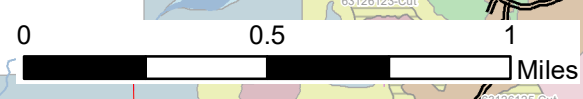
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

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 Moraines  
 YOE: 2025  
 Acres: 3245 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 5/8/2023  
 Map Phase: Web - Post



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- Sign
- Compartment Boundary
- Other Treatment - See Comments
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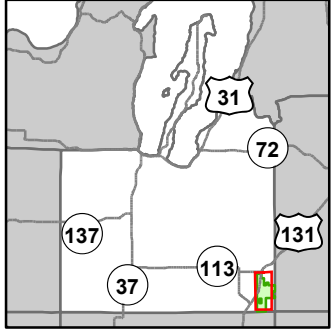
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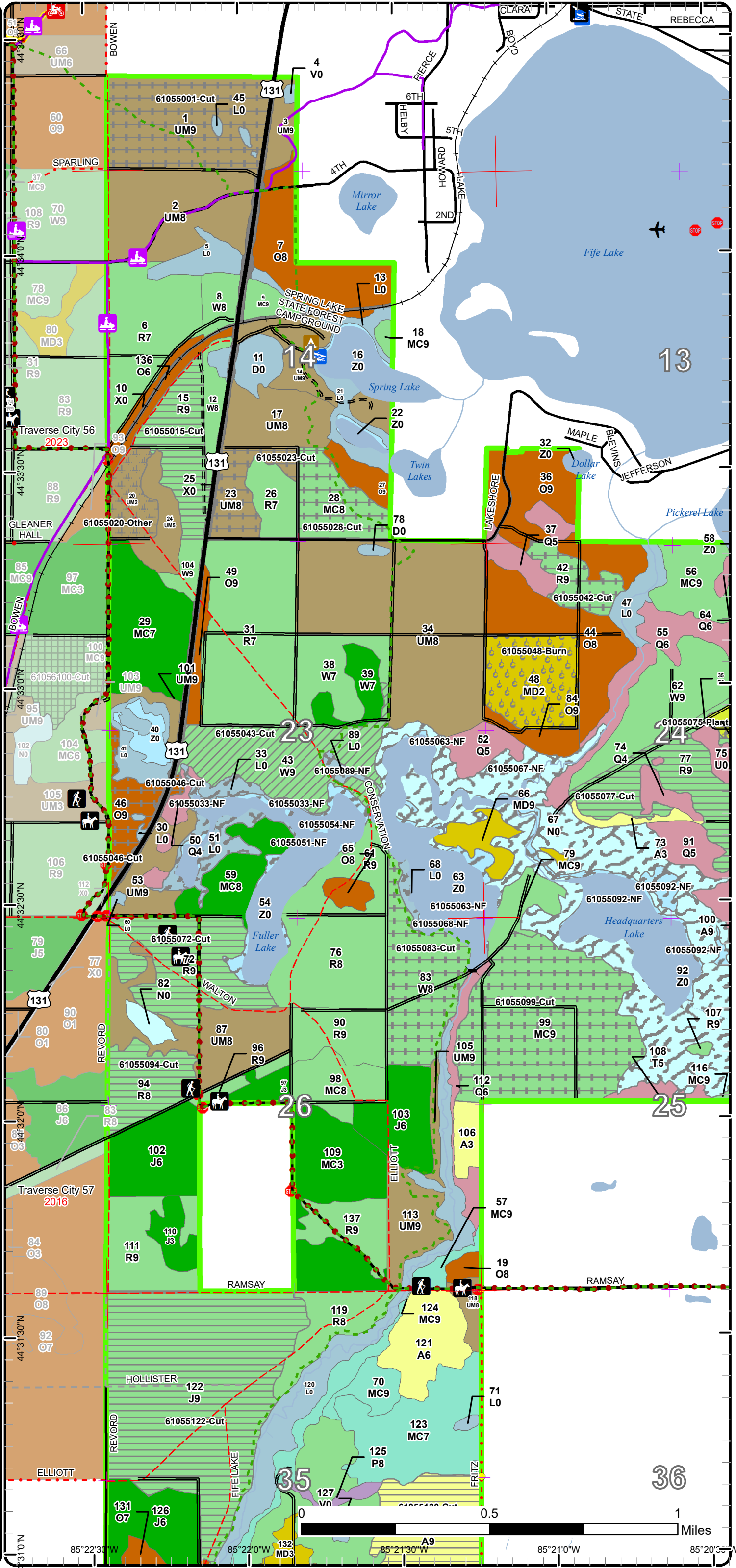


# Cover Type & Treatments Map

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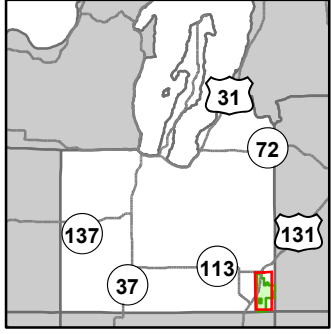
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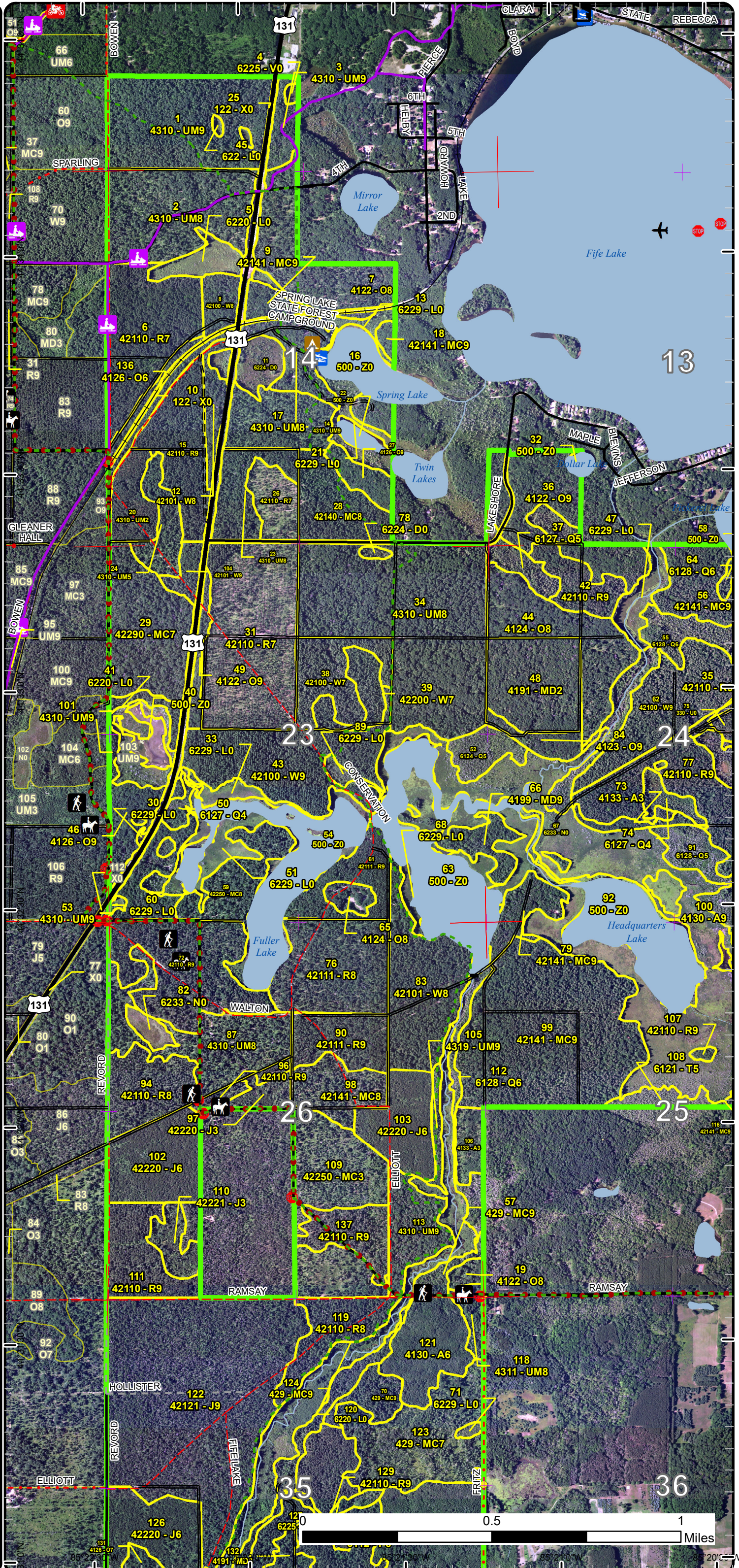


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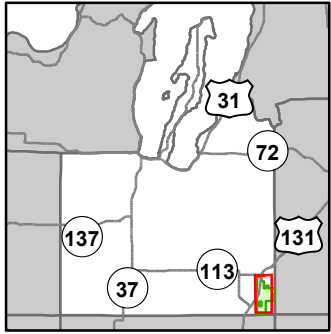
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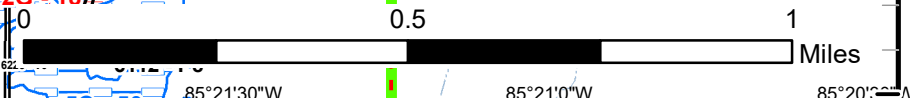
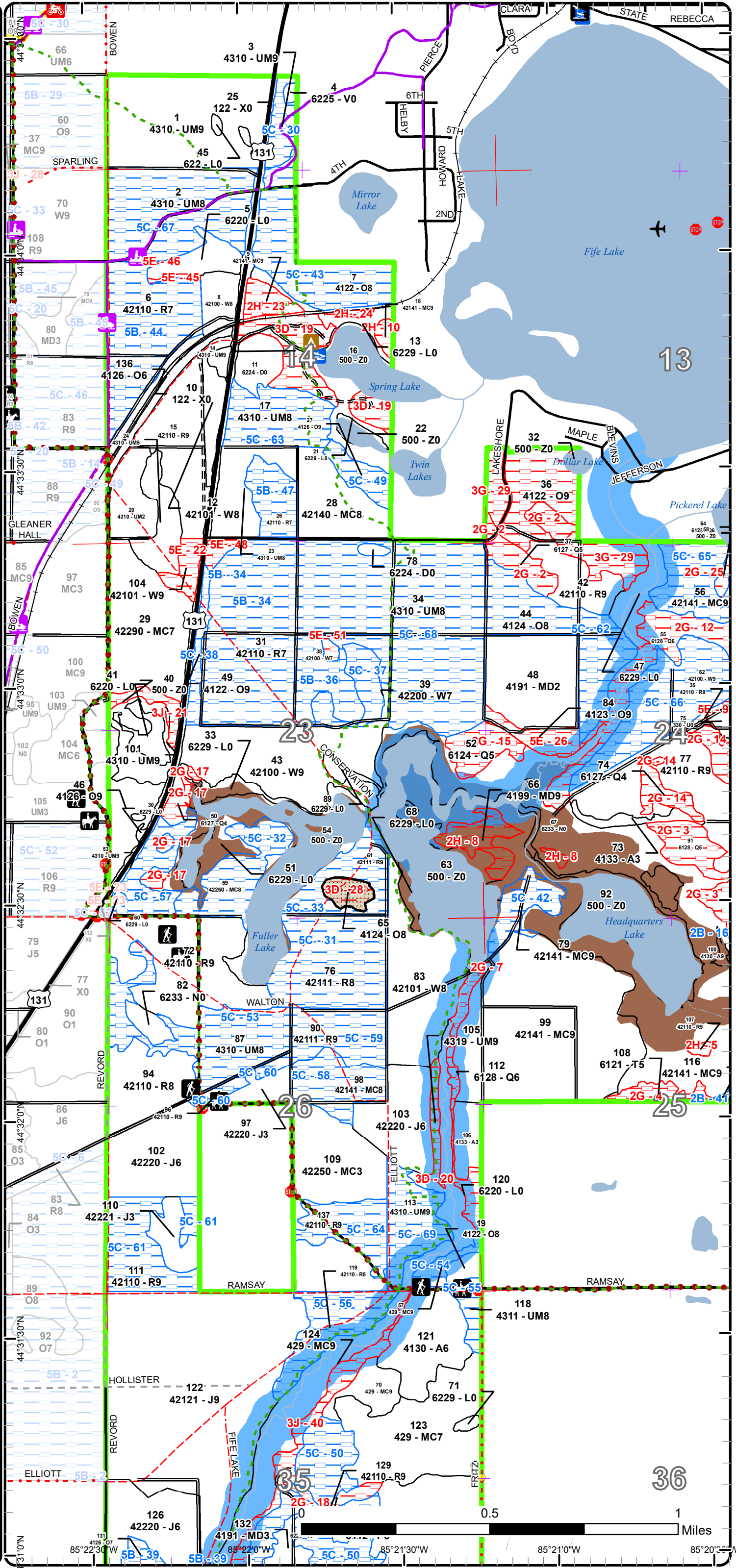


