



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61127

Entry Year 2026

Acreage: 3,107

County Kalkaska

Management Area: Kalkaska Sandy Moraines

**Stand Examiner:** Paul Roell

### Legal Description:

T25N R6W Sections 3, 4, and 5; T26N R6W Sections 27, 28, 29, 32, 33, and 34

### Identified Planning Goals:

Management in the Kalkaska Sandy Moraines area will emphasize continuing to balance the age class of aspen on suitable sites, the thinning the northern hardwoods, balancing age classes of red pine and jack pine and regenerating the aging oak resource. Management will strive to sustainably produce various forest products; enhance game and non-game wildlife habitat; protect areas of unique character and provide for forest-based recreational uses. Expected trends within this 10-year planning period are increased recreational pressure, managing oil and gas development, introduced pests and diseases and the difficulty in regenerating oak.

### Soil and topography:

Most of the upland is Rubicon sand or Crosswell sand. The lowland is mostly Tawas-Lupton mucks or other associations. The compartment is relatively flat with some slopes near the Manistee River and the lower end of the North Branch of the Manistee River.

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

There are small scattered private parcels along the Manistee River in the south end of this compartment. Some private holdings are within the compartment. The surrounding area is fairly remote with a majority of State Ownership to the east and north.

### Unique Natural Features:

None known at this time.

### Archeological, Historical, and Cultural Features:

There are no official records at this time but there are areas of concern within Section 29.

### Special Management Designations or Considerations:

The Manistee River and its tributaries are protected by Natural Rivers designation.

### Watershed and Fisheries Considerations:

The Manistee River and the North Branch of the Manistee River are both Designated Trout Streams and Natural Rivers. The Manistee River is one of the most popular trout streams in Michigan and has excellent populations of wild brook and brown trout. The North Branch of the Manistee has an excellent population of wild brook trout.

### Wildlife Habitat Considerations:

Compartment 127 is in south central Kalkaska County and is bordered on the south by the Manistee River. Three types of glacial outwash plains comprise the geology of this compartment. Most of the compartment is state owned with scattered in-holdings of private, mainly along the North and main branches of the Manistee River. There is little state owned river frontage in this compartment.

The most prevalent type of outwash plain consists of a mosaic of poorly drained and excessively drained sands, with some poorly drained organic soils. This variety of moisture content supports many habitat types including grassy openings, mixed upland and lowland aspen communities, bogs, and lowland brush. Two communities that appear to be underrepresented presently are northern hardwoods and conifer swamps. Aspen cuts should include the creation of coarse woody debris, retention of snags if not a safety hazard, and protection of nest trees. Openings a component of native warm season grasses ideally should be prescribed to burn and have additional native grasses and forbs seeded.

The second most prevalent outwash plain consists of poorly drained organic soils. This area supports large acreages of lowland conifers and lowland brush. Currently there are no scheduled habitat projects within these communities. However, several annual herbaceous plantings adjacent to this lowland complex should be continued and/or converted to perennial species. These plantings provide fall and early spring forage for yarding deer. Many other wildlife species make use of these lowland communities, including: blackburnian warbler, northern saw-whet owl, red squirrel, and wood frog.

The remaining outwash plain consists of excessively drained sands which supports several pine plantations, aspen, and upland brush communities. Originally, this land type was dominated by fire dependant conifer communities and localized northern hardwood forests, both of which are now greatly reduced in extent. Opportunities to manage for fire dependent communities on this land type should be pursued. As existing pine plantations mature and are harvested, they could be replaced with fire dependant communities, or more "natural" plantations that mimic fire dependant communities. A variety of species make use of habitats found on these dry sandy soils, including Kirtland's warbler, ruffed grouse, Eastern box turtle, and badger.

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

There is no known metallic mineral potential in this part of the state. No active sand/gravel pits are known to exist in the area, and potential for sand & gravel development within the compartment appears to be limited due to the predominance of wetlands across the area. The compartment is south of the northern Silurian reef and Antrim Shale hydrocarbon plays. The nearest past production is from Devonian carbonates and the St. Peter Sandstone more than two miles southeast. In 2023, Lambda Energy leased significant acreage in the area including most State-owned mineral rights in the compartment. However, no well permit applications have been submitted for the area to date, and it is unclear what Lambda's plans in the area may be. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

### **Vehicle Access:**

There is sufficient vehicle access within the compartment.

### **Survey Needs:**

None known at this time.

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

A short stretch of the Cranberry Snowmobile/Kalkaska Route ORV trail runs through the northeast part of the compartment. Appropriate trail protection specifications should be added to the timber sale contracts to reduce potential impacts to trails where treatments are prescribed.

### **Fire Protection:**

There is limited wildfire potential in much of this compartment due to wet ground. Fire protection would be provided by the Kalkaska FRD office and Garfield Fire Department. Sections 4, 5, 27, 32, 33, and 34 are within Zone 5 zone dispatch area, meaning additional units would be dispatched from the Grayling and Houghton Lake DNR offices depending on fire danger rating.

### **Additional Compartment Information:**

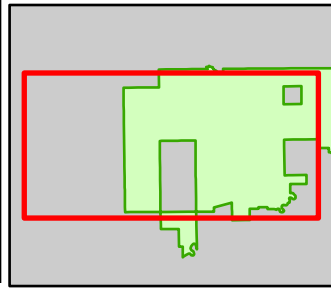
The following reports from the Inventory are attached:

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

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

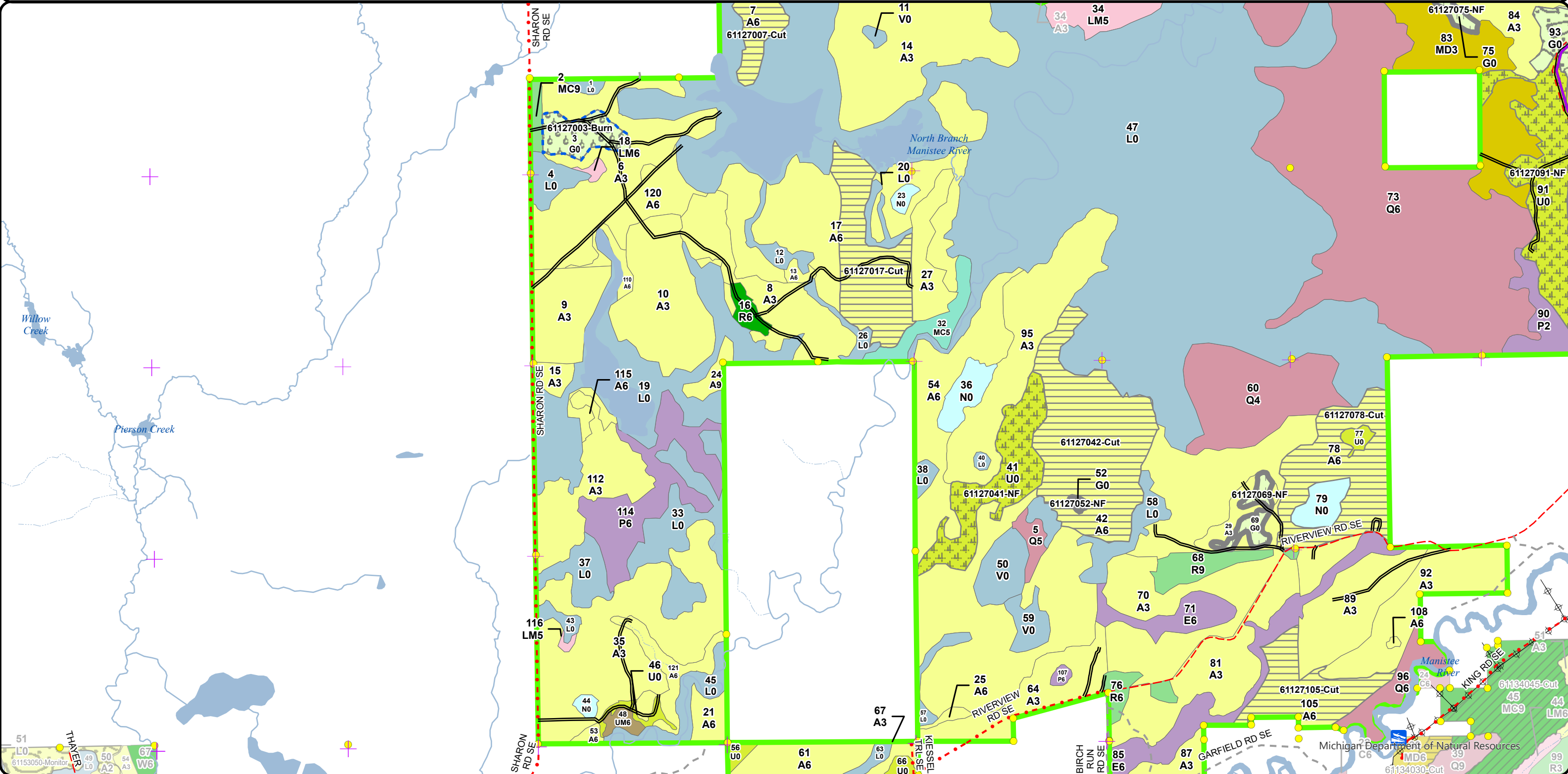
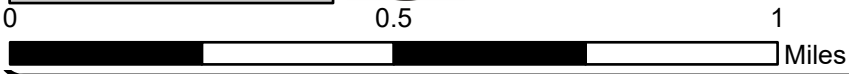
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