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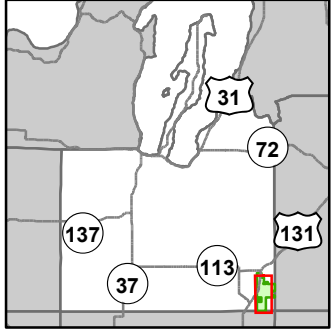
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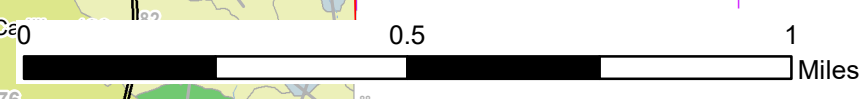
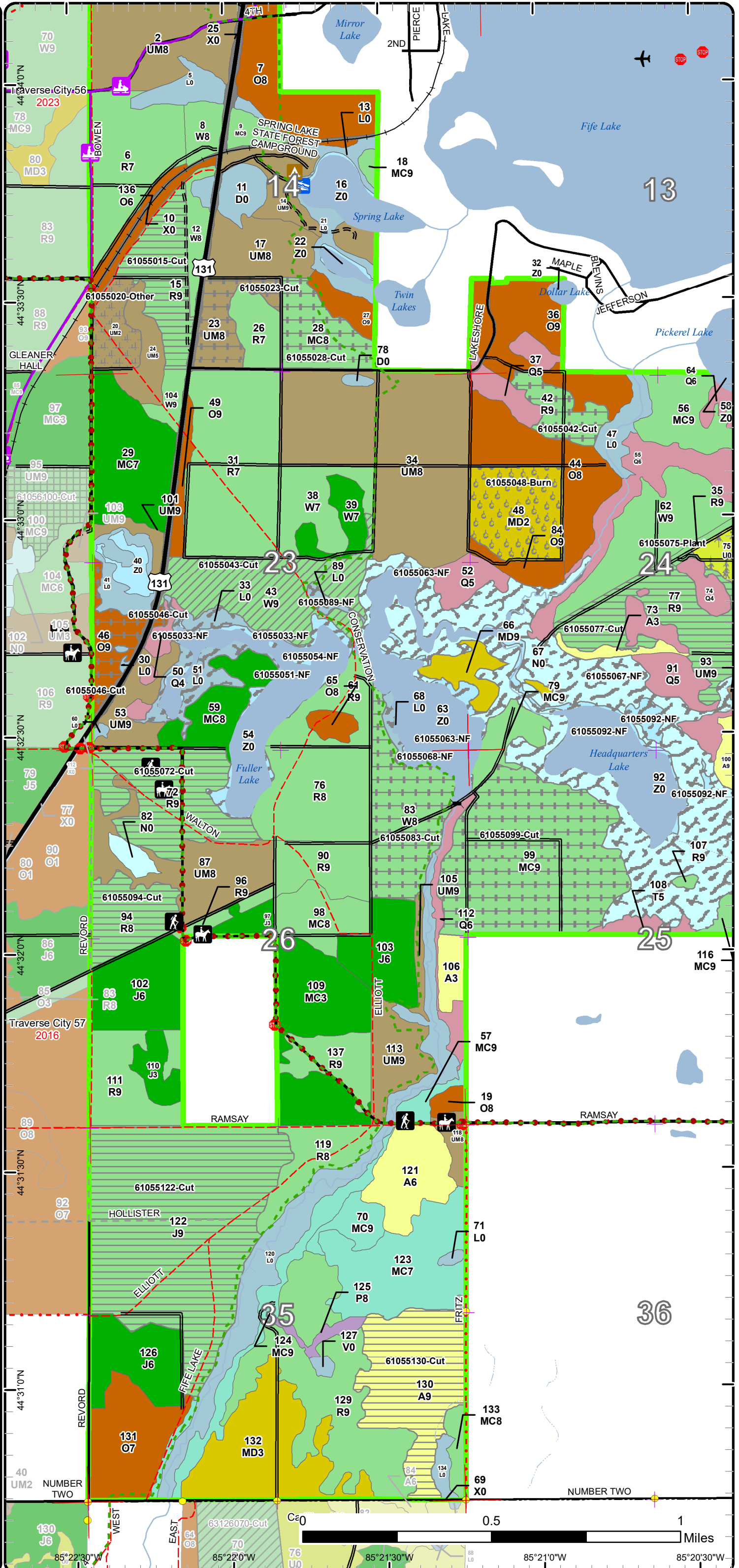


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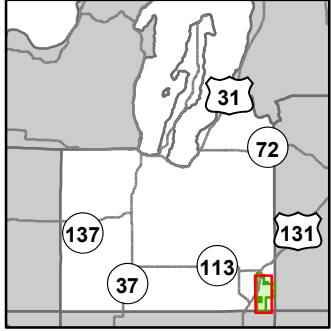


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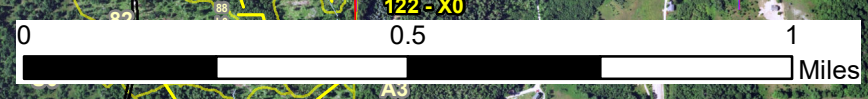
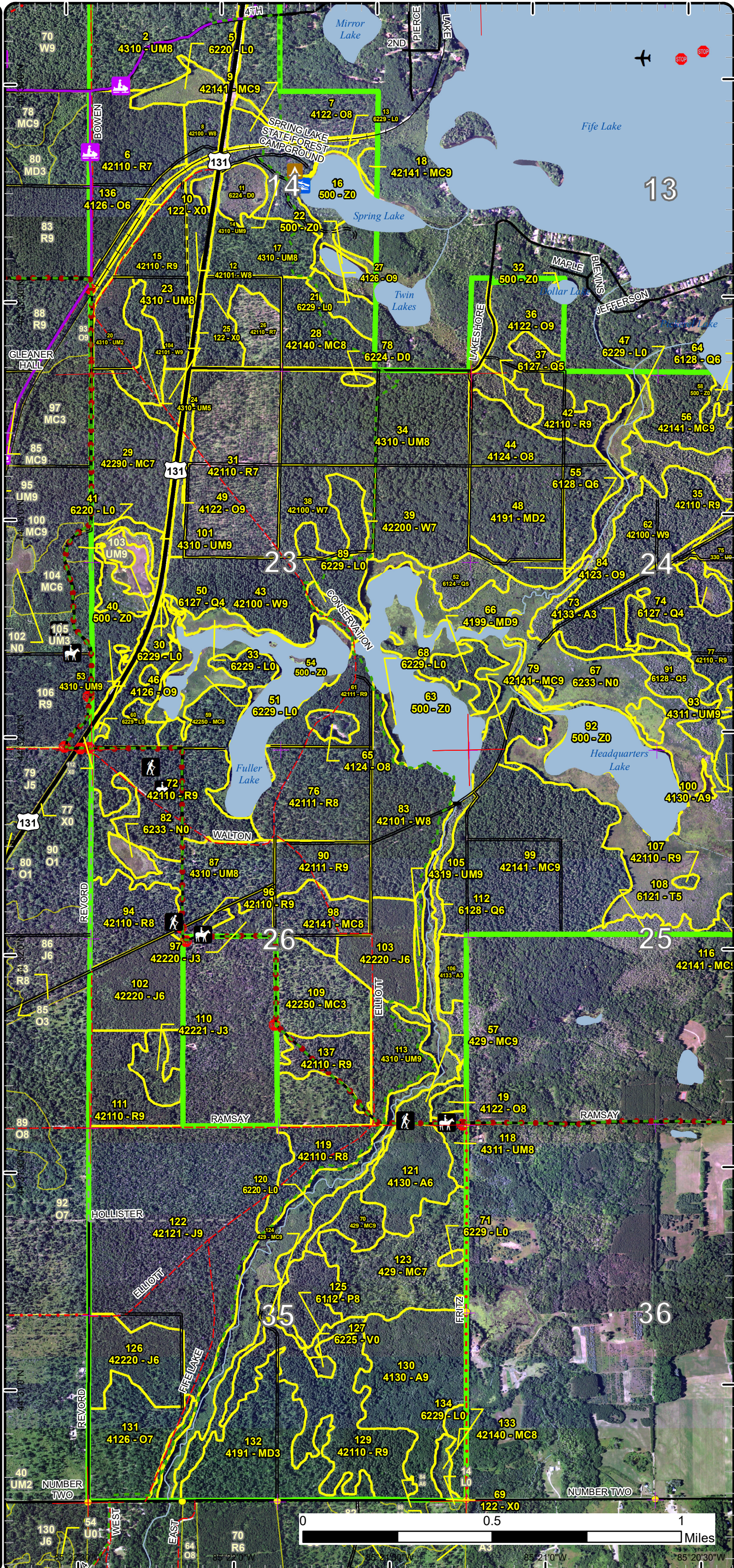


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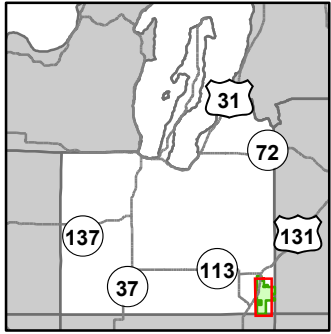


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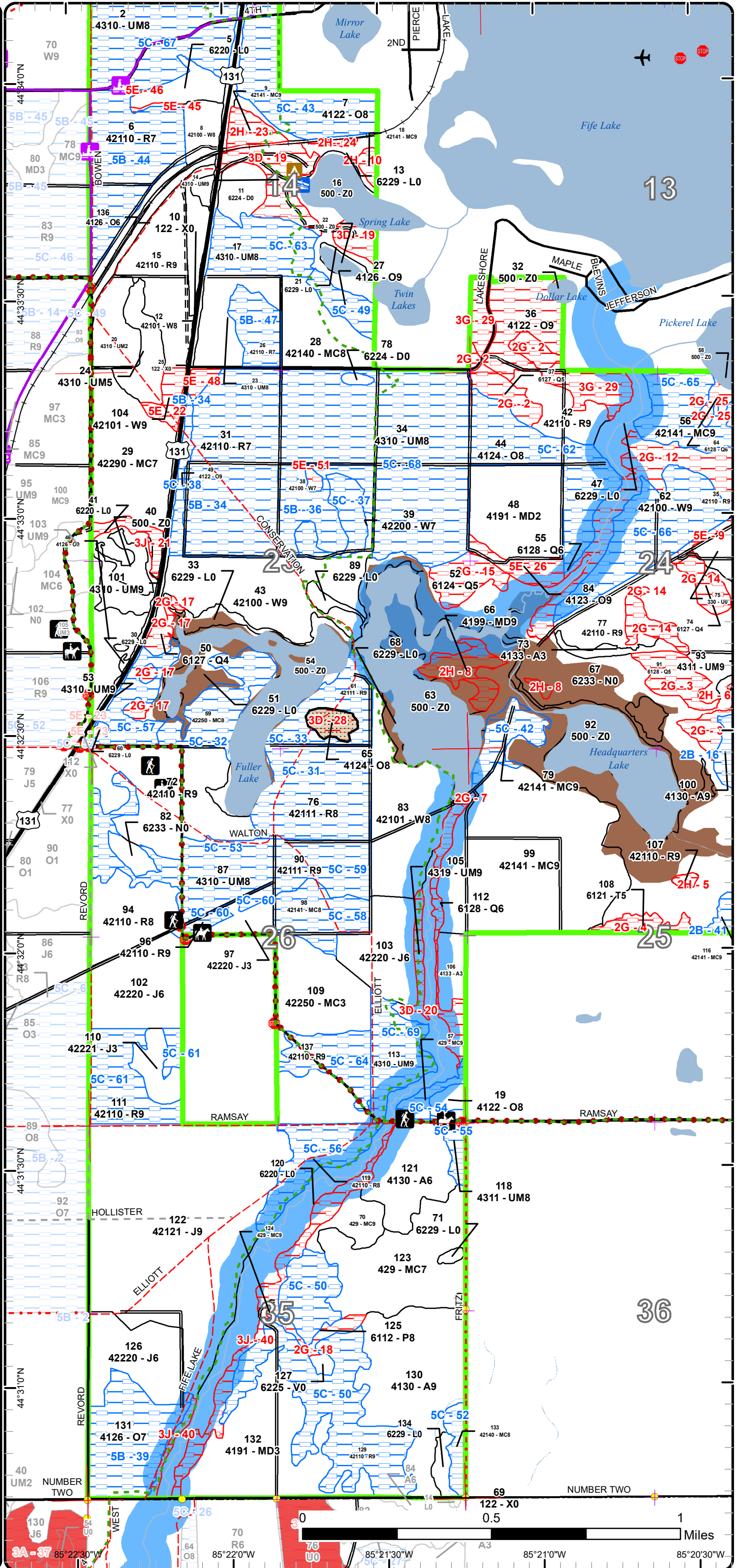


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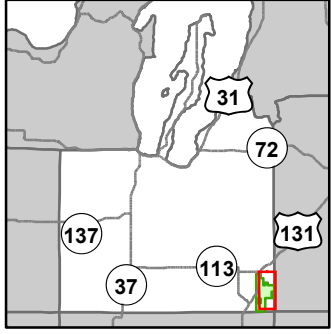
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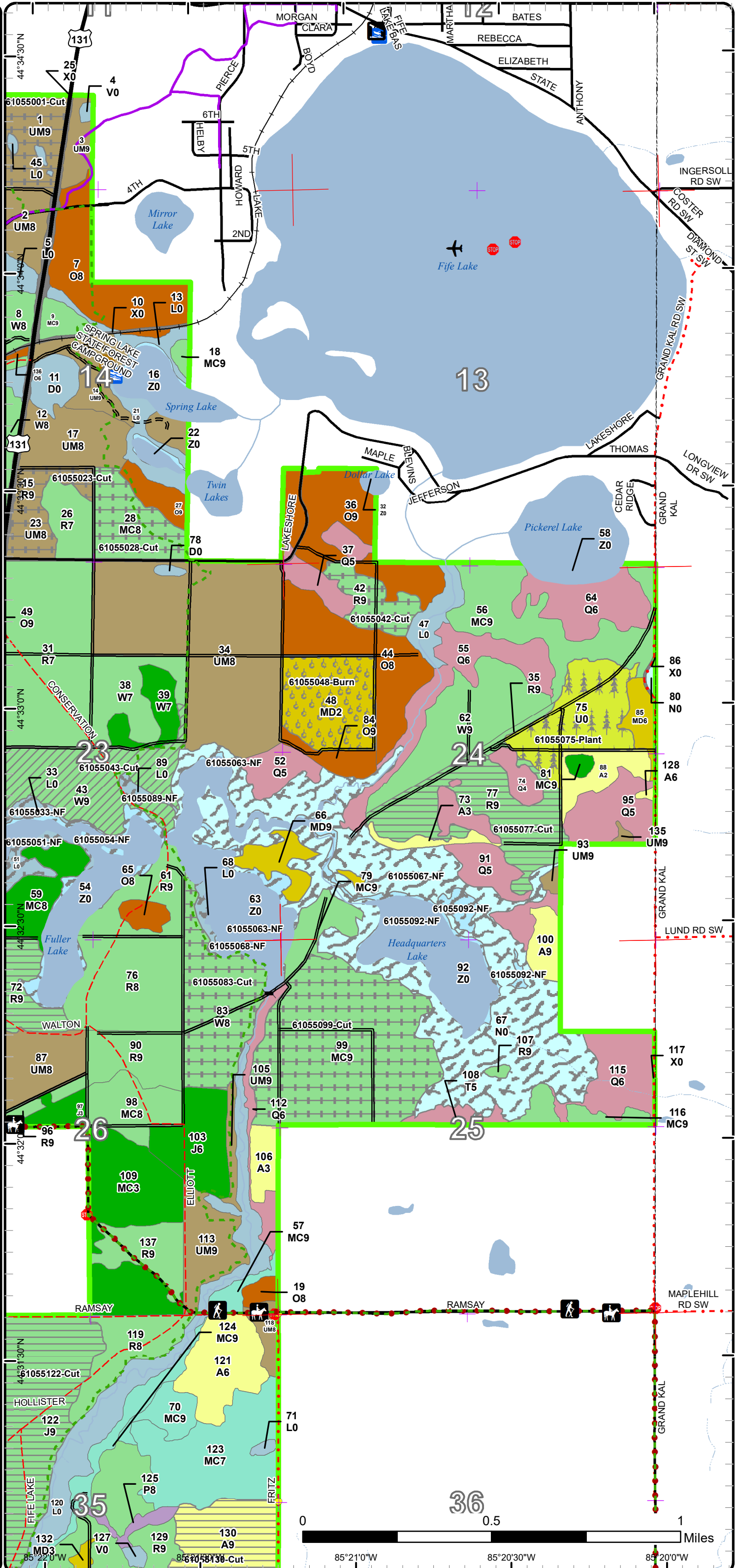


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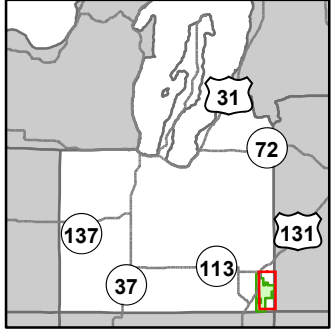
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- T Toilet
- ✈ Airport
- ⚓ Boating Access Site
- ⚖ Bridges
- ▲ Campground
- STOP Sign
- Compartment Boundary
- T Planting (Tree Species)
- T Clearcut (w/Reserves)
- T Harvest, Overstory Removal
- T Prescribed Burn
- T Thinning (Crown, Low, Systematic)
- T Water Level Management
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



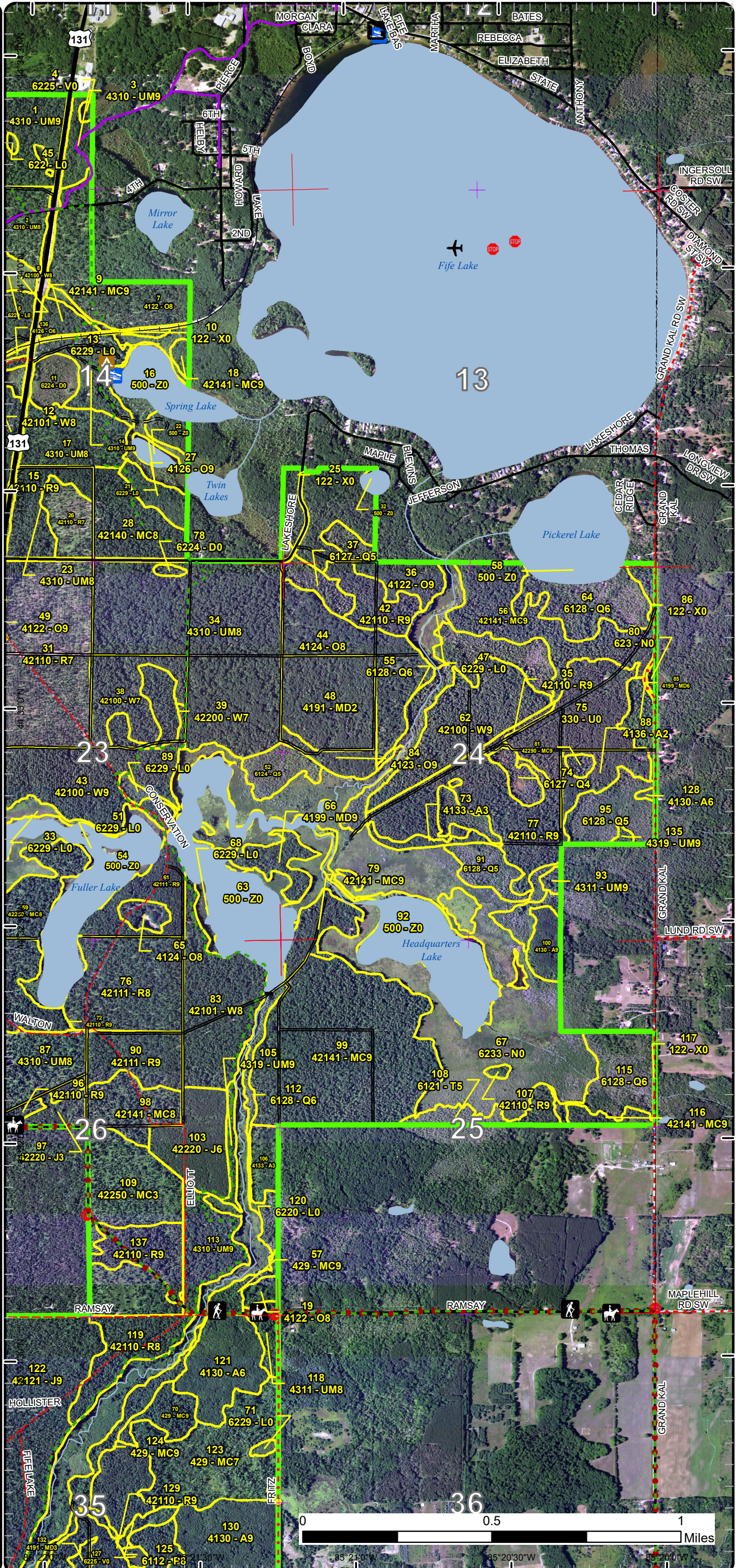


# Stand Boundary Map

Compartment: 55  
 T27N-R09W Sec. 09-16  
 County: Grand Traverse  
 Unit: Traverse City  
 Mgmt Area: Kalkaska Sandy Moraines  
 YOE: 2025  
 Acres: 3245 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 5/8/2023  
 Map Phase: Web - Post



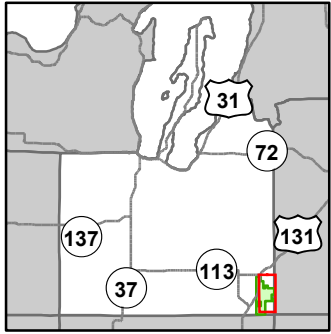
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- + Active Railroads
- Hiking Trails
- Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- + Toilet
- + Airport
- + Boating Access Site
- + Bridges
- + Campground
- + Sign
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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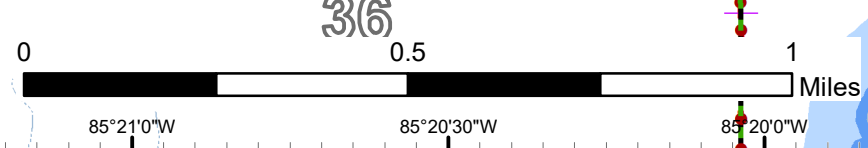
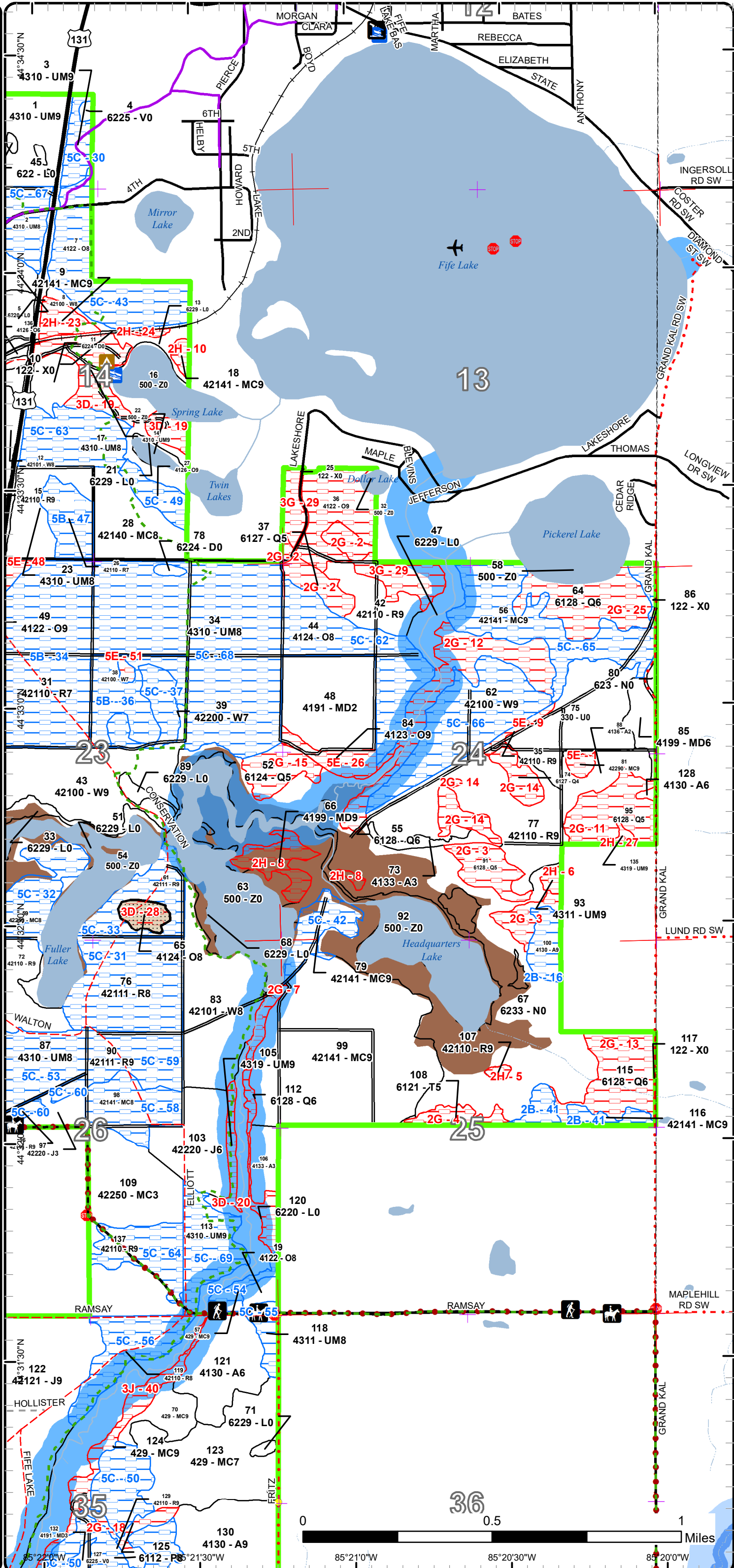