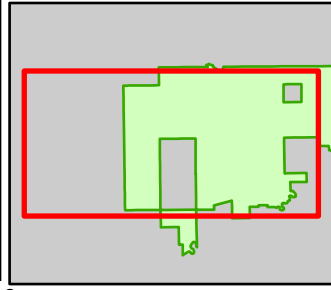
Compartment: 61127  
 T26N, R6W, Sec: 27-29, 32-34  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Kalkaska Sandy Moraines  
 YOE: 2026  
 Acres: 3107.5 GIS Calculated  
 Examiner: Paul Roell  
 Map Revised: 07/08/2024  
 Map Phase: Web-Post

- |                               |                              |                                 |                              |                                 |
|-------------------------------|------------------------------|---------------------------------|------------------------------|---------------------------------|
| Boating Access Site           | Private - Dirt / Gravel Road | Compartment Boundary            | Opening Maintenance          | 611 - Lowland Deciduous Forest  |
| Survey Grade Corners          | Intermittent Stream          | Counties                        | 413 - Aspen Types            | 612 - Lowland Coniferous Forest |
| Remonumented Section Corners  | Island in Lake or River      | Treatments with Site Conditions | 419 - Mixed Upland Deciduous | 613 - Lowland Mixed Forest      |
| Designated ORV Routes         | Lake/Pond                    | Other Treatment - See Comments  | 421 - Planted Pines          | 310 - Herbaceous Openland       |
| DNR - Secondary Forest Road   | Perennial River              | Clearcut (w/Reserves)           | 422 - Natural Pines          | 330 - Low Density Trees         |
| County - Gravel Road          | Lakes and Rivers             | Prescribed Burn                 | 429 - Mixed Upland Conifers  | 622 - Lowland Shrub             |
| County - Dirt Road (Seasonal) | Powerline                    | Regeneration Survey             | 430 - Upland Mixed Forest    | 623 - Emergent Wetland          |





Stand Boundary Map



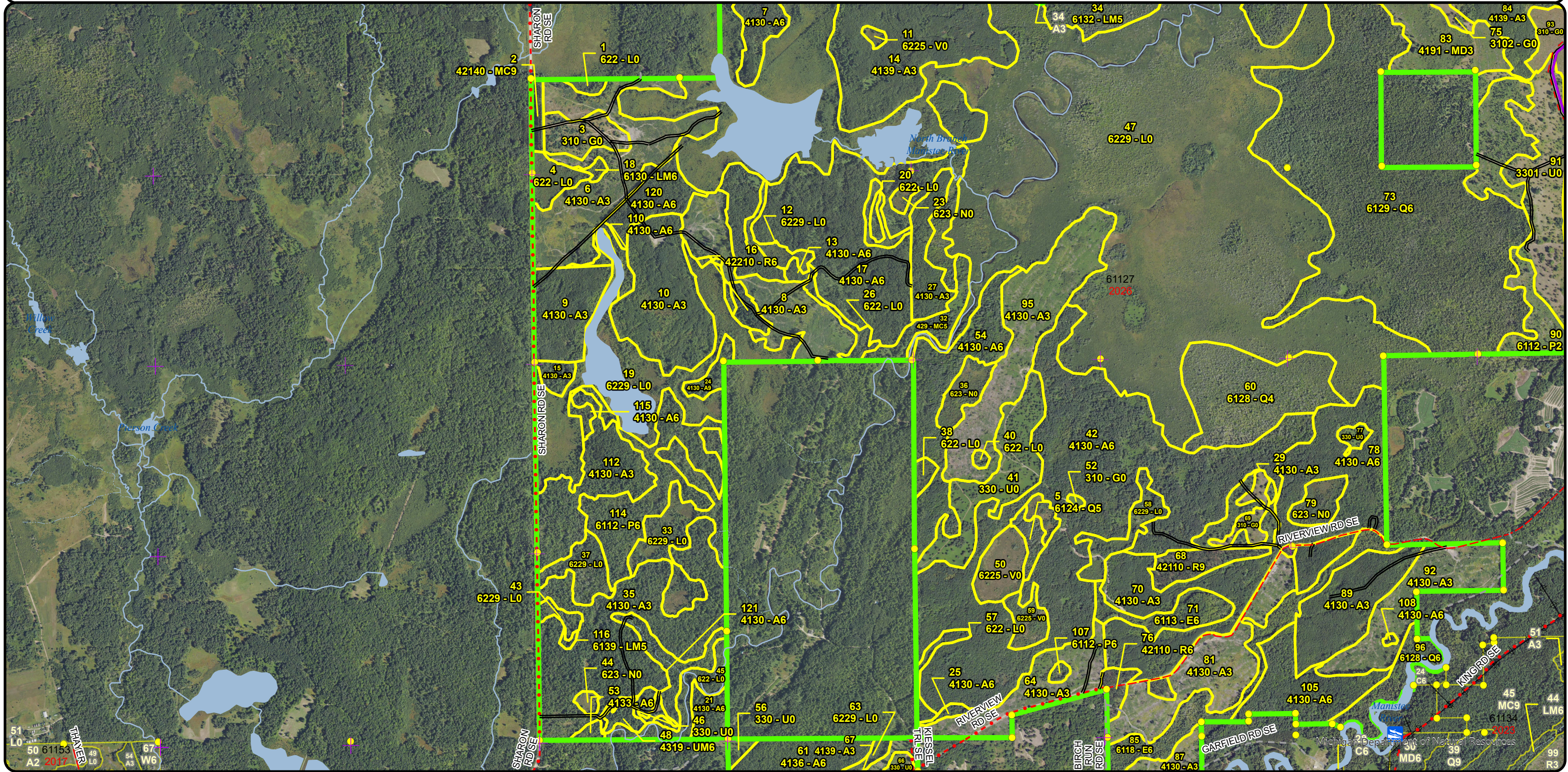
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0 0.5 1 Miles

- Boating Access Site
- Survey Grade Corners
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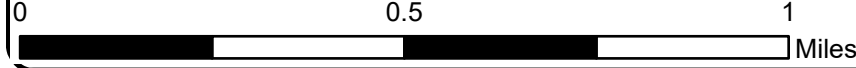
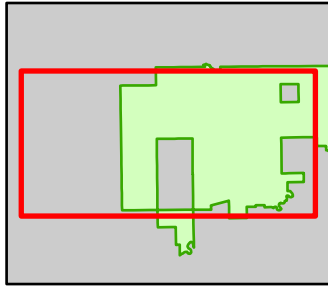
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**Special Conservation Areas  
& Site Conditions Map**

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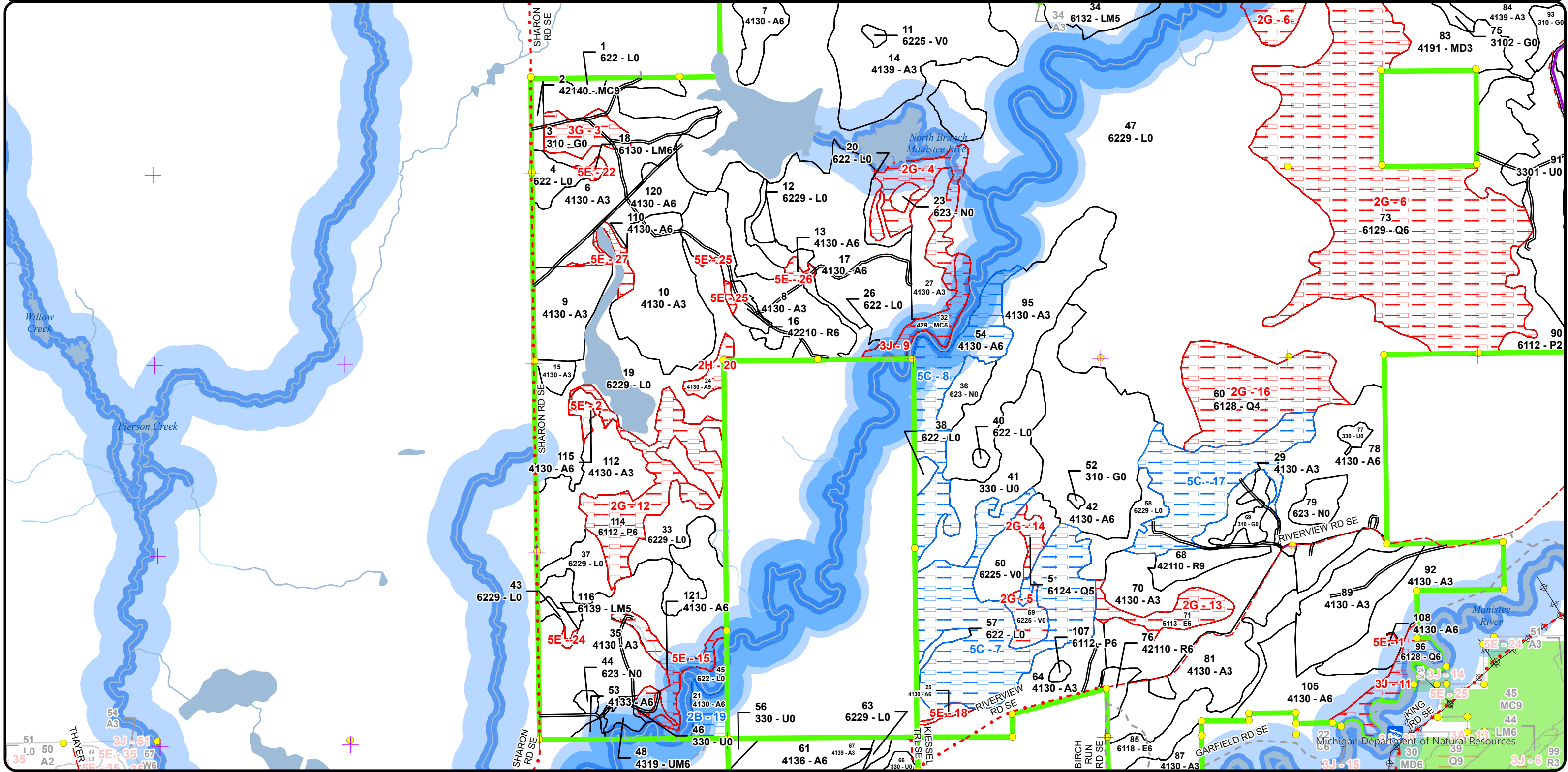


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- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable

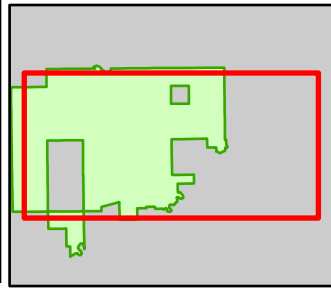
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)

- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer





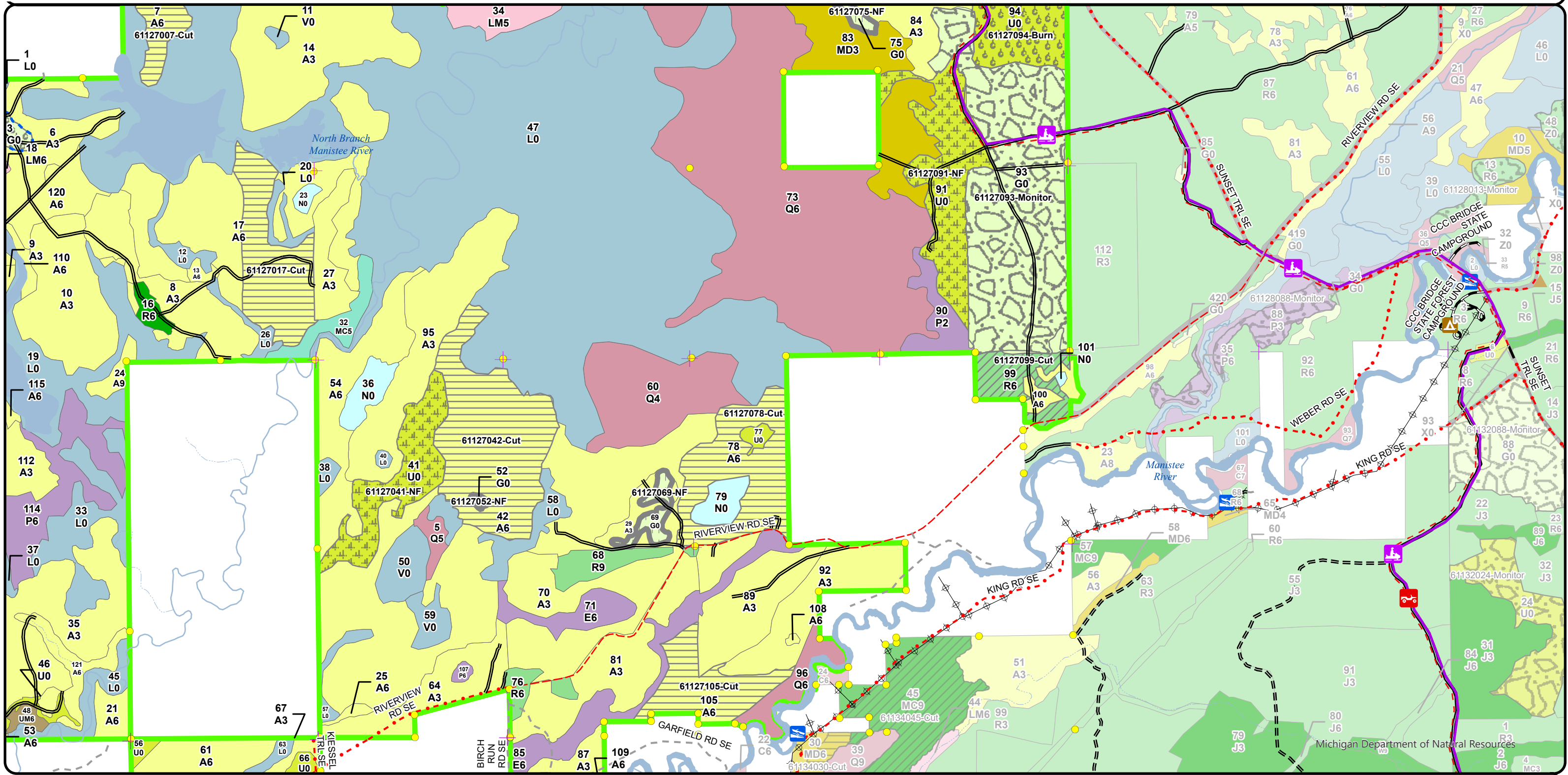
Cover Type & Treatments Map



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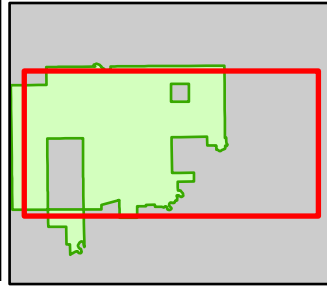