# Special Conservation Areas

Compartment: 55  
 T27N-R09W Sec. 09-16  
 County: Grand Traverse  
 Unit: Traverse City  
 Mgmt Area: Kalkaska Sandy Moraines  
 YOE: 2025  
 Acres: 3245 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 5/8/2023  
 Map Phase: Web - Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- + Active Railroads
- Hiking Trails
- Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- + Toilet
- + Airport
- + Boating Access Site
- + Bridges
- + Campground
- + Sign
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- Cultural Use Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	13	0	14	29	61	9	0	0	0	0	0	0	0	0	0	0	0	126
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	0	18	92	0	0	0	0	0	163	0	0	0	0	0	0	0	272
Low-Density Trees	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	21	0	0	26	25	60	18	11	0	0	0	0	161
Lowland Shrub	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
Marsh	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
Mixed Upland Deciduous	0	38	0	57	8	0	0	0	0	13	0	0	0	0	0	0	0	0	116
Natural Mixed Pines	0	0	53	0	0	0	0	46	0	0	2	24	0	0	0	0	0	0	125
Oak	0	0	0	0	0	0	0	0	12	0	42	80	92	0	0	0	0	0	226
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	52	193	0	0	0	0	0	0	245
Red Pine	0	0	0	0	0	0	0	0	0	0	224	347	0	0	0	0	0	0	570
Tamarack	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	6
Treed Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	0	0	0	0	0	0	0	88	6	0	0	0	0	0	0	94
Upland Mixed Forest	0	15	0	0	0	0	0	0	16	3	146	247	5	0	0	0	0	15	447
Urban	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Water	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
White Pine	0	0	0	0	0	0	0	0	0	13	19	179	0	0	0	0	0	0	211
<b>Total</b>	<b>618</b>	<b>66</b>	<b>53</b>	<b>89</b>	<b>129</b>	<b>61</b>	<b>30</b>	<b>46</b>	<b>40</b>	<b>55</b>	<b>761</b>	<b>1136</b>	<b>115</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>3222</b>





## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 55  
Total Compartment Acres: 3,245

Commercial Harvest - 749  
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	60	0	0	0	0	0	0	0	0	60
Jack Pine	163	0	0	0	0	0	0	0	0	163
Oak	0	0	0	0	0	18	0	0	0	18
Planted Mixed Pines	0	0	0	0	0	138	0	0	0	138
Red Pine	167	0	0	0	0	16	0	0	0	183
Upland Mixed Forest	0	0	0	0	0	84	0	0	0	84
White Pine	0	0	0	0	57	48	0	0	0	105
<b>Total</b>	<b>390</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>57</b>	<b>303</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>749</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	749	0	38	0	38	0	15	368	0	1209
Next Step	0	175	115	0	0	115	581	0	38	1025
<b>Total</b>	<b>749</b>	<b>175</b>	<b>153</b>	<b>0</b>	<b>38</b>	<b>115</b>	<b>581</b>	<b>15</b>	<b>406</b>	<b>2234</b>



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

**Proposed Treatments:**

<b>1</b>	<b>61055001-Cut</b>	64.5	4310 - Pine, Oak Mix	Sawtimber Well	96	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Perform overstory removal. Cut all trees over 4 inches in diameter. As well leave all White Pine over 20 inches in diameter. Additionally, leave retention island 3 to 5 percent of total acreage. (Likely leave around stands 45.)</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of oak, white pine and red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Objective of releasing advanced oak, maple and white pine understory. Allow to be mixed stand. Reroute NCT for few days while cutting next to trail during operations. Use oak wilt spec no exceptions and three-year contract. Use trail protection spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>15</b>	<b>61055015-Cut</b>	32.9	42110 - Planted Red Pine	Sawtimber Well	100	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest 1 inch and up. No retention due to management objective. Require chipping.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Include in one sale with stands 72 and 94 Require low stumps.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>20</b>	<b>61055020-Other</b>	15.3	4310 - Pine, Oak Mix	Sapling Medium	5	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mechanical Hand Release Red Pine.</p> <p><u>Specs:</u> Cut all oak competing with planted red pine. Leave oak if not competing with planted red pine.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 4 /1 /2023</p>											
<b>23</b>	<b>61055023-Cut</b>	19.3	4310 - Pine, Oak Mix	Sawtimber Medium	95	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Perform overstory removal cutting all trees over 4 inches in diameter. No retention due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of oak, red maple and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use oak wilt spec. Include with 28 in one sale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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28	61055028-Cut	26.0	42140 - Planted Mixed Pine	Sawtimber Medium	95	81-110	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Perform overstory removal cutting all trees over 4 inches in diameter. No retention due to smaller size.

Specs:

Next Step

Treatments:

Acceptable Mix of white pine, oak and red maple.

Regen:

Other Protect understory as much as possible during harvest. Use oak wilt spec.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

33	61055033-NF	6.3	6229 - Mixed lowland shrub	Nonstocked		Unspec ified	NonForestMgt	Water Level Management	6229 - Mixed lowland shrub		No
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Prescription Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

42	61055042-Cut	15.8	42110 - Planted Red Pine	Sawtimber Well	101	81-110	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Perform overstory removal leave all trees under 4 inches in diameter where possible. As well leave all white pine over 20 inches in diameter as well as all white oak.

Specs:

Next Step

Treatments:

Acceptable Mix of oak, red maple and white pine.

Regen:

Other Objective of converting stand to mix of oak, white pine and red maple. No retention due to small size. Use oak wilt no exception spec.

Comment: Three-year contact due to oak wilt.

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>43</b>	<b>61055043-Cut</b>	57.0	42100 - Planted White Pine	Sawtimber Well	109	111-140	Harvest	Low Thinning	4210 - Planted White Pine	Even-Aged	No
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Prescription Perform low thinning. Leaving 60 to 80 BA of best dominate canopy trees. Promote big tree management.

Specs:

Next Step

Treatments:

Acceptable Not regeneration harvest.

Regen:

Other Stand has cultural and historical significance due to age. (one of the oldest plantations in NLP) Selecting this stand for big tree management due to age and proximity of headquarters lake) Picking this stand to be grown out far past rotations age and instead managed to create old growth character over time.

Comment:

Buffer lowland/lake as needed with red line.

Site Condition

Proposed Start Date: 10/1 /2024

<b>46</b>	<b>61055046-Cut</b>	17.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	109	81-110	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Perform overstory removal cutting all trees over 4 inches in diameter. Except leave all white pine over 20 inches in diameter. As well leave retention along LO stand to north.

Specs:

Next Step

Treatments:

Acceptable Mix of oak and white pine.

Regen:

Other Leaving large WP to add structure and protect potential legacy trees. Protect advanced white pine and oak regeneration as much as possible.

Comment:

Landlocked island east of 131 can be consider LTR. Use oak wilt no exceptions and three-year contract. Cut all the way to 131 as much as possible. (Not desired to leave mature trees along 131)

Site Condition

Proposed Start Date: 10/1 /2024

<b>48</b>	<b>61055048-Burn</b>	38.2	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	5	1-50	Burn	Opening	3303 - Mixed Low Density Trees		No
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Prescription Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other This compartment is located in an area that experienced frequent fires that supported significant acres of Barrens natural communities.

Comment:

Management of these stands will include prescribed burning. The appropriate use of fire in grassland ecosystems kills encroaching hardwood species, prevents or slows the establishment of some invasive plants, and returns nutrients to the soil.

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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51	61055051-NF	15.9	6229 - Mixed lowland shrub	Nonstocked	Unspecified	NonForestMgt	Water Level Management	629 - Mixed non-forested wetland		No
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Prescription Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

54	61055054-NF	51.8	500 - Water	Nonstocked	Unspecified	NonForestMgt	Water Level Management	500 - Water		No
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Prescription Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

63	61055063-NF	51.5	500 - Water	Nonstocked	Unspecified	NonForestMgt	Water Level Management	500 - Water		No
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Prescription Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>67</b>	<b>61055067-NF</b>	186.5	6233 - Wet Meadow	Nonstocked		Unspecified	NonForestMgt	Water Level Management	623 - Emergent Wetland	No
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Prescription Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>68</b>	<b>61055068-NF</b>	5.4	6229 - Mixed lowland shrub	Nonstocked		Unspecified	NonForestMgt	Water Level Management	629 - Mixed non-forested wetland	No
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Prescription Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>72</b>	<b>61055072-Cut</b>	55.8	42110 - Planted Red Pine	Sawtimber Well	92	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final Harvest 1 inch and up spec. Require Chipping. Leave long term retention in form of proper buffer along lake.

Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial  
Treatments: Regen(3yr)

Acceptable Planted red pine at proper spacing.  
Regen:

Other Include with stand 94. Require low stumps.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>75</b>	<b>61055075-Plant</b>	38.0	330 - Low-Density Trees	Nonstocked	0		Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
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Prescription Plant Red Pine in Trenches

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Fully Stocked Stand of Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>77</b>	<b>61055077-Cut</b>	51.8	42110 - Planted Red Pine	Sawtimber Well	102	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Final harvest all trees 2 inches and up. Protect white pine understory as much as possible. As well leave retention island at least 3 to 5 percent of total acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen primary with mix of white pine and red maple.

Regen:

Other

Comment:

Map retention in MIFI. Aspen/red maple should be cut flush to resprout to one age class. Protect legacy WP if found on edge.

Site Condition

Proposed Start Date: 10/1 /2024

<b>83</b>	<b>61055083-Cut</b>	47.8	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Medium	107	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Perform overstory removal leaving all trees 4 inches in diameter and under. Protect as much of understory white pine and oak as possible.

Specs:

Leave LTR buffer along whole east line of stand. (This will protect NCT trail and buffer lake/creek)

Next Step

Treatments:

Acceptable Mix of white pine and oak.

Regen:

Other

Comment:

Use oak wilt spec no exceptions (Make three-year contract as a result of size and oak wilt) . Map retention in MIFI. Protect any legacy White pine if found, most should be protected in LTR strip.

Site Condition

Proposed Start Date: 10/1 /2024



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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>89 61055089-NF</b>	2.9	6229 - Mixed lowland shrub	Nonstocked		Unspecified	NonForestMgt	Water Level Management	629 - Mixed non-forested wetland		No
<p><u>Prescription</u> Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>92 61055092-NF</b>	47.4	500 - Water	Nonstocked		Unspecified	NonForestMgt	Water Level Management	500 - Water		No
<p><u>Prescription</u> Manage water levels to return dynamic water level regime to support healthy wetland community of open water, emergent vegetation, floating vegetation, and lowland shrub communities. Goal would be to increase species diversity, including game, non-game, and rare species. Could include artificial nesting structures and adding native plant species to the area. Part of the Headquarters Lake Wildlife Management Area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>94 61055094-Cut</b>	26.7	42110 - Planted Red Pine	Sawtimber Medium	108	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest 1 inch and up spec. Require Chipping. Leave long term retention in form of small buffer along north edge.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Include with stand 72. Require low stumps.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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>99 61055099-Cut</b>	111.7	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	102	51-80	Harvest	Overstory Removal	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Perform overstory removal cutting all trees over 4 inches in diameter. Leave retention in form of 75 to 150 foot buffer along whole east/north edge of stand. Aspen understory should be cut regardless of merchantability. Unlike oak and white pine understory which should be protected as much as possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, oak, red maple and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Map retention in MIFI.. Objective of harvest is to convert stand to mix of aspen, maple, oak and white pine. With amount of good regen this would be good candidate to protect as much regen as possible with harvest and let go to aspen. Use oak wilt spec no exceptions ( Make three-year contract as a result of size and oak wilt) Leaving buffer along marsh edge for both scenic, bmp and recreational reasons.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>122 61055122-Cut</b>	162.5	42121 - Planted Jack Pine, Mixed Deciduous	Sawtimber Well	97	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest leaving all red pine and all white oak over 12 inches in diameter. As well protect white pine under 4 inches in diameter by spec.</p> <p><u>Specs:</u></p> <p>Retention will be left in form of at least 50 foot buffer using NCT trail as guide all along east line. ( Make sure buffer at least 3 percent of sale acreage)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of oak, jack pine, white pine and some aspen/red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Map retention in MIFI. Use oak wilt spec no exceptions ( Make three-year contract as a result of size and oak wilt)</p> <p><u>Comment:</u></p> <p>Buffer along NCT acts as both protection to trail and riparian buffer to fire lake creek.</p> <p>With aging jack pine resource leaving portion of stand for future YOE not advisable.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>130 61055130-Cut</b>	59.9	4130 - Aspen	Sawtimber Well	48	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest. Leave all white oak and any hemlock. As well leave retention island 3 to 5 percent of total acreage.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with minor mix of pine/oak and red maple accepted as well.</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter or dry summer harvest only. Add grouse spec. Map retention in MIFI.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment** 1208.5  
**Acreage Proposed:**

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment: 55  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions										
		With Condition	Not Available		2B	5B	5C	2G	2H	3D	3G	3J	5E		
125	116	9	0	Aspen	9										
3	3	0	0	Bog											
272	272	0	0	Jack Pine		0	0								
38	38	0	0	Low-Density Trees											
5	0	0	5	Lowland Aspen/Balsam Poplar				5							
182	0	0	182	Lowland Conifers				182							
152	152	0	0	Lowland Shrub						0			0		
192	192	0	0	Marsh				0	0						
116	103	0	13	Mixed Upland Deciduous					13						
125	99	24	2	Natural Mixed Pines			24								2
226	33	135	58	Oak		38	97		1	6	43				8
245	138	99	9	Planted Mixed Pines	10		88		9						
571	182	381	8	Red Pine		135	246		1						6
6	0	0	6	Tamarack				6							
14	14	0	0	Treed Bog											
94	63	6	25	Upland Conifers			6							25	
447	114	296	37	Upland Mixed Forest			296		3	29				5	
37	37	0	0	Urban										0	
183	183	0	0	Water											
211	123	79	8	White Pine		24	56								8
3,245	1,862	1,030	353	Total Forested Acres	20	196	814	193	27	35	43	30	25		
	57%	32%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								
LTR as well as wet area left during final harvest of stand 88.								

## Report 4 – Site Conditions

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2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small ridge not worth effort to cross swamp for small acreage.							