- |                              |                                       |                                 |                                   |                                 |
|------------------------------|---------------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| Berms                        | DNR - Primary Forest Road             | Lake/Pond                       | Prescribed Burn                   | 430 - Upland Mixed Forest       |
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| Campground                   | DNR - Forest Access Route             | Lakes and Rivers                | Regeneration Survey               | 612 - Lowland Coniferous Forest |
| Survey Grade Corners         | Federal / State / County - Paved Road | Powerline                       | Opening Maintenance               | 613 - Lowland Mixed Forest      |
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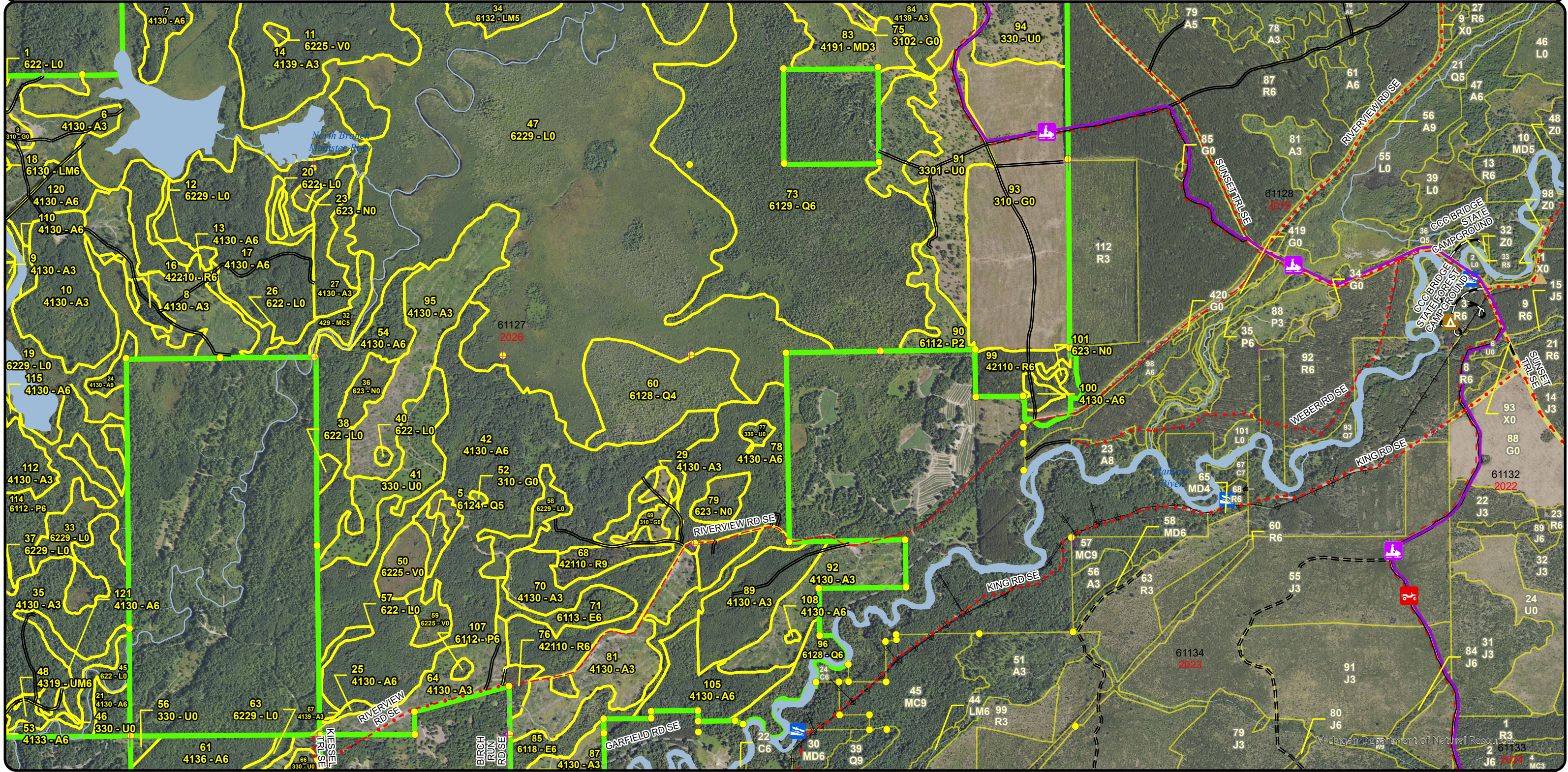


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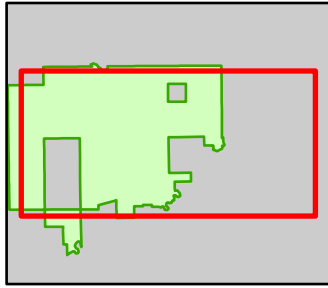
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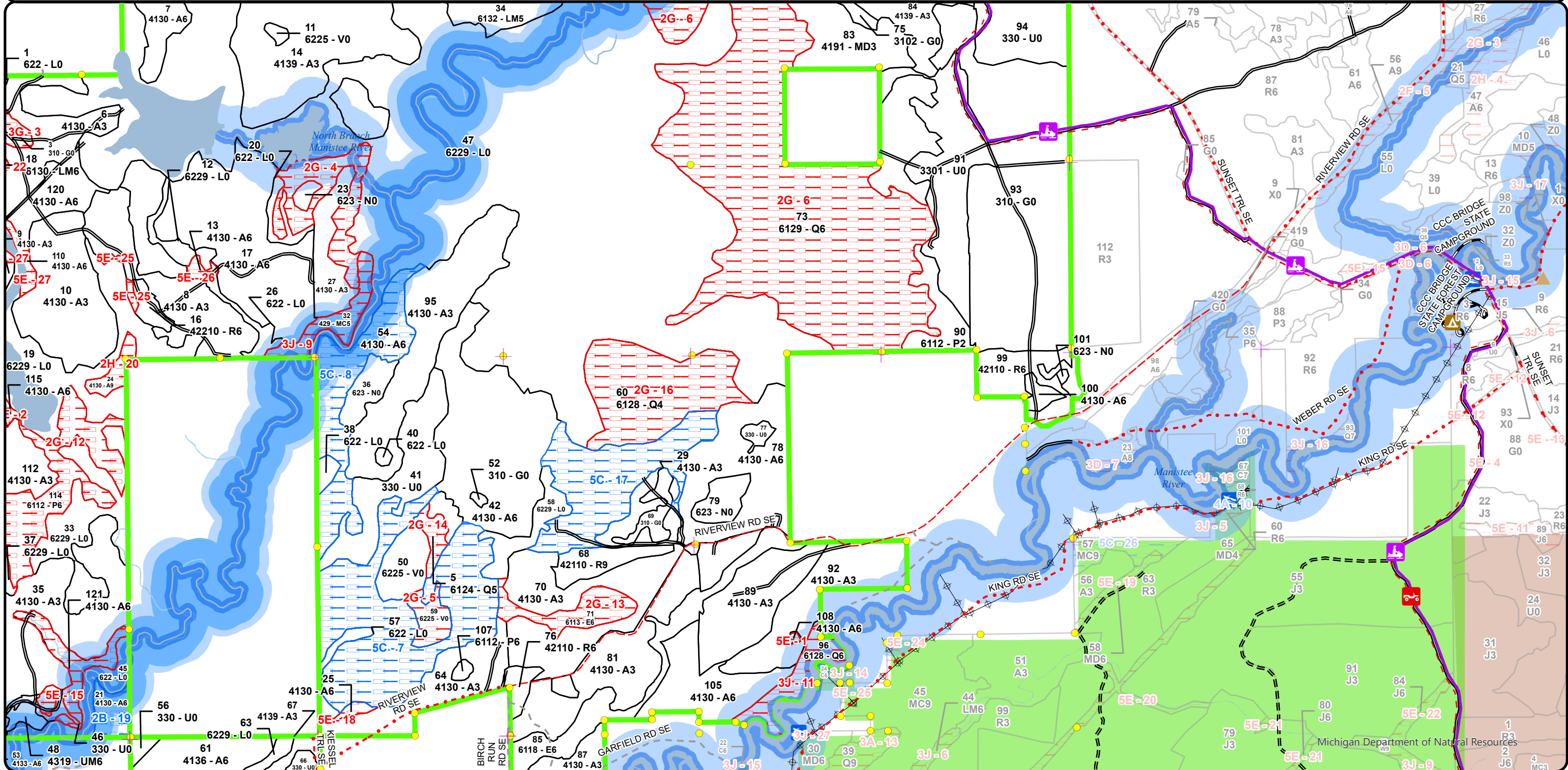


- Berms
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- Campground
- Survey Grade Corners
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- Snowmobile Trails
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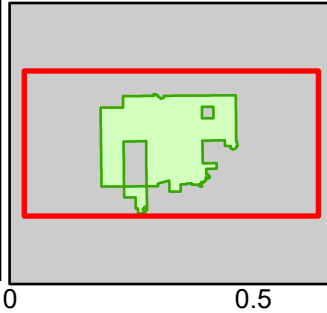
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- High Priority Trout Stream Buffer
- Research, Development, and Military Lands

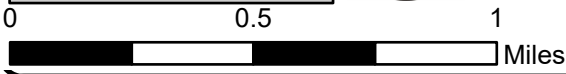




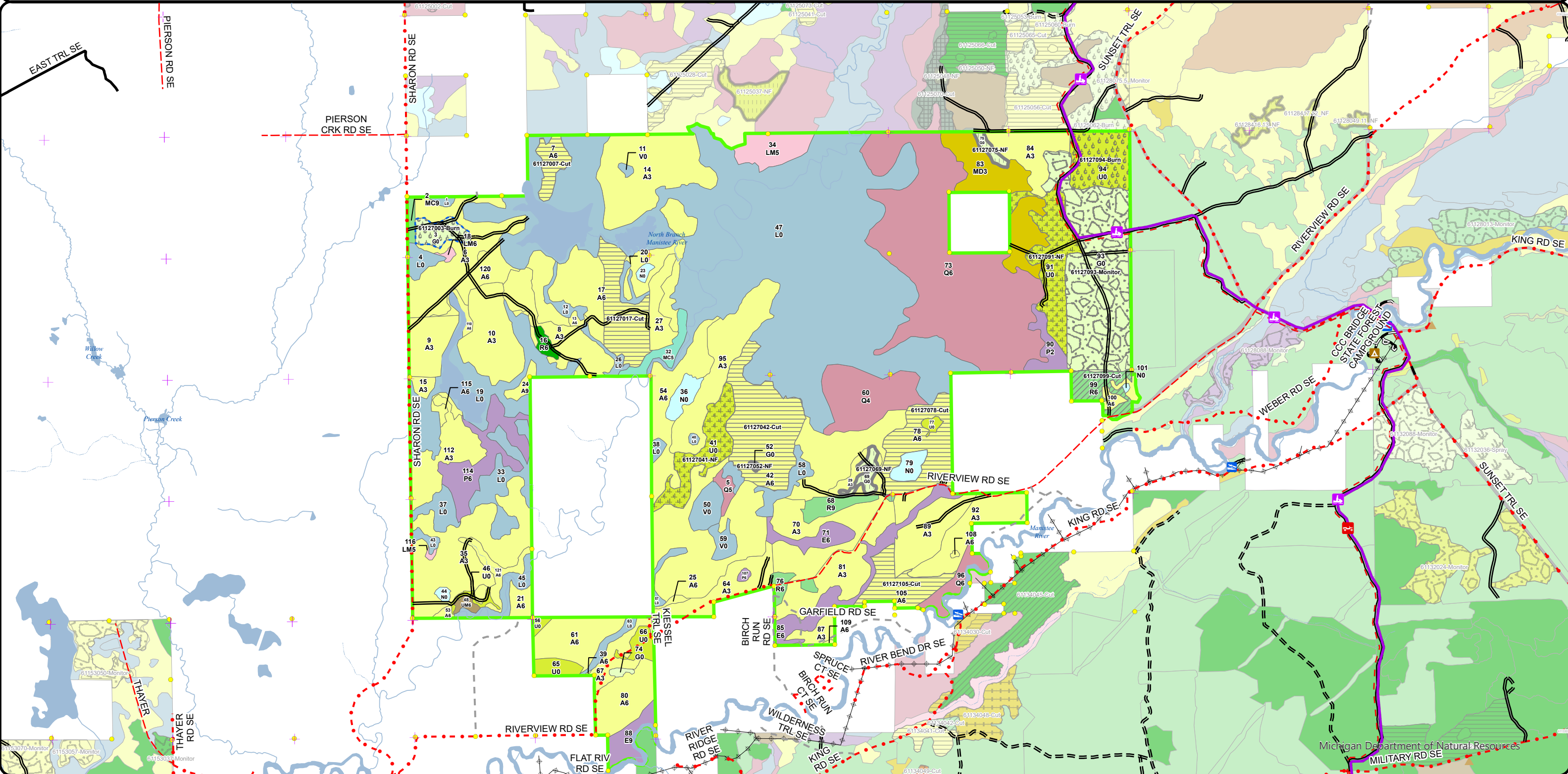
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- |                                |   |                                   |                                     |                                   |
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| □ Culvert                      | == DNR - Forest Access Route            | — Lakes and Rivers                | ▨ Regeneration Survey               | ■ 612 - Lowland Coniferous Forest |
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| == Designated ORV Routes       | — Island in Lake or River               | ▨ Clearcut (w/Reserves)           |                                     |                                   |





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	435	214	69	51	224	234	37	64	5	0	0	0	0	0	0	0	0	1331
Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Herbaceous Openland	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163
Low-Density Trees	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Lowland Aspen/Balsam Poplar	0	14	0	0	0	0	1	40	0	0	0	0	0	0	0	0	0	0	55
Lowland Conifers	0	0	0	0	0	0	0	0	5	261	52	0	0	0	0	0	0	0	318
Lowland Deciduous	0	0	0	0	0	0	31	0	14	17	0	0	0	0	0	0	0	0	62
Lowland Mixed Forest	0	0	0	0	23	0	0	1	2	0	0	0	0	0	0	0	0	0	26
Lowland Shrub	841	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	841
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	31	7	5	0	0	0	0	0	0	0	0	0	43
Upland Conifers	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>1198</b>	<b>506</b>	<b>214</b>	<b>69</b>	<b>74</b>	<b>224</b>	<b>269</b>	<b>116</b>	<b>71</b>	<b>24</b>	<b>290</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3109</b>





## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 127  
Total Compartment Acres: 3,107

Commercial Harvest - 227  
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	208	0	0	0	0	0	0	0	0	208
Red Pine	0	0	0	0	19	0	0	0	0	19
<b>Total</b>	<b>208</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>227</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	227	0	0	0	50	0	133	0	96	506
Next Step	0	0	0	0	84	133	208	0	50	475
<b>Total</b>	<b>227</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>134</b>	<b>133</b>	<b>341</b>	<b>0</b>	<b>146</b>	<b>980</b>





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

<b>3</b>	<b>61127003-Burn</b>	13.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</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> Other Influence Zones</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>7</b>	<b>61127007-Cut</b>	13.8	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Leave all red pine and oak. Use minimal area retention to protect wet areas.</p> <p><u>Specs:</u></p> <p>include drum log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, and mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>17</b>	<b>61127017-Cut</b>	41.3	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Leave all white pine and oak. Use minimal area retention to protect wet areas.</p> <p><u>Specs:</u></p> <p>Include drum log spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, and mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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41	61127041-NF	34.7	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous	No
----	-------------	------	-------------------------	------------	--	-------------	--------------	-----------------	--------------------------------	----

Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.

Next Step Burn, Opening

Treatments:

Acceptable

Regen:

Other A portion of this stand was at one time a wildlife food plot.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

42	61127042-Cut	75.7	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	------	--------------	-----------------	----	--------	---------	-------------------------	-------------	-----------	----

Prescription Final harvest stand to regenerate aspen. Leave all white pine and oak. Use minimal area retention to protect wet areas.

Specs:

Include drum log spec

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, red maple, and mixed conifer

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

52	61127052-NF	0.7	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
----	-------------	-----	---------------------------	------------	--	-------------	--------------	---------------------------------	--------------------------------	----

Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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69	61127069-NF	6.8	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
----	-------------	-----	---------------------------	------------	--	-------------	--------------	---------------------------------	--------------------------------	----

Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

75	61127075-NF	4.3	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	31021 - Cool Season Grass	No
----	-------------	-----	--------------	------------	--	-------------	--------------	---------------------------------	---------------------------	----

Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

78	61127078-Cut	47.8	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	------	--------------	-----------------	----	--------	---------	-------------------------	-------------	-----------	----

Prescription Final harvest stand to regenerate aspen. Leave all white pine and oak. Use minimal area retention to protect wet areas.