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7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LTR for stand 75 final harvest.							
10	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too small to be worth trouble for access.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> State Forest Campground. Commercial management not practical in this setting. Hazard trees will be cut as needed by PRD.							
20	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small buffer along NCT trail and buffer to Fife Lake Creek.							
21	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer left along flooding, portions too steep and left for BMP concerns along water.							
22	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LTR for stand 29.							
23	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small acreage stand blocked by busy 131 highway/RR tracks and lowland. RR crossing too steep approaches. 131 driveway creation not safe enough to consider. Only potential is when stand 7 is cut again could use composite mats to make crossing across stand 5.							

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24	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small block of timber blocked by RR tracks and lowland.							
25	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	28	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LTR for stand 48							
27	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	6	(Inactive)3I: Historical / archeological (add locked comments)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	43	(Inactive)3I: Historical / archeological (add locked comments)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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30	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold until stand 7 is addressed in future.							
31	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> With all the planned timber activity this YOE some stands are being held off for future YOE harvest potential.							
32	<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> With all the planned timber activity this YOE some stands are being held off for future YOE harvest potential.							
33	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> With all the planned timber activity this YOE some stands are being held off for future YOE harvest potential.							
34	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was recently harvested leaving scattered pine overstory. At this time hold but at later date going back in to take overstory pine off not out of the question.							
36	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was recently harvested leaving scattered pine overstory. At this time hold but at later date going back in to take overstory pine off not out of the question.							

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37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small buffer left along 131, hold at this time although stand could be managed in the future.							
39	Available	5B: Maintain for regeneration purposes	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Not worth disruption to regeneration at this time.							
40	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave stand as buffer to Fife lake creek. Some pockets could be managed but overall stand should be protected as buffer.							
41	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small stand with many access complications. Can access off county road but would need help of crane mats. West loab of stand would need many matts to cross lowland drainage. Overall, these complications make management unlikely but not impossible.							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold for this entry with large harvest planned to south. In future may write this area off with all going on recreationally and with water influence.							

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43	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand just treated last entry hold at this point.							
44	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was just treated last entry seed tree/shelter wood, hold at this time.							
45	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand was just treated last entry seed tree/shelter wood hold at this point. Could go back in after trees left at later date.							
48	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LTR for stand 31							
49	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold at this time. Legacy white pine component should be protected.							

## Report 4 – Site Conditions

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50	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold till next YOE.							
51	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
52	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold with harvest planned to north.							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand recently cut hold at this time. Could go back in for overstory removal at later date.							
54	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold until adjacent stands are ready for management, some of this stand will be left as buffer to creek as well.							
55	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold till stand 121 is harvested again to make one stand.							

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56	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold with large even aged cuts planned adjacent. Pine will have no issue holding.							
57	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold for future YOE. Jack pine has fallen out naturally and white pine still maturing.							
58	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold for future YOE with amount of harvests already planned in this compartment.							
59	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold for future YOE with amount of harvests already planned in this compartment.							
60	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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61	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold stands for another entry. This one may be good candidate for big tree management along with few others that will be held past rotation age.							
62	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
63	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
64	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
65	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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66	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
67	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
68	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	118	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> With all planned activity decision made to hold till next entry. If acres are needed this stand could be addressed .							
69	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
	Cultural Customary Use	Cultural Use Area	SCA	6
<b>Comments</b>				
Fife Lake SF Headquarters				
<b>South Branch Barrens</b>	Habitat Area	Other Habitat Area	SCA	12
<b>Comments</b>				
Added to existing SCA in adjacent comp 61046				



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	4310 - Pine, Oak Mix	Sawtimber Well	64.5	96	51-80	N/A	Stand was originally planted to mix of white pine/jack pine and red pine in 1927. NCT runs through stand.																																																									
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3	4310 - Pine, Oak Mix	Sawtimber Well	8.7	109	111-140	N/A	Stand was planted to WP in 1924. No record on red pine in stand but assumed this was planted as well. No record of past management, jack pine appears to have fallen out naturally. Steep rolling topography. Small sliver of a stand hemmed in by private, 131 and the snowmobile trail. North tip of stand is solid white pine with oak concentrated in middle of stand.																																																									
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4	6225 - Bog	Nonstocked	1.1		Unspecified	No	Extends farther east. Unlisted is an unknown shrub.																																																									
5	6220 - Alder/willow	Nonstocked	12.6		Unspecified	No	A few dead trees west of highway. Most of the shrubs are tag alders. West side has open areas with sedges/bulrushes. Rubus around perimeter. There is more willow and cattails on the east part.																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
6	42110 - Planted Red Pine	Sawtimber Poor	48.3	103	1-50	N/A	Stand was planted to red pine/jack pine in 1920.																																										
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7	4122 - Oak, Pine	Sawtimber Medium	41.1	118	1-50	N/A	Portions of stand planted to red pine and jack pine in 1921. White pine was planted in portions in 1927. Oak is major stand species at this point. Pine concentrated along south and west edge. Stand steep drop off along portions of RR track.																																										
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8	42100 - Planted White Pine	Sawtimber Medium	9.1	97	51-80	N/A	Stand was originally planted to white pine in 1927.																																										
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9	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	6.6	97	111-140	N/A	Stand was originally planted to white pine in 1927. NCT trail runs through stand.																																										
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10	122 - Road/Parking Lot	Nonstocked	4.5		Unspecified	No	RR tracks. MDOT manages RR tracks.																																										
11	6224 - Treed Bog	Nonstocked	12.3	0	Unspecified	No																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**12** 42101 - Planted White Pine, Mixed Deciduous Sawtimber Medium 9.6 96 1-50 N/A Stand was originally planted to white pine in 1927.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	73	Log/Pole	13	96	Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	5	Pole/Log	8		Beech	Low	5 - 10 feet	Sapling
Red Oak	2	Log/Pole	14		White Pine	Medium	5 - 10 feet	Sapling
White Oak	20	XLog/Log	18		White Oak	Medium	5 - 10 feet	Sapling

Stand was cut in 2016 with all white pine left along with green marked trees white oak. This created two aged stand of overstory white pine along with a few white oak and mixed red maple/oak regeneration from harvest.  
Overstory pine variable diameters and spacing.

**13** 6229 - Mixed lowland shrub Nonstocked 4.6 0 Unspecified No Overall, non forested although handful of trees scattered in.

**14** 4310 - Pine, Oak Mix Sawtimber Well 24.2 96 111-140 N/A Stand was originally planted to white pine in 1927.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Log	12		White Pine	Medium	Variable	Sapling
Red Oak	17	XLog/Log	22		Red Maple	Medium	10 - 20 feet	Sapling
White Oak	25	XLog/Log	20		White Spruce	Trace	Variable	Sapling
White Pine	55	Log/XLog	14	96				
Red Pine	2	Log/XLog	14					

White pine/ mixed oak stand containing Spring Lake Forest Campground. Some oaks have been removed adjacent to campsites for hazard tree purposes. Original stand was split E/W and southern portion of stand was treated. Old Comment - North half of stand is Spring Lake State Forest Campground and boat launch.

**15** 42110 - Planted Red Pine Sawtimber Well 32.9 100 111-140 N/A Stand was planted to red pine and jack pine in 1923. Stand was last marked thinned in 2000, with all aspen/ red maple cut by spec with mature oak and white pine over 12 inches diameter cut as well. Today left with nice red pine stand with thick red maple and oak understory likely developed from last thinning in 2000.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	1	Log	14		White Pine	Medium	Variable	Sapling
Red Pine	90	Log	15	100	White Oak	High	10 - 20 feet	Sapling
White Pine	9	Log	15		Red Maple	High	10 - 20 feet	Sapling

**16** 500 - Water Nonstocked 14.8 Unspecified No Spring Lake.

**17** 4310 - Pine, Oak Mix Sawtimber Medium 26.0 96 51-80 N/A Stand was originally planted to white pine in 1927. Today mixed oak and planted white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	55	Log/Pole	13	96	Red Maple	High	10 - 20 feet	Sapling
Red Oak	18	Log	16		White Pine	Medium	Variable	Sapling
White Oak	27	Log	16					

Stand was cut in 2011 with oak/ pine thinned and all red maple cut by spec. This harvest created new age class of red maple and white pine. BA variable with some pockets of stand all pine and others mostly oak. BA on the lower end of 50 to 80 scale. NCT runs through stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
18	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	2.4	96	111-140	N/A	Stand was planted to WP in 1927. Stand is isolated and inaccessible for equipment due to lowland, lake and PVT property being adjacent to stand. in-accessable stand along the NE side of Spring Lake																																																					
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19	4122 - Oak, Pine	Sawtimber Medium	3.7	94	51-80	N/A	Stand was cut in 1996 with all aspen, red maple and paper birch cut by spec.  Created two aged stand of overstory oak and white pine with mixed aspen/red maple and oak understory from mid 1990s harvest.																																																					
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20	4310 - Pine, Oak Mix	Sapling Medium	15.3	5	Immature	N/A	Stand was final harvested in 2016. - currently prescribed to be replanted to red pine at plantation spacing. Stand was trenched on 7/18/2017, ready to be planted at this time.  (7/23/2018) Received planting summary on 7/16/2018, stand was planted in spring 2018 and inspected on 5/23/2018 with inspection stating that planting specs had been met. 1 year monitoring treatment has been added to stand area.																																																					
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21	6229 - Mixed lowland shrub	Nonstocked	11.8	0	Unspecified	No	Scattered trees but not enough to consider forested stand.																																																					
22	500 - Water	Nonstocked	3.9		Unspecified	No	West Twin Lake.																																																					
23	4310 - Pine, Oak Mix	Sawtimber Medium	19.3	95	51-80	N/A	Portions of stand was originally planted to red/jack pine in 1928.  Stand was cut in 1998 , at that time all aspen, mixed hardwood and jack pine was cut along with Oak over 16 inches in diameter and white pine 12 inches in diameter and greater.  Very mixed stand, portions in north red pine is dominate with others being dominated by mixed oak. Heart of stand has significant oak die back could be oak wilt of just pocket of decline.																																																					
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24	4310 - Pine, Oak Mix	Poletimber Medium	14.7	55	1-50	N/A	Stand was cut in 1999 all jack pine/ white pine and red maple was cut along with all oak over 14 inches in diameter. Left with very variable stand. Mature red pine dominates in north with south being mix of oak of various size classes. Difficult to type stand ended up using oak as major species. Past management has left stand with variety of age classes.																																														
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25	122 - Road/Parking Lot	Nonstocked	29.7		Unspecified	No	US-131 and another paved road that goes along the south portion of Fife Lake.																																														
26	42110 - Planted Red Pine	Sawtimber Poor	14.1	95	1-50	N/A	Stand was originally planted to red/jack pine in 1928.  Stand was seed tree/shelterwood cut in 2017 with scattered green marked trees left. (10 to 30 BA)  Harvest created new age class of mixed red maple/oak and some white pine. (This is future of stand)																																														
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27	4126 - White, Black, N. Pin Oak	Sawtimber Well	8.9	109	81-110	N/A	Relatively small stand is on a slope towards lake/lowland. Large white pine scattered throughout. (Many legacy or future legacy trees) White oak are most numerous of oak species, growing well. White pine regen is doing good, dense in places. Lots of wildlife use, large stick nest in white pine near northern stand edge.																																														
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28	42140 - Planted Mixed Pine	Sawtimber Medium	26.0	95	81-110	N/A	Stand was planted to red pine/ jack pine in 1928.  Stand was cut in 1998 all oak, red maple, aspen, white pine and jack pine was cut along with white pine over 12 inches in diameter. Mixed pine overstory with mixed oak/red maple understory.																																														
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29	42290 - Natural Mixed Pine	Sawtimber Poor	45.8	65	1-50	N/A	Red pine within stand was planted in 1915 otherwise most of white pine component is natural. Stand was cut in 2016 with all red and white pine left along with green marked oak. 2016 harvest created two aged stand of red and white pine over white pine/oak/aspens. Red pine looks to of planted origin while most of white pine is natural origin.																																														
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30	6229 - Mixed lowland shrub	Nonstocked	0.8	0	Unspecified	No	Two small lowland bog with scattered trees. Small but worth noting to avoid with timber sales in future.																																														