Specs: include drum log spec

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

Acceptable aspen, red maple and mixed conifer  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>91</b>	<b>61127091-NF</b>	49.0	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous	No
-----------	--------------------	------	------------------------------------	------------	--	--------------	--------------	-----------------	--------------------------------	----

Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.

Next Step Burn, Opening

Treatments:

Acceptable

Regen:

Other The south end of this stand was at one time maintained wildlife food plot.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>94</b>	<b>61127094-Burn</b>	37.4	330 - Low-Density Trees	Nonstocked		Unspec ified	Burn	Opening	31022 - Warm Season Grass	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 currents 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.

Next Step NonForestMgt, Other - Specify

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>99</b>	<b>61127099-Cut</b>	18.8	42110 - Planted Red Pine	Poletimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription thin stand to a target residual basal area of 120 square feet per acre. remove suppressed and poor formed trees

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
105 61127105-Cut	29.5	4130 - Aspen	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Access stand off of Riverview Rd through stand 81 or a skid trail that runs south from stand</p> <p><u>Specs:</u> 92Include drum log spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, red maple and mixed conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

93 61127093-Monitor	132.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Planted red pine at acceptable stocking.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Total Treatment Acreage Proposed: 505.5**

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 127

Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			2B	5C	2G	2H	3G	3J	5E	
1332	1084	<b>189</b>		59	Aspen	<b>8</b>	<b>181</b>	24	5		0	30
26	18	<b>0</b>		8	Bog			8				
163	150	<b>0</b>		13	Herbaceous Openland					13		
146	146	<b>0</b>		0	Low-Density Trees							
55	15	<b>0</b>		40	Lowland Aspen/Balsam Poplar			40				
318	0	<b>0</b>		318	Lowland Conifers			302			16	
61	31	<b>0</b>		30	Lowland Deciduous			14			16	
26	23	<b>0</b>		2	Lowland Mixed Forest							2
841	841	<b>0</b>		0	Lowland Shrub							0
22	22	<b>0</b>		0	Marsh							
57	57	<b>0</b>		0	Mixed Upland Deciduous							
4	4	<b>0</b>		0	Planted Mixed Pines							
43	43	<b>0</b>		0	Red Pine							
12	0	<b>0</b>		12	Upland Conifers						12	
3	3	<b>0</b>		0	Upland Mixed Forest							
3,108	2,438	<b>189</b>		482	Total Forested Acres	<b>8</b>	<b>181</b>	388	5	13	44	32
	78%	<b>6%</b>		15%	Relative Percent							

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 127

Year of Entry: 2026

3	Unavailable	3G: Other Influence zones - See comments	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	245	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit  
Paul Roell : Examiner

Compartment: 127  
Year of Entry: 2026

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> steep bluff down to stand that is down in natural river flood plain. Leave for natural river riparian corridor							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural river riparian buffer. Steep bluff down to stand.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 127

Year of Entry: 2026

15	Unavailable	5E: Long-Term Retention	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
See stand comments about limited access over wet area.							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit  
Paul Roell : Examiner

Compartment: 127  
Year of Entry: 2026

21	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.
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	622 - Lowland Shrub	Nonstocked	2.1		Immature	No	some scattered aspen, aspen, red maple, cedar and balsam																																															
2	42140 - Planted Mixed Pine	Sawtimber Well	3.9	103	111-140	N/A	2023 - Stand was row thinned under Contract Apple Tree 61-165-17																																															
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>50</td> <td>Log/Pole</td> <td>12</td> <td>103</td> </tr> <tr> <td>White Pine</td> <td>45</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	50	Log/Pole	12	103	White Pine	45	Log/Pole	13		Jack Pine	5	Pole	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling																					
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5	6124 - Lowland Spruce-Fir	Poletimber Medium	4.9	81	51-80	N/A																																																
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6	4130 - Aspen	Sapling Well	61.5	3	Immature	N/A	2023 - Stand has already passed its regeneration check and monitoring treatment has been rolled out. 2023- Stand was final harvested as part of Apple tree 61-165-17. Stand 120 was originally part of stand 6 before harvest.																																															
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7	4130 - Aspen	Poletimber Well	13.8	58	81-110	N/A	small pocket of natural red pine																																															
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Balsam Fir	5	Sapling/Pole	4																																																																			
<b>11</b>	6225 - Bog	Nonstocked	1.5		Unspecified	No	surrounded by spruce, balsam, and pine																																																															
<b>12</b>	6229 - Mixed lowland shrub	Nonstocked	5.7		Immature	No																																																																





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**13**      4130 - Aspen      Poletimber Well      3.6      46      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	43	Pole	8	46	Red Maple	Low	Variable	Sapling
Red Oak	5	Pole	8					
White Pine	10	Pole/Log	8					
Red Maple	5	Pole/Sapling	5					
Paper Birch	5	Pole/Sapling	5					
Quaking Aspen	30	Pole	6	48				
Balsam Fir	2	Sapling/Pole	4					

**14**      4139 - Aspen, Mixed Deciduous      Sapling Well      88.2      18      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	30	Sapling	3	18
Red Oak	5	Sapling	4	
Black Cherry	5	Sapling	4	
Paper Birch	5	Sapling	2	
Quaking Aspen	20	Sapling	3	18
Red Maple	25	Sapling	3	
Balsam Fir	10	Sapling	3	

**15**      4130 - Aspen      Sapling Well      4.4      2      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Sapling	1	
Red Maple	25	Sapling	1	
Bigtooth Aspen	60	Sapling	1	2
Black Cherry	10	Sapling	1	

2023 - Stands monitoring Treatment has been closed. Stand has regenerated to fully stocked.  
2023 - Stand was final harvested under contract Apple Tree (61-165-17)

**16**      42210 - Natural Red Pine      Poletimber Well      4.6      70      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	6		White Pine	Low	< 5 feet	Sapling
Red Pine	80	Pole/Log	9	70	Red Maple	Low	Variable	Sapling
Black Cherry	5	Pole/Sapling	6					
White Pine	10	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
17	4130 - Aspen	Poletimber Well	113.8	46	81-110	N/A																																																								
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18	6130 - Fir, Aspen, Maple	Poletimber Well	1.5	75	81-110	N/A	2023 Stand was left as retention for stand 5 under contract Apple Tree 61-165-17																																																							
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20	622 - Lowland Shrub	Nonstocked	4.2		Unspecified	No																																																								
21	4130 - Aspen	Poletimber Well	7.7	74	81-110	N/A																																																								
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23	623 - Emergent Wetland	Nonstocked	2.2		Unspecified	No																																																								





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	4130 - Aspen	Sawtimber Well	5.2	82	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		75	Log/Pole	12	82	Red Maple	Medium	Variable	Sapling
Red Maple		5	Pole	9		White Pine	Low	5 - 10 feet	Sapling
White Pine		10	Pole/Log	8					
Quaking Aspen		10	Pole	8	80				
25	4130 - Aspen	Poletimber Well	1.9	43	81-110	N/A	retention for stand 64		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Pole	6		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		70	Pole	7	43	Red Maple	Medium	Variable	Sapling
Black Cherry		10	Pole	6					
Balsam Fir		5	Pole/Sapling	5					
26	622 - Lowland Shrub	Nonstocked	4.7		Unspecified	No			
27	4130 - Aspen	Sapling Well	16.3	33	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Sapling/Pole	3		Red Maple	Low	Variable	Sapling
Quaking Aspen		45	Sapling/Pole	4	33	Tag Alder	Low	Variable	Tall Shrub
Black Cherry		10	Sapling/Pole	3		Balsam Fir	Low	Variable	Sapling
White Pine		5	Log/XLog/Pole	14					
Bigtooth Aspen		25	Sapling/Pole	4	33				
29	4130 - Aspen	Sapling Well	11.1	5	Immature	N/A	Wildlife cut all the aspen around their managed opening		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Paper Birch		5	Pole/Sapling	6		Tag Alder	Medium	Variable	Tall Shrub
Black Cherry		10	Pole/Sapling	6					
Quaking Aspen		30	Sapling	1	5				
Bigtooth Aspen		45	Sapling	1	5				
32	429 - Mixed Upland Conifers	Poletimber Medium	11.7	90	111-140	N/A	Mixed stand some open areas with oak and apple trees		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		20	Pole/Log	8		White Pine	Low	Variable	Sapling
Paper Birch		10	Pole	6		Red Maple	Low	Variable	Sapling
Balsam Fir		30	Pole	6		Balsam Fir	Low	Variable	Sapling
White Pine		40	Log/Pole/XLog	14	90				
33	6229 - Mixed lowland shrub	Nonstocked	31.0		Immature	No	some areas of aspen, pine, cedar and red maple		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>34</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	23.3	36	51-80	N/A																																											
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<b>35</b>	4130 - Aspen	Sapling Well	89.4	2	Immature	N/A	2023 - Stand was final harvested as part of sale Apple Tree 61-165-17. There was a strip of aspen left in the middle back portion north of 46																																										
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<b>36</b>	623 - Emergent Wetland	Nonstocked	9.2		Unspecified	No																																											
<b>37</b>	6229 - Mixed lowland shrub	Nonstocked	11.9	0	Unspecified	No	some scattered aspen																																										
<b>38</b>	622 - Lowland Shrub	Nonstocked	2.7		Unspecified	No	mainly Lowland brush. some trees filling in																																										
<b>39</b>	4130 - Aspen	Poletimber Well	0.2	69	81-110	N/A	Retention from harvest on stand 67																																										
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<b>40</b>	622 - Lowland Shrub	Nonstocked	1.1		Unspecified	No																																											
<b>41</b>	330 - Low-Density Trees	Nonstocked	34.7		Unspecified	Managed Opening	some cherry, white pine, and aspen present																																										





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>42</b>	4130 - Aspen	Poletimber Well	214.3	50	81-110	N/A																																																					
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<b>43</b>	6229 - Mixed lowland shrub	Nonstocked	3.4	0	Unspecified	No																																																					
<b>44</b>	623 - Emergent Wetland	Nonstocked	1.9		Unspecified	No																																																					
<b>45</b>	622 - Lowland Shrub	Nonstocked	13.0		Unspecified	No	River corridor																																																				
<b>46</b>	330 - Low-Density Trees	Nonstocked	3.2	0	Unspecified	No	filling in with white pine, jack pine and cherry																																																				
<b>47</b>	6229 - Mixed lowland shrub	Nonstocked	652.2	0	Unspecified	No																																																					
<b>48</b>	4319 - Mixed Upland Forest	Poletimber Well	3.3	55	81-110	N/A																																																					
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<b>50</b>	6225 - Bog	Nonstocked	16.8		Immature	No	some jack pine around the edges																																																				
<b>52</b>	310 - Herbaceous Openland	Nonstocked	0.7		Unspecified	No	small grass opening.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**53** 4133 - Aspen, Mixed Pine Poletimber Well 1.9 61 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	45	Pole/Log	8	61				
White Pine	20	Pole	8					
Red Maple	25	Pole	7					

**54** 4130 - Aspen Poletimber Well 42.3 74 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10	Pole	6		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	70	Pole	7	74	Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5					
Red Maple	15	Pole	6					

**56** 330 - Low-Density Trees Nonstocked 2.3 Unspecified No grassy opening filling in with trees.

**57** 622 - Lowland Shrub Nonstocked 4.3 Unspecified No

**58** 6229 - Mixed lowland shrub Nonstocked 11.7 0 Unspecified No

**59** 6225 - Bog Nonstocked 7.6 Immature No scattered aspen and white pine throughout

**60** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Poor 52.0 105 81-110 N/A Much of the stand has dense pockets of blow down

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	15	Pole	6		Red Maple	Low	Variable	Sapling
Northern White Cedar	40	Pole	8	105				
Black Spruce	5	Pole	5					

**61** 4136 - Aspen, Mixed Conifer Poletimber Well 34.2 38 51-80 N/A there is an old land bridge for access

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	2	Sapling/Pole	4		Red Maple	High	Variable	Sapling
Red Maple	15	Pole/Sapling	5		Tag Alder	Medium	Variable	Tall Shrub
Bigtooth Aspen	30	Pole	7	38				
Quaking Aspen	25	Pole	6					
Balsam Fir	5	Sapling/Pole	4					
Paper Birch	5	Pole	6					
White Pine	18	Pole/Log/Sap	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**63**      6229 - Mixed lowland shrub      Nonstocked      6.1      0      Unspecified      No

**64**      4130 - Aspen      Sapling Well      30.1      2      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Sapling	1	2	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	45	Sapling	1	2	Red Maple	Medium	Variable	Sapling
Red Maple	20	Sapling	4	2				
Red Oak	5	Pole	8					
Balsam Fir	5	Pole/Sapling	5					

**65**      330 - Low-Density Trees      Nonstocked      8.3           Unspecified      No

**66**      330 - Low-Density Trees      Nonstocked      8.0           Unspecified      No

**67**      4139 - Aspen, Mixed Deciduous      Sapling Well      16.0      2      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Sapling	3	
Bigtooth Aspen	55	Sapling	1	2
White Oak	2	Sapling	4	
Red Oak	2	Pole	8	
White Pine	6	Log	10	

**68**      42110 - Planted Red Pine      Sawtimber Well      11.8      59      81-110      N/A      stand was thinned in 2020

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	10	59	Red Maple	Low	< 5 feet	Sapling

**69**      310 - Herbaceous Openland      Nonstocked      6.8           Unspecified      Managed Opening      wildlife managed and planted opening, continue to maintain.

**70**      4130 - Aspen      Sapling Well      47.7      19      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	1	
Quaking Aspen	15	Sapling	3	19
Red Oak	5	Sapling	2	
Red Maple	25	Sapling	3	
Bigtooth Aspen	45	Sapling	4	19





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>71</b>	6113 - Lowland Maple	Poletimber Well	14.0	89	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		15	Pole/Log	8		Red Maple	Low	Variable	Sapling
Paper Birch		10	Pole	9		Balsam Fir	Low	Variable	Sapling
Red Maple		75	Pole/Log	8	89				

<b>73</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	245.2	95	111-140	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		5	Pole	6		Balsam Fir	Low	Variable	Sapling
Black Spruce		20	Pole/Sapling	6	95	Black Spruce	Low	Variable	Sapling
Quaking Aspen		5	Pole	7		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar		25	Pole/Sapling	6	95				
White Pine		5	Pole/Log	8					
Balsam Fir		15	Pole	6					
Red Maple		5	Pole	6					
Hemlock		5	Pole	7					
Tamarack		15	Pole	6					

<b>74</b>	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No	
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<b>75</b>	3102 - Grass	Nonstocked	4.3		Unspecified	Managed Opening	wildlife maintained opening
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<b>76</b>	42110 - Planted Red Pine	Poletimber Well	6.9	64	81-110	N/A	thinned in 2020		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		100	Pole	9	64	Red Maple	Medium	Variable	Sapling

<b>77</b>	330 - Low-Density Trees	Nonstocked	2.6		Unspecified	No	scattered cherry
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<b>78</b>	4130 - Aspen	Poletimber Well	48.7	41	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		40	Pole	8	41	Balsam Fir	Low	Variable	Sapling
White Pine		3	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Quaking Aspen		20	Pole/Sapling	6	41				
Black Cherry		10	Pole	6					
Balsam Fir		5	Pole	6					
Red Maple		20	Pole	6					
Red Oak		2	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	623 - Emergent Wetland	Nonstocked	8.4		Unspecified	No	leather leaf bog with scattered jack pine, spruce, and white pine

80	4139 - Aspen, Mixed Deciduous	Poletimber Well	33.2	44	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Pole	6	44	Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole	6					
Red Oak	5	Pole	8					
White Pine	5	Pole	8					
Black Cherry	10	Pole	6					
Red Maple	25	Pole	6					

81	4130 - Aspen	Sapling Well	43.4	2	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Sapling	1	
Black Cherry	15	Sapling	1	
Bigtooth Aspen	50	Sapling	1	2
Red Maple	25	Sapling	4	4

83	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	56.6	4	1-50	N/A	Lost Swamp, 61-144-17. Cut January 2020. Cut all trees except white pine, oak, cedar and green trees.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Pole	6	
Red Maple	20	Sapling	1	4
Paper Birch	10	Pole	6	
Quaking Aspen	35	Sapling	1	4
Northern White Cedar	5	Pole	6	
Balsam Fir	20	Pole/Sapling	6	75
Black Spruce	5	Pole	6	