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
31	42110 - Planted Red Pine	Sawtimber Poor	76.1	108	1-50	N/A	Stand was planted to red pine/white pine in 1915.																																							
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32	500 - Water	Nonstocked	1.0		Unspecified	No	Grass Lake. There is housing nearby and is partially on private lands.																																							
33	6229 - Mixed lowland shrub	Nonstocked	6.3		Unspecified	No	Moderate amounts of tag alders and an unknown shrub. Mixed in with sedges and cattails.																																							
34	4310 - Pine, Oak Mix	Sawtimber Medium	118.2	108	51-80	N/A	Stand was planted to white pine and jack pine in 1915 and 1917.																																							
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35	42110 - Planted Red Pine	Sawtimber Well	2.7	102	81-110	N/A	Stand was retention left for stand 75. Stand cannot be harvested until stand 75 will be able to be harvested again.																																							
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36	4122 - Oak, Pine	Sawtimber Well	42.7	114	81-110	N/A	Most of stand planted to white pine in 1929.																																							
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37	6127 - Lowland Pine	Poletimber Medium	14.2	86	51-80	N/A	Variable lowland conifer stand with some e-type species throughout. Some variability in terms of overall stocking, scattered open pockets with reduced BA. Very narrow strip along edge of stand contains some upland species including red pine, majority of which is along southern edge of stand, adjacent to pre-inventory stand 126. Some wildlife use w/in stand. Black spruce and tamarack regen common in understory.																																																									
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38	42100 - Planted White Pine	Sawtimber Poor	25.0	109	1-50	N/A	Stand was planted in 1914 to white pine.  Stand was seed tree/shelterwood cut in 2016 with scattered pine along with some oak left in overstory. In 10 to 30 BA range left.  Left with two aged stand. Stand has nice mixed regen from 2016 harvest of white pine/oak and red maple.																																																									
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39	42200 - Natural White Pine	Sawtimber Poor	12.8	85	1-50	N/A	Stand was original planted to white pine in 1914.  Stand was shelterwood harvested in 1999 with scattered white pine left. Some of the WP left may be of planted origin while others appear to be advanced natural grown trees left from 1999 harvest. Age of white pine therefore hard to pin down in this stand.																																																									
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40	500 - Water	Nonstocked	6.8		Unspecified	No																																																										
41	6220 - Alder/willow	Nonstocked	13.0		Unspecified	No	Old hawk nest in white pine along west edge. A trace of paper birch. Some poor red maples. Mostly tag alders with sedges/ferns underneath. Unlisted is fern.																																																									
42	42110 - Planted Red Pine	Sawtimber Well	15.8	101	81-110	N/A	Stand was planted to white pine/red pine and jack pine in 1922.  Stand was thinned in 1997 with all red maple and jack pine cut as well as time.. Some very nice red pine stems in east side good height.  Red pine stocking variable, oak component concentrated on west side alone ridge top																																																									
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<b>43</b>	42100 - Planted White Pine	Sawtimber Well	57.0	109	111-140	N/A	Stand was planted in 1914 to white pine. Making this one of the oldest plantations in State Forest system. NCT runs through stand. White pine plantation was third row thinned in 1998 with all oak and red maple cut at that time as well. Nice well put together white pine plantation. Oak, White pine and red maple understory developed from 1998 harvest.																																																				
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<b>44</b>	4124 - Red with White Oak	Sawtimber Medium	41.1	101	1-50	N/A	North half was cut in 2008 and south was cut in 2010 oak was thinned with aspen/red maple/ pine cut by spec. Stand was originally planted to red pine and jack pine in 1922.																																																				
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<b>45</b>	622 - Lowland Shrub	Nonstocked	1.6	0	Unspecified	No	Today stand is mixed oak stand with scattered white pine and a few red pine. Thick white pine understory developed from last harvest .																																																				
<b>46</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	17.6	109	81-110	N/A		Majority of stand was planted in 1914 and then again in 1916 to white pine/jack pine. Today mixed oak with planted white pine concentrated in north. NE portion of stand slopes down to 131. Few jack pine left standing otherwise most has fallen out. Few legacy WP as well. No evidence of past management.																																																			
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<b>47</b>	6229 - Mixed lowland shrub	Nonstocked	11.1		Unspecified	No	Stand is the result of an historical beaver flooding. Remnants of old beaver dam can be seen at the very southern end of stand. Some dead standing cedar stems give clues to the fact that this stand most likely once looked very similar to pre-inventory stand 45b, directly to the south. Stand is occupied by lowland grasses, cattails, alder, dogwood and other lowland shrub species. Old comment-Did not visit. It would probably fit in this category.																																																				
<b>48</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	38.2	5	1-50	N/A		Stand was originally planted to white pine in 1919. Stand was final harvested/ seed tree cut in 2018 along with all white oak and white pine left. As well retention area was left along southern border large enough to be new stand.																																																			
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<b>49</b>	4122 - Oak, Pine	Sawtimber Well	6.8	104	51-80	N/A	Strip of mixed oak, scotch pine, red/white pine that appears to have no past management. Scotch pine mostly falling out. Stand appears to have been left as buffer to 131 over the years.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		10	Log/XLog	14		White Pine		
White Pine		18	Log/Pole	13		White Oak		
Red Oak		13	XLog/Log	20				
White Oak		47	XLog/Log	18	104			
Scotch Pine		12	Log/Pole	13				
<b>50</b>	6127 - Lowland Pine	Poletimber Poor	7.0	58	1-50	N/A	Mutiple part treed bog. Filling in over the years with white pine and mix of other species. Close to non forested in spots.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		40	Pole	6	58	Balsam Fir		
Red Maple		20	Pole	8		White Pine		
Northern White Cedar		15	Pole	8		Tag Alder		
Red Pine		10	Log/Pole/XLog	12				
Black Spruce		15	Pole/Sapling	6				
<b>51</b>	6229 - Mixed lowland shrub	Nonstocked	15.9		Unspecified	No	Moderate amounts of tag alders and an unknown shrub. Mixed in with sedges and cattails.	
<b>52</b>	6124 - Lowland Spruce-Fir	Poletimber Medium	11.6	80	51-80	N/A	Lowland conifer stand, very dense. Standing water-frozen throughout stand at time of inventory. Some black ash-declining. Classified canopy closure as 50-75%, average of stand is in the upper end of this range.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Tamarack		20	Pole	8	80	Balsam Fir		
Northern White Cedar		5	Pole	7		Black Spruce		
Black Spruce		40	Pole	6	80			
Balsam Fir		30	Pole	5				
Red Maple		5	Pole	6				
<b>53</b>	4310 - Pine, Oak Mix	Sawtimber Well	16.2	76	81-110	N/A	Most of stand was planted to jack pine in 1925. Most of jack pine has fallen out at this point just and handful remain. Small grove of legacy white pine along swamp edge. Access road in middle stand access to lake.  Jack pine, white pine, red pine, oaks and red maple along w/ a few small aspen clones make up stand. Variable species composition, very mixed stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		15	XLog/Log	20		Oak (spp.)		
White Oak		20	Log/Pole	12		White Pine		
Red Pine		12	Log/XLog	16				
Jack Pine		10	Log	11				
White Pine		25	Log/Pole/XLog	11	76			
Quaking Aspen		8	Log/Pole	11				
Red Maple		10	Pole/Log	9				
<b>54</b>	500 - Water	Nonstocked	51.8		Unspecified	No	Headquarters Floodings.	



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<b>55</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	32.2	104	51-80	N/A	Very dense lowland stand, basically a seep heading towards fife lake creek. Cedar and balsam fir are significant components with quite a variety of e-type species present as well. Some larger WP present along edges and scattered throughout interior. Southern lobe of stand is slightly more upland but still contains high water table and some lowland indicator species. Some lowland conifers present in this portion of stand along with some larger white pine.																																																																		
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<b>56</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	46.7	102	51-80	N/A	Stand was planted to white and red pine in 1921. Rolling terrain stand. Pine was thinned in 1998 all aspen, red maple and jack pine was cut as well by spec. This harvest created second age class of mixed red maple/ aspen and some white pine. Mixed pine/oak stand, growing well overall. Oak is in descent shape after previous harvest. Pine is growing well throughout. Understory has a descent amount of WP, red maple and balsam fir with scattered oak and beech seedlings.																																																																		
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<b>57</b>	429 - Mixed Upland Conifers	Sawtimber Well	5.9	103	51-80	N/A	Small mixed stand that has been missed with recent harvests. Upland but sensitive being near stream. A few legacy pine.																																																																		
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<b>58</b>	500 - Water	Nonstocked	5.9		Unspecified	No	Bottom part of Pickeral Lake.																																																																		



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<b>59</b>	42250 - Pine, Oak	Sawtimber Medium	24.1	106	51-80	N/A	Portion of stand was planted to white pine in 1916. (only 7 acres in southwest). Otherwise it appears to be a natural stand. Peninsula surrounded on all sides by headquarters lakes.																																																			
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<b>60</b>	6229 - Mixed lowland shrub	Nonstocked	0.9		Unspecified	No																																																				
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<b>61</b>	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	21.6	103	111-140	N/A	Stand was planted to white pine in 1915, and then planted to red pine in 1920.																																																			
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<b>62</b>	42100 - Planted White Pine	Sawtimber Well	43.2	102	81-110	N/A	Stand was planted to white pine and jack pine in 1921.																																																			
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<b>63</b>	500 - Water	Nonstocked	51.5		Unspecified	No	Headquarters Flooding. This area has high recreational and hunting values.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>64</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	27.6	109	51-80	N/A	Mixed stand w/ variable density and species composition. . Some large legacy white pine present. Variable lowland complex, too wet for commercial management.																																																												
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<b>65</b>	4124 - Red with White Oak	Sawtimber Medium	5.6	103	1-50	N/A	Former grounds of Fife Lake Headquarters. Today nothing left beyond old concrete slab which is assumed to be site of some of the old buildings.  Scattered mature oak with white pine filling in the understory.																																																												
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<b>66</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.8	85	81-110	N/A	Two small upland islands of mixed oak/ maple and pine. Too small and not worth disturbance to access with commercial management. Beaver activity noted on big island.																																																												
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<b>67</b>	6233 - Wet Meadow	Nonstocked	186.5		Unspecified	No	Marsh area that depending on water lever can hold water. Some tamarack and other lowland trees in small patches.																																																												
<b>68</b>	6229 - Mixed lowland shrub	Nonstocked	5.4		Unspecified	No	Lowland/emergent wetland on western side of flooding (eastern lobe of Fuller Lake)																																																												
<b>69</b>	122 - Road/Parking Lot	Nonstocked	0.3			No																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>70</b>	429 - Mixed Upland Conifers	Sawtimber Well	10.6	92	81-110	N/A	Stand was planted to mix of red/white and jack pine in 1931.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	30	Log	12	92	Balsam Fir	Medium	10 - 20 feet	Sapling
Northern Pin Oak	15	Pole/Sap/Log	8		White Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	15	Pole/Log	10		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole	6		White Pine	Low	Variable	Sapling
White Pine	25	Log/Pole/XLog	14		Quaking Aspen	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6					

Mixed stand of planted red pine/white pine. No records but appear stand has been thinned with all jack pine cut out. Some legacy white pine mixed in stand.

<b>71</b>	6229 - Mixed lowland shrub	Nonstocked	1.8	0	Unspecified	No	Two small lowland shrub.
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<b>72</b>	42110 - Planted Red Pine	Sawtimber Well	54.8	92	51-80	N/A	Stand was originally planted in 1930 and 1932 to red pine and jack pine. A few acres in south end of stand was underplanted to red pine in 1998. Much is of this is stunted. Stand was cut in 1998 all jack pine/scotch pine was cut my spec along with all oak and red pine being marked thinning.Red pine stand, hovering around 60-90 BA with some areas more open. Bigger diameter and size compared to adjacent older planation's. Dense oak understory in majority of stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	4	Log	16		Red Pine	Low	Variable	Sapling
White Pine	2	Log	15		Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	90	Log/XLog	17	92	Balsam Fir	Trace	Variable	Sapling
White Oak	2	Log	14		Jack Pine	Low	Variable	Sapling
Scotch Pine	2	Log/Pole	12		White Pine	Low	10 - 20 feet	Sapling
					White Oak	High	Variable	Sapling

<b>73</b>	4133 - Aspen, Mixed Pine	Sapling Well	4.8	24	Immature	N/A	Stand was final harvested in 1999 with a few pines left. Narrow aspen stand sandwiched between RP and lowland stand. Aspen growing well, fir and WP common throughout in various size classes.  Stand approaching pole but still in sap class, will be pole size overall soon.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	Pole/Log/XLog	8	
White Pine	15	Sapling/Pole	4	
Balsam Fir	7	Sapling/Pole	4	
Bigtooth Aspen	70	Sapling/Pole	4	24
Red Pine	1	Sapling	2	
Red Pine	5	Log	15	