84	4139 - Aspen, Mixed Deciduous	Sapling Well	29.7	18	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	30	Sapling	3	18
Jack Pine	5	Sapling	1	
Black Cherry	10	Sapling	1	
Balsam Fir	5	Sapling	1	
Quaking Aspen	25	Sapling	2	18
Red Maple	25	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**85** 6118 - Lowland Deciduous with Cedar Poletimber Well 30.7 65 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	6		Tag Alder	Medium	Variable	Tall Shrub
Black Spruce	5	Pole/Sapling	5					
Quaking Aspen	30	Pole/Log	9	65				
Red Maple	20	Pole	8	80				
Paper Birch	10	Pole	6					
Northern White Cedar	20	Pole	6					

**87** 4130 - Aspen Sapling Well 9.4 3 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Bigtooth Aspen	60	Sapling	1	3
Balsam Fir	5	Sapling	2	
Black Cherry	5	Sapling	1	
White Oak	10	Pole	6	

**88** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 16.6 90 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/Pole	12	90	Red Maple	Low	Variable	Sapling
Black Cherry	3	Pole	8		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole	9					
Balsam Poplar	3	Log/Pole	12					
Bigtooth Aspen	20	Log/Pole	12					
Balsam Fir	5	Pole	6					
White Oak	2	Pole/Log	8					
Northern White Cedar	5	Log/Pole	10					
White Pine	15	Log/Pole	12					
Red Oak	2	Log	12					

**89** 4130 - Aspen Sapling Well 42.5 26 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Oak	5	Pole	6					
Bigtooth Aspen	25	Sapling/Pole	4					
Paper Birch	5	Sapling	2					
Quaking Aspen	35	Sapling	4	26				
Red Maple	20	Sapling/Pole	4					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>90</b>	6112 - Lowland Aspen	Sapling Medium	13.8	3	Immature	N/A	Lost Swamp, 61-144-17. Cut winter 2020. Cut aspen, red maple, cherry, some paper birch. Left scattered balsam, spruce, cedar, paper birch.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	6	
Balsam Fir	5	Pole/Sapling	5	
Quaking Aspen	50	Sapling	1	3
Black Spruce	15	Pole	5	
Northern White Cedar	5	Pole	5	75
Red Maple	20	Sapling	1	3

<b>91</b>	3301 - Low Density Deciduous Trees	Nonstocked	49.5		Unspecified	Managed Opening	fairly open stand with some jack pine, cherry and oak
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<b>92</b>	4130 - Aspen	Sapling Well	37.4	3	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	3
Bigtooth Aspen	60	Sapling	1	3
White Pine	5	Pole/Log/Sap	8	
Balsam Fir	10	Sapling	2	
Black Cherry	5	Sapling	1	

<b>93</b>	310 - Herbaceous Openland	Nonstocked	136.2	0	Unspecified	4211 - Planted Red Pine	2023 -Year 1 Regeneration survey was completed 10/14/2023. There is currently 800 Trees per Acre and stand is 95% free to grow at this time. 2023 - Stand was planted to Red Pine, 881 TPA. 2022 - July 2022 Stand was Site Prep Sprayed with Contract Helicopter 2021 - Stand Was trenched 2020 - Lost Swamp, 61-144-17. Cut January 2020.
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<b>94</b>	330 - Low-Density Trees	Nonstocked	37.5		Unspecified	Managed Opening	
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<b>95</b>	4130 - Aspen	Sapling Well	57.4	3	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Sapling	1	3
Bigtooth Aspen	40	Sapling	1	3
Red Maple	10	Sapling	1	
Paper Birch	5	Sapling	1	
Black Cherry	10	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**96** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 16.0 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/Pole/XLog	13		Red Maple	Low	Variable	Sapling
Red Maple	15	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	10	Pole	9		White Pine	Low	Variable	Sapling
Balsam Fir	15	Pole	6					
Bigtooth Aspen	10	Log/Pole	12					
Northern White Cedar	35	Pole	6	95				

**99** 42110 - Planted Red Pine Poletimber Well 18.8 58 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	9		Red Maple	Low	Variable	Sapling
Red Pine	95	Pole/Log	9	58				

**100** 4130 - Aspen Poletimber Well 7.0 46 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Red Maple	Medium	Variable	Sapling
White Pine	5	Pole/Log	9					
Bigtooth Aspen	75	Pole	7	46				

**101** 623 - Emergent Wetland Nonstocked 0.5 Unspecified No

**105** 4130 - Aspen Poletimber Well 29.6 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Paper Birch	10	Pole	7		Red Maple	Low	Variable	Sapling
Red Oak	5	Pole/Log	9					
Quaking Aspen	20	Log/Pole	10					
Bigtooth Aspen	45	Log/Pole	12	65				
Balsam Fir	5	Pole/Sapling	6					
Red Maple	10	Pole/Log	8					

**107** 6112 - Lowland Aspen Poletimber Well 1.4 54 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	6		Balsam Fir	Low	Variable	Sapling
Paper Birch	5	Pole	6		Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5					
Bigtooth Aspen	40	Pole	8	54				
Quaking Aspen	35	Pole	7	54				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**108**      4130 - Aspen      Poletimber Well      0.6      54      111-140      N/A      area retention around a wet pocket from 2021 timber sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole	10		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	60	Pole	8	54	Red Maple	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6					
Paper Birch	10	Pole	7					
Red Maple	15	Pole	7					

**109**      4130 - Aspen      Poletimber Well      0.6      61      81-110      N/A      Identified as retention from a 2021 timber sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	25	Pole	7		Red Maple	Medium	Variable	Sapling
Paper Birch	2	Pole	7					
Balsam Fir	10	Pole/Sapling	6					
Bigtooth Aspen	35	Pole/Log	8	61				
Red Maple	23	Pole	7					

**110**      4130 - Aspen      Poletimber Well      4.8      55      81-110      N/A      2023 - Stand was left for retention as part of stand 6 and 120 which were same stand before harvest. Stand 6 was final harvested under contract Apple Tree 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Pole	6		Red Maple	Medium	Variable	Sapling
Red Maple	15	Pole	7		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	45	Pole	8	55				
Paper Birch	5	Pole	6					
Balsam Fir	10	Pole/Sapling	5					

**112**      4130 - Aspen      Sapling Well      35.7      2      Immature      N/A      2023 - Stand was final harvested as part of sale Apple Tree 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling	1		Tag Alder	Low	Variable	Tall Shrub
Bigtooth Aspen	60	Sapling	1	2				
White Pine	5	Log/Pole/Sap	14					
Quaking Aspen	15	Sapling	1	2				
Red Maple	15	Sapling	1					

**114**      6112 - Lowland Aspen      Poletimber Well      40.1      65      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole	12		Red Maple	High	Variable	Sapling
Bigtooth Aspen	15	Log/Pole	10	65	Tag Alder	Medium	Variable	Tall Shrub
Quaking Aspen	65	Pole/Log	8	65				
Red Maple	15	Pole	6					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**115**      4130 - Aspen      Poletimber Well      4.2      65      81-110      N/A      2023 - Stand was left for retention for stand 112. This was under contract Apple tree Sale 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Bigtooth Aspen	15	Pole	6	65	Red Maple	Medium	Variable	Sapling
Black Cherry	5	Pole	5					
Quaking Aspen	65	Pole/Sapling	6	65				

**116**      6139 - Mixed Lowland Forest      Poletimber Medium      0.8      65      51-80      N/A      2023 - Stand was left for standard area retention for stand 43. Stand 43 was cut under contract Apple Tree 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole	6		Red Maple	Medium	Variable	Sapling
White Pine	25	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	5	Pole	5					
Paper Birch	5	Pole/Sapling	5					
Quaking Aspen	30	Pole	6	65				
Red Maple	20	Pole/Sapling	7					
Balsam Fir	5	Pole/Sapling	5					

**120**      4130 - Aspen      Poletimber Well      16.1      47      81-110      N/A      Stand was originally part of stand 6. Only portion of stand 6 was cut to break up size class.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	55	Pole/Log	8	47	Red Maple	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	5	Pole	6					
Red Maple	25	Pole	8					
Paper Birch	5	Pole	6					

**121**      4130 - Aspen      Poletimber Well      14.0      74      81-110      N/A      retention from stand 35 2022 timber sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10	Pole	6		Red Maple	Medium	Variable	Sapling
White Pine	10	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	7					
Red Maple	15	Pole	6					
Bigtooth Aspen	60	Pole	8	74				