<b>74</b>	6127 - Lowland Pine	Poletimber Poor	13.9	56	1-50	N/A	Old leatherleaf bog that has slowly filled in to be more of a forested stand. Some portions are still unforested but overall the two make a slightly forested stand. As time goes on, they will continue to be more forested.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	15	Pole/Sapling	6		Jack Pine	Low	< 5 feet	Sapling
Jack Pine	10	Pole	6	55	White Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Log/Pole	10					
White Spruce	15	Pole	8					
White Pine	55	Pole/Sap/Log	8	56				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
75	330 - Low-Density Trees	Nonstocked	38.0	0		No	6/14/2022 - Stand was Site Prep Sprayed with Contract Trencher. 2021 - Stand Was Trenched Stand to be replanted, was final harvested in winter 2018/19. Nice red pine stand, treated last yoe. Growing well, recommend allowing to develop another yoe and focus on utility pole removal. Some variability in BA and understory density.			
76	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	46.4	92	51-80	N/A	Stand originally planted to jack pine, white pine, and red pine in 1930.  Stand was thinned in 2011... All aspen, jack pine, red maple and marked trees on west side of road were cut along with 16" diameter cut on oak on east side of road. Mostly red pine overstory again not very impressive size for age. Oak scattered in well as we as occasional white pine.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		White Oak	15	Log/Pole/XLog	13		White Oak	Full	5 - 10 feet	Sapling
		White Pine	10	Log	13		White Pine	Full	5 - 10 feet	Sapling
		Red Oak	15	Log	14					
77	42110 - Planted Red Pine	Sawtimber Well	51.8	102	81-110	N/A	Stand was planted to mix of white pine/red pine and jack pine in 1921.  Stand was cut in 1999... All aspen, maple, jack pine and white pine was cut along with red pine being thinned. Red pine stand growing well, some variation in canopy closure resulting in pockets of dense regen. Cut in 1999 today has resulted in two aged stand with full developed aspen/red maple/ white pine understory. Aspen being most dominate.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		White Oak	2	Log	14		Balsam Fir	Low	5 - 10 feet	Sapling
		White Pine	2	Log	14		White Oak	Low	Variable	Sapling
		Red Oak	5	Log/XLog	14		Bigtooth Aspen	High	>20 feet	Sapling
		Red Pine	91	Log/XLog	15	102	White Pine	Medium	Variable	Sapling
							Red Maple	Medium	10 - 20 feet	Sapling
78	6224 - Treed Bog	Nonstocked	1.4	0		No	Bog filling in with trees.			
79	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	13.9	104	111-140	N/A	Nice mixed stand growing well with red and white pine dominant along with oaks, scattered red maple and a few aspen clones present. Recommend leaving stand as is - it is providing a nice transition along lake/lowland with a great deal of wildlife use throughout. Quite a few snags along western edge of stand are providing nesting cavities.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Bigtooth Aspen	8	Log/XLog	15		White Oak	Low	Variable	Sapling
		Jack Pine	2	Log	15	104	White Pine	High	10 - 20 feet	Sapling
		Red Pine	55	Log/XLog	14	104	Red Maple	Medium	10 - 20 feet	Sapling
		White Pine	15	Log/XLog	14	104				
80	623 - Emergent Wetland	Nonstocked	1.0		Unspecified	No				
81	42290 - Natural Mixed Pine	Sawtimber Well	2.3	95	81-110	N/A	Small leatherleaf bog filling in with white pine in center of stand. Perimeter upland pine and aspen left as long-term retention for final harvest of stand 88.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Balsam Fir	2	Pole/Sapling	6		White Pine	Medium	Variable	Sapling
		Black Spruce	10	Pole/Sap/Log	8		Blueberry/Bilberry/Cranberry	Low	5 - 10 feet	Tall Shrub
		Red Pine	15	Log	15		Balsam Fir	Low	5 - 10 feet	Sapling
		White Pine	53	Log/Pole/Sap	12	95				
		Bigtooth Aspen	20	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**82** 6233 - Wet Meadow Nonstocked 4.9 Unspecified No Lots of dead wood. Dry, but would have been filled with water in spring. Clumps of leatherleaf, mostly along perimeter.

**83** 42101 - Planted White Pine, Mixed Deciduous Sawtimber Medium 47.8 107 51-80 N/A Stand was planted to white pine/doug fir in 1916 and then planted again in 1928 to red pine/jack pine. NCT trail along east line. Primarily white pine overstory with scattered oak and some red pine, full white pine/oak understory from last harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log/Pole	11		White Oak	High	Variable	Sapling
White Oak	20	XLog/Log	18		White Pine	Full	Variable	Sapling
White Pine	60	Log	16	107	Red Maple	Trace	5 - 10 feet	Sapling

STAND was thinned in 1999 with all jack pine/aspen cut by spec.

No Doug fir found during inventory .

**84** 4123 - Red Oak Sawtimber Well 8.4 110 81-110 N/A Mixed log oak ridge with some pine scattered. Stand slopes down to wetland. Whole stand was left as retention for stand 48 harvest. Some legacy WP along edges.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	XLog/Log	18	
Red Oak	70	Log/XLog	17	110
White Oak	19	XLog/Log	18	
Red Pine	1	Log/XLog	15	

**85** 4199 - Other Mixed Upland Deciduous Poletimber Well 8.1 34 Immature N/A Stand was final harvested in 1988 with scattered red pine left.... Buffer left along road to east. Stand was harvested and trenched/planted with red pine. Planting occurred in 1993 . Appears little to no planted red pine survived.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	37	Pole/Sapling	5	34	Red Pine	Low	5 - 10 feet	Sapling
Red Pine	8	Log/XLog	15					
Bigtooth Aspen	35	Pole/Sapling	5	34				
Jack Pine	3	Sapling/Pole	4					
Red Oak	15	Sapling/Pole	4	34				
White Pine	2	Sapling/Pole	3					

Some sapling red pine is holding on but has been overtopped by hardwood/aspen regen. Scattered overstory red pine present throughout stand. Old comment - stand was trenched and planted to red pine in 1993 but hardwood overtopped pine.

**86** 122 - Road/Parking Lot Nonstocked 2.2 Unspecified No

**87** 4310 - Pine, Oak Mix Sawtimber Medium 42.9 102 1-50 N/A Stand was cut in 2007 with all red/white oak and pine left. Created very mixed variable stand. Some pockets heavier to pine in overstory with other being mostly oak. Mixed understory as well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	48	Log/XLog	14	102	Jack Pine	Medium	Variable	Sapling
White Pine	7	Log/Pole	10		Red Pine	Low	5 - 10 feet	Sapling
Red Pine	40	Log/Pole/XLog	11		White Oak	Medium	5 - 10 feet	Sapling
Northern Pin Oak	5	Log/XLog	15		White Pine	Medium	Variable	Sapling

**88** 4136 - Aspen, Mixed Conifer Sapling Medium 12.8 5 Immature N/A Aspen stand final harvested in 2018/19, red and white pine retention along with scattered balsam fir.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	4	
White Pine	10	Log/Pole/Sap	12	
Red Pine	5	Log/XLog	15	
Bigtooth Aspen	80	Sapling	1	5



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**89** 6229 - Mixed lowland shrub Nonstocked 2.9 Unspecified No Moderate amounts of tag alders and an unknown shrub. Mixed in with sedges and cattails.

**90** 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 22.4 107 51-80 N/A Stand was planted to red pine and white pine in 1916. Stand was last thinned in late 2000, with all jack pine cut by spec. Nice red pine stand not particularly large diameter but unique as a result of age.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/XLog	16		White Oak	Medium	5 - 10 feet	Sapling
Red Pine	65	Log	14	107	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	10	Log/XLog	15		White Pine	Medium	5 - 10 feet	Sapling

Old RR grade runs through stand.

**91** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 18.4 116 Unspecified N/A Mixed lowland conifer stand split by small creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Pole	8		Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	15	Pole	6	116	Balsam Fir	Medium	10 - 20 feet	Sapling
Black Ash	15	Pole/Sapling	5					
Red Maple	10	Pole	6					
Balsam Fir	15	Pole	5					
Black Spruce	15	Pole/Sapling	5					
Tamarack	15	Pole	6					

**92** 500 - Water Nonstocked 47.4 Unspecified No

**93** 4311 - Pine, Aspen Mix Sawtimber Well 1.9 86 81-110 N/A Small upland ridge of aspen, red pine, balsam and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	8	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Red Oak	5	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Red Pine	35	XLog/Log	20		Red Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	37	XLog/Log	18	86	White Pine	Medium	10 - 20 feet	Sapling
Red Maple	15	Log	14					

**94** 42110 - Planted Red Pine Sawtimber Medium 26.7 108 1-50 N/A Stand was planted in 1915 to red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	95	XLog	18	108	White Pine	Low	5 - 10 feet	Sapling
Jack Pine	5	Log/Pole	10		Jack Pine	Low	Variable	Sapling
					Black Cherry	Low	10 - 20 feet	Sapling
					Red Pine	Low	Variable	Sapling
					Northern Pin Oak	Medium	Variable	Sapling
					White Oak	Medium	Variable	Sapling

Stand was mark thinned in 1997. With failed attempt to under plant red pine in 1999.

One of oldest plantations in the unit. Unlike some of the other plantations of this vintage the diameters are what one would expect in this stand with most trees between 18 to 20 inches in diameter. Understory variable from some areas thick to oak and others filling in with jack pine and some of the stunted planted red pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
95	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	20.9	56	51-80	N/A	Mixed lowland e-type stand with cedar and fir common throughout along with scattered spruce. Very wet throughout stand, some areas of standing water. Dropped canopy closure to 50-75% due to ash mortality. Heavy blowdown looks too wet to support mature trees.																																																
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96	42110 - Planted Red Pine	Sawtimber Well	5.5	95	51-80	N/A	Red pine planted along old RR grade in 1928... Good quality red pine with limited understory in spots.																																																
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97	42220 - Natural Jack Pine	Sapling Well	7.6	26	1-50	N/A	Stand was final harvested in 1997, with all red pine left along with some younger oak at that time... Naturally regenerated JP stand resulting from harvest with oaks scattered throughout as well. Variable density in regen in places. Some pole sized red pine and oaks along edges of stand, remaining from previous harvest.																																																
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98	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Medium	20.8	107	1-50	N/A	Remnants of red and white pine that was planted in 1916.. Stand was cut in 2008 with all jack pine and Scotch pine cut.  Today two aged stand with red pine still dominate tree although oak and white pine also scattered in. Small wet spot in southeast portion of stand.																																																
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<b>100</b>	4130 - Aspen	Sawtimber Well	9.3	56	Unspecified	N/A	Isolated land locked ridge of decent quality aspen, few scattered oak and red maple but mostly aspen. No records but stand must have been accessed from private to east. (Road already in place)																																										
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<b>101</b>	4310 - Pine, Oak Mix	Sawtimber Well	5.1	110	81-110	N/A	New stand created from harvest to north. This is side slope/buffer left to protect flooding to south.																																										
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<b>102</b>	42220 - Natural Jack Pine	Poletimber Well	33.9	32	Immature	N/A	Stand was final harvested in 1990. And planted to red pine in may 1990. Jack pine has overtaken site.  Red pine plantation, jack pine has taken over majority of canopy at this point. Old comment - Area was planted to red pine - had high mortality and jack pine has taken over site																																										
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<b>103</b>	42220 - Natural Jack Pine	Poletimber Well	26.9	32	Immature	N/A	Stand was final harvested in 1990. Stand was planted to red pine in May of 1990. Jack pine primary red pine scattered.  RP plantation, jack pine has regenerated evenly throughout stand as well. Red pine is entirely in furrows with jack pine in between. Old comment - Red Pine is planted - Jack Pine is natural.																																										
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<b>104</b>	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	6.4	106	51-80	N/A	Stand was planted in 1916 to white pine and jack pine.  Jack pine has been cut out, today left with nice mature white pine/oak stand including what appears to be a handful of legacy white pine in stand. This stand was left as long term retention for stand 29.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**105**      4319 - Mixed Upland Forest      Sawtimber Well      4.8      98      51-80      N/A      Buffer along NCT trail. Lowland along east edge. Was buffer left from harvest to west.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	15		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	40	Log/Pole/XLog	16	98	White Pine	Medium	Variable	Sapling
Red Maple	30	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	5	Pole/Log	9					
Balsam Fir	8	Pole/Sap/Log	8					
White Oak	5	Log	15					
Scotch Pine	2	Log	15					

**106**      4133 - Aspen, Mixed Pine      Sapling Well      8.9      26      Immature      N/A      Stand was final harvested in 1997. Pine/oak were left as residual following harvest-providing some enhanced vertical structure and diversity in stand as well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Sapling/Pole	4	26	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	3	Sapling	3					
Jack Pine	10	Sapling/Pole	4	26				
Red Pine	5	Log	15					
Red Oak	6	Log	14					
Balsam Fir	1	Sapling	2					
White Oak	5	Log	15					
White Pine	10	Sapling	2					

Stand is semi open on west edge, appears from beaver activity on the aspen regen. Stand is mix of pine/aspen/red maple and oak.

**107**      42110 - Planted Red Pine      Sawtimber Well      1.2      95      111-140      N/A      Stand planted to red pine and jack pine in 1928.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	16		White Pine	Medium	Variable	Sapling
Jack Pine	25	Log	12					
White Pine	5	Log	16					
Red Pine	60	Log/XLog	16	95				

Stand is an isolated upland island w/in large surrounding lowland complex. Stand was edge called no access. Nice to leave as small legacy stand of mature pine/oak.

**108**      6121 - Tamarack      Poletimber Medium      6.5      75      Unspecified      N/A      Very wet stand, inaccessible unless completely frozen. Stand is made up of lowland conifers with some more open areas becoming occupied by alder, some cattails. Too wet for commercial management and too wet to hold larger trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole	6		Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	10	Sapling	3					
Tamarack	80	Pole	7	75				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**109** 42250 - Pine, Oak Sapling Well 52.7 14 1-50 N/A Stand was planted to red pine/white pine in 1916.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	40	Sapling	2	14
White Pine	3	Sapling/Pole	3	
Black Cherry	2	Sapling	2	
Northern Pin Oak	15	Sapling/Pole/Log	3	
White Oak	22	Sapling/Pole/Log	3	14
Red Pine	18	Log/XLog	17	107

Stand was cut in 2008 with all red pine and oak left. Created multiple age class stand although primary age class is from 2008 harvest.

**110** 42221 - Natural Jack Pine, Mixed Sapling Well 10.4 26 1-50 N/A Stand was final harvested in 1996. Scattered red pine oak was left. Came back to jack pine.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling/Pole	4	
White Oak	10	Sapling/Pole	4	
Jack Pine	60	Sapling/Pole	4	26
Red Pine	5	XLog/Log	18	
Northern Pin Oak	15	Sapling/Pole	4	

**111** 42110 - Planted Red Pine Sawtimber Well 29.6 106 111-140 N/A Stand was planted in 1917 to red pine and jack pine. One of oldest plantations in this area.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/XLog	15	106

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

Nice red pine stand, growing fairly well. Dense oak understory w/ some variability in places. Stand was third row thinned in 1996 and then thinned again thinned 2007.

One of if not the oldest planation in the area. Cultural significance to this stand as old sign has been placed out in front of stand noting its age.

**112** 6128 - Lowland Coniferous, Mixed Poletimber Well 11.2 129 51-80 N/A Mixed lowland stand. Stand is variable and acts as buffer to Fife Lake Creek.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	8	
Northern White Cedar	44	Pole	8	129
Hemlock	10	Pole/Log	8	
Paper Birch	5	Pole/Log	9	
Red Pine	1	Log/Pole	14	
Quaking Aspen	15	Pole	10	
Red Maple	10	Log/Pole	12	
White Pine	10	Log/Pole/XLog	15	

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





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
<b>113</b>	4310 - Pine, Oak Mix	Sawtimber Well	22.1	105	81-110	N/A	Heavily mixed oak, red maple, white/red pine and some jack pine. Jack pine has for most part fallen out of stand. NCT trail runs in stand as well as handful of legacy white pine along NE edge. Small lowland depression in north end too small to map.																																																																	
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<b>115</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	24.7	98	51-80	N/A	Lowland conifer stand with scattered e-type species. small/narrow creek runs through central portion of stand, heading westward. Very wet throughout stand. Small upland of mixed pine and hardwood along north edge of stand too small to map.																																																																	
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<b>116</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	10.3	95	81-110	N/A	Stand was planted in 1928 to mix of red pine and jack pine. Today jack pine has all fallen out with red pine scattered and doing well. Mixed oak/sugar maple and white pine in stand as well. East edge of stand is old field that filled on over time.																																																																	
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<b>117</b>	122 - Road/Parking Lot	Nonstocked	0.6		Unspecified	No	Road and ditch.																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**118**      4311 - Pine, Aspen Mix      Sawtimber Medium      6.8      94      51-80      N/A      Stand was originally planted to mix of red/white and jack pine in 1931.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	25	XLog/Log	20		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	25	Log/XLog	15		Oak (spp.)	Medium	5 - 10 feet	Sapling
Red Maple	5	Log	13		White Pine	Medium	5 - 10 feet	Sapling
Paper Birch	3	Log	10					
White Pine	29	Log	15	94				
Red Oak	13	Log	12	94				

Mixed semi open by road mixed stand. No recent records of management since planting in 1931.

**119**      42110 - Planted Red Pine      Sawtimber Medium      22.9      93      51-80      N/A      Stand was planted to red/white and jack pine in 1931. Much of jack pine has fell out but some still remaining. No record of previous management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	9	Log/Pole	10		White Oak	High	Variable	Sapling
Quaking Aspen	4	Log/XLog	15		White Pine	Medium	Variable	Sapling
White Oak	5	Log/Pole	10					
Northern Pin Oak	5	Pole/Log	8					
White Pine	10	Log/XLog	15					
Red Pine	65	XLog/Log	18	93				
Red Maple	2	Log	12					

Red pine stand with portions of riparian edge included w/in stand boundary. Some oaks present, jack pine evenly scattered throughout in somewhat low numbers. Oak regen is dense in most areas of stand, growing well.

**120**      6220 - Alder/willow      Nonstocked      59.4      Unspecified      No      Stand comprises lowland area along creek. Made up of open areas of alder and creek bottomlands. Stand boundary also includes transition zone between lowland and upland which in places does include lowland conifers along with scattered red maple, oak species and red and white pine. Groves of hemlock also present in places. Lot's of wildlife use throughout creek corridor, found 2 unmarked foot bridges across creek. Old comment-Made observations from County Line Road. May have more of a mixed shrubland towards Headquarters, with a little bit of cedar. I believe Alder/willow is the right level 4 call.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Log
Black Ash	Trace		Sapling
Hemlock	Low		Pole
Red Pine	Low		Log
Red Maple	Medium		Sapling
Northern White Cedar	Low		Sapling
Quaking Aspen	Low		Pole
Balsam Fir	Low		Sapling

**121**      4130 - Aspen      Poletimber Well      29.2      35      Immature      N/A      Stand was final harvested in 1988 all hemlock was left. Nice pocket of hemlock in NE corner. Aspen stand, sapling size growing well and should convert to A6 next inventory cycle. Scattered balsam fir throughout along with WP and RM. Some high water table indicators, similar to adjacent stand to the south that was harvested recently.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Sapling	3		Balsam Fir	Low	5 - 10 feet	Sapling
Hemlock	5	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	10	Pole	5	35				
Balsam Fir	3	Pole	5					
Bigtooth Aspen	80	Pole	7	35				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**122** 42121 - Planted Jack Pine, Mixed Deciduous Sawtimber Well 162.5 97 51-80 N/A

Stand was planted to jack pine in 1926. Stand was set up last year to be final harvested but for some reason was returned back to the State uncut. Jack pine holding together for most part although oak has taken over in a few pockets where jack pine has fallen out.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	4	Log/Pole	10		Red Oak	Medium	Variable	Sapling
Red Pine	10	Log/XLog	14		White Oak	Medium	Variable	Sapling
Bigtooth Aspen	6	Log	15		Red Maple	Low	Variable	Sapling
White Oak	10	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Jack Pine	65	Log/Pole	10	97	Black Cherry	Low	5 - 10 feet	Sapling

NCT trail and riparian buffer on far east end. Some legacy pine and oak in this corridor.

**123** 429 - Mixed Upland Conifers Sawtimber Poor 52.9 92 1-50 N/A

Stand was planted to mix of white/jack pine and red pine in 1931.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	20	XLog/Log	20		Balsam Fir	Medium	Variable	Sapling
Red Pine	18	Log	14		Quaking Aspen	Full	>20 feet	Sapling
Hemlock	10	Log/Pole	12		Musclewood/Hornbeam	Low	Variable	Sapling
Beech	2	Log	16		White Pine	Medium	10 - 20 feet	Sapling
Northern White Cedar	10	Log	12		Red Maple	Medium	>20 feet	Sapling
Quaking Aspen	5	Log/XLog	15		Black Cherry	Low	Variable	Sapling
White Oak	10	Log	12		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
White Pine	25	Log/Pole	15	92				

Stand was harvested in 2008 with all oak, pine, hemlock and cedar left by spec. As well seasonal drainage in western portion of stand was avoided with harvest. 2008 harvest has created a two aged stand with mostly aspen in the understory. Overstory is mix of oak, red pine, white pine and pockets of cedar/hemlock. Overall upland although lowland character and seeps present in stand.

**124** 429 - Mixed Upland Conifers Sawtimber Well 24.7 96 81-110 N/A

Portions of stand planted in 1927 to red pine. Although portions planted stand has a much more natural appearance with aspen, red maple and oak filling in the gaps between the pines. Most of stand is off small bluff towards river. Mixed pine stand with aspen and red maple common in places. Stand drops from upland down slope to lowland edge. Stand provides an excellent riparian edge between adjacent red pine stand and lowland stand along creek. Lots of wildlife use throughout stand. Some large red and white pine present in places. Other portions of stand look planted however they are variable in stocking and overall species composition. Stand is variable from north to south. A small seasonal creek flows along southern edge of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Pole/Log	9		White Pine	Medium	Variable	Sapling
Jack Pine	4	Log	13		Balsam Fir	Medium	Variable	Sapling
Red Pine	30	XLog/Log	18	96	White Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	15	Log/XLog	15		Red Maple	Low	10 - 20 feet	Sapling
Black Cherry	1	Log	13					
White Pine	25	Log/XLog	14					
Balsam Fir	5	Pole	8					
Red Maple	10	Log/Pole	12					

**125** 6112 - Lowland Aspen Sawtimber Medium 4.9 76 51-80 N/A

Lowland mixed stand avoided historically as a result of BMP concerns. - drainage - stand with small creek flowing through center of stand. alder, aspen, red maple and some upland conifers along edges make up majority of canopy. Open in places with canopy coverage varying from 50-75% overall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/XLog	14		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	45	Log/Pole/XLog	16	76	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Oak	5	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Log/Pole	10					
Red Maple	20	Log/Pole	12					
Paper Birch	10	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>126</b>	42220 - Natural Jack Pine	Poletimber Well	30.7	33	Immature	N/A	Stand was final harvested in 1990 all oak was left at that time. Came back well to aspen primarily.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		10	Log/Pole/Sap	11			
Jack Pine		85	Pole	5	33		
Black Cherry		5	Pole	5			
<b>127</b>	6225 - Bog	Nonstocked	1.8		Unspecified	No	Nice leatherleaf bog.
<b>128</b>	4130 - Aspen	Poletimber Well	0.7	49	1-50	N/A	Small ridge of aspen. Too small to manage on its own, but wanted to map to show small stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		10	Pole	6			
Quaking Aspen		90	Pole/Log	8	49		
<b>129</b>	42110 - Planted Red Pine	Sawtimber Well	79.0	92	81-110	N/A	Stand was planted to mix of white pine/jack pine and red pine in 1931.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		90	XLog/Log	18	92		
Red Oak		5	Log/XLog	15			
Paper Birch		1	Pole	8			
White Pine		4	Log/XLog	14	92		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Bigtooth Aspen		Low	>20 feet	Sapling			
Red Oak		Low	Variable	Sapling			
White Pine		Medium	< 5 feet	Sapling			
White Oak		Low	Variable	Sapling			
Black Cherry		Low	5 - 10 feet	Sapling			
Red Maple		High	Variable	Sapling			
<b>130</b>	4130 - Aspen	Sawtimber Well	59.9	48	51-80	N/A	Stand was cut in over a period from 1975 through 1977. Descent quality aspen stand with scattered WP and balsam fir throughout. Some red maple and oak as well. Similar to preinventory stand 117 to the north, this stand does have somewhat of a high water table in places which may affect management options. Old comment - SE side of stand has scattered Red and White Pinesawlogs
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		2	XLog/Log	19			
Red Pine		2	XLog/Log	18			
Hemlock		1	Log/Pole	13			
White Oak		3	Log	12			
Balsam Fir		3	Log/Pole	11			
Quaking Aspen		80	Log	12	48		
Red Oak		2	XLog/Log	22			
Red Maple		7	Log/Pole	11			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub			
Balsam Fir		Low	Variable	Sapling			
Red Maple		Low	5 - 10 feet	Sapling			
<b>131</b>	4126 - White, Black, N. Pin Oak	Sawtimber Poor	38.0	97	1-50	N/A	Stand was cut in 2008. All aspen. jack pine, red maple with all oak and red/white pine left.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		11	Pole/Log	9			
Red Oak		15	Log/XLog	16	97		
White Oak		65	Log/Pole	12	97		
Red Pine		9	Log	13			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Cherry		Medium	Variable	Sapling			
Quaking Aspen		Low	>20 feet	Sapling			
Jack Pine		Medium	10 - 20 feet	Sapling			
White Oak		High	10 - 20 feet	Sapling			
White Pine		Medium	10 - 20 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**132** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 56.8 25 1-50 N/A

Stand was final harvested in 1998 with red pine and oak left. Has resulted in a two aged stand with widely scattered red pine and oak left with a mix of aspen, red maple, jack pine and oak filling in the current stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	18	Log	14	102
White Oak	30	Sapling/Pole	4	25
Jack Pine	10	Sapling	3	25
Bigtooth Aspen	14	Pole/Sapling	5	
Red Oak	20	Sapling/Pole/Log	4	25

**133** 42140 - Planted Mixed Pine Sawtimber Medium 6.9 92 51-80 N/A

Stand was planted in 1931 to mix of red/white and jack pine. No records but appears stand was thinned and jack pine cut out in the 90s. Upland although seasonal drainage in north end and little wet along ditch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	43	XLog/Log	20		Beech	Low	5 - 10 feet	Sapling
Red Pine	44	XLog/Log	21	92	White Pine	Low	Variable	Sapling
Hemlock	5	Pole/Log	9		Red Maple	High	10 - 20 feet	Sapling
Bigtooth Aspen	7	Pole/Log	9					
White Oak	1	Log/XLog	15					

Small upland pine stand with overstory red and white pine dominant throughout, some hemlock and fir localized along western edge, adjacent to lowland shrub stand to the west. Pocket of hemlock in north end.

**134** 6229 - Mixed lowland shrub Nonstocked 4.3 No

Small stand Surrounding aspen stand has high water table in places but this stand is made up entirely of lowland shrubs and has a high occurrence of standing water throughout. Ash component all dead and standing. Stand has flow in fall rains/spring.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub

**135** 4319 - Mixed Upland Forest Sawtimber Well 1.3 85 81-110 N/A

Small ridge picked out from imagery. Not worth chasing after just wanted to upland ridge.

**136** 4126 - White, Black, N. Pin Oak Poletimber Well 11.9 75 51-80 N/A

Mixed low quality oak with scattered white pine. This stand represents a buffer that has been left alongside the railroad tracks. Oak of various size classes and diameters primary pole and small log size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log	9		Beech	Low	5 - 10 feet	Sapling
Red Pine	1	Log/Pole	11		Oak (spp.)	Low	5 - 10 feet	Sapling
White Oak	30	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Northern Pin Oak	45	Pole/Sap/Log	9	75	Red Maple	Medium	10 - 20 feet	Sapling
White Pine	20	Pole/Log	9					
Jack Pine	1	Pole	8					

**137** 42110 - Planted Red Pine Sawtimber Well 19.1 107 81-110 N/A

Stand was planted to red pine/white pine in 1916.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	XLog/Log	18	107	Jack Pine	Medium	10 - 20 feet	Sapling
					White Oak	Medium	Variable	Sapling
					Red Pine	Low	10 - 20 feet	Sapling

Stand was last cut in 2008 with all red pine and oak left. Oak and jack pine filling in understory.