



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61141

Entry Year 2025

Acreage: 1,895

County Kalkaska

Management Area: High Sand Plains

**Stand Examiner:** Paul Roell

### Legal Description:

T25N R5W, Sections 16, 17 & 18.

### Identified Planning Goals:

Management in the Kalkaska Sandy Moraines area will emphasize continuing to balance the age class of aspen on suitable sites and 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:

The topography in this compartment ranges from slightly rolling to hilly. Soil types are generally sandy with some ridges of better loams supporting higher quality big tooth aspen, pine and red oak.

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

The compartment and the area immediately surrounding it are State owned. The closest private land is approximately 1/2 mile from the perimeter of this compartment. There is very little use outside of recreation in the form of hunting, snowmobiling and recreation vehicle traffic.

### Unique Natural Features:

There aren't any known features within the compartment at this time.

### Archeological, Historical, and Cultural Features:

There aren't any known features within the compartment at this time.

### Special Management Designations or Considerations:

This compartment is part of a lease that has been negotiated with the Michigan National Guard.

### Watershed and Fisheries Considerations:

none

### Wildlife Habitat Considerations:

The landscape within compartment 141 undulates across low, sandy ice-contact ridges, and falls in the High Sand Plains Management Area of the Regional State Forest Management Plan. Featured wildlife species and their associated habitat niches for the MA include, American woodcock, golden-winged warbler, ruffed grouse, snowshoe hare, Kirtland's warbler, blackburnian warbler, wood thrush, wild turkey, black-backed woodpecker, and black bear. The well drained soils of this compartment support communities of aspen, hardwoods, oak, areas of low-density trees and herbaceous ground cover, with several natural conifer stands, as well as minor occurrences of several other cover types. Forest treatments should maintain a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid to late successional forest in places, which is typical of a fire driven landscape.

Non-forested communities in this landscape should ideally be treated with prescribed fire. However, in this compartment the non-forested areas are very small in size. Burning would benefit these communities by setting back woody encroachment, stimulating native herbaceous vegetation and berry production, and recycling nutrients. In lieu of fire mechanical management techniques should be employed. Many rare species of plants and animals depend on these fire-prone grasslands, such as Hill's thistle, dusted skipper, and Kirtland's warbler.

Aspen harvests should be designed to mimic wildfires of various intensities. This creates a mosaic of age classes and increases structural diversity within the area. Timber operations should be utilized to create some (approximately 1-2 trees per acre) coarse woody debris (CWD), preferably via sale specs. CWD trees should be log sized or bigger, the more decay resistant the tree species is the better and cut approximately at breast height (4.5 feet). The log should be left within 3 feet its stump. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Wildlife

considerations regarding oak types include leaving mature mast-producing trees, protection of den/nest trees, maintaining oak as a component of the future stand, and maintaining the diversity of tree species within the stand. Hardwood treatments should retain a component of mature mast producing trees and protect/create snags, den, cavity, and downed trees.

Species associated with pine, oak and aspen mixed upland forests and openland habitats, such as deer, badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, and gray squirrel will benefit from management here.

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

Sections 16-18, T25N–R5W, Kalkaska County

There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is a State-owned pit three miles southwest. Good potential exists for sand & gravel within the compartment, but the compartment might be too far from populated areas (markets) to have much economic potential beyond use by the county road commission, DNR, or military for local road maintenance. Active oil & gas production is occurring immediately north of the compartment. Oil & gas production in the area primarily occurs from structural highs in the basin. Most fields are quite mature and are unlikely to see future expansion, and there is low probability for discovery of new, similar fields targeting the same formations. Some testing and minor production from the Collingwood Formation occurred a couple miles to the southwest, but the Collingwood has not been proven to be economical to produce commercially. Potential for additional oil & gas development within the compartment is considered low at this time. 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:**

Adequate vehicular access appears to be available with the road system that is already in place. Some areas on the snowmobile trail are very sandy and difficult to navigate with two wheel drive vehicles.

### **Survey Needs:**

No survey needs at this time.

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

The Cranberry Snowmobile Trail is located along the south and southwest edge of this compartment. Hunting is the main recreational use of the land in this compartment. Some camping activity occurs but it is usually associated with hunting.

### **Fire Protection:**

The greatest difficulty with fire control in this compartment is with the response time. Heavy equipment is about 45 minutes away. Fortunately, there is a lack of volatile pine fuels in the area of this compartment so a catastrophic fire is unlikely. The terrain may cause the suppression crews some difficulty.

### **Additional Compartment Information:**

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

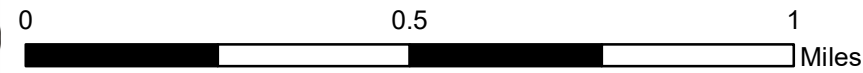
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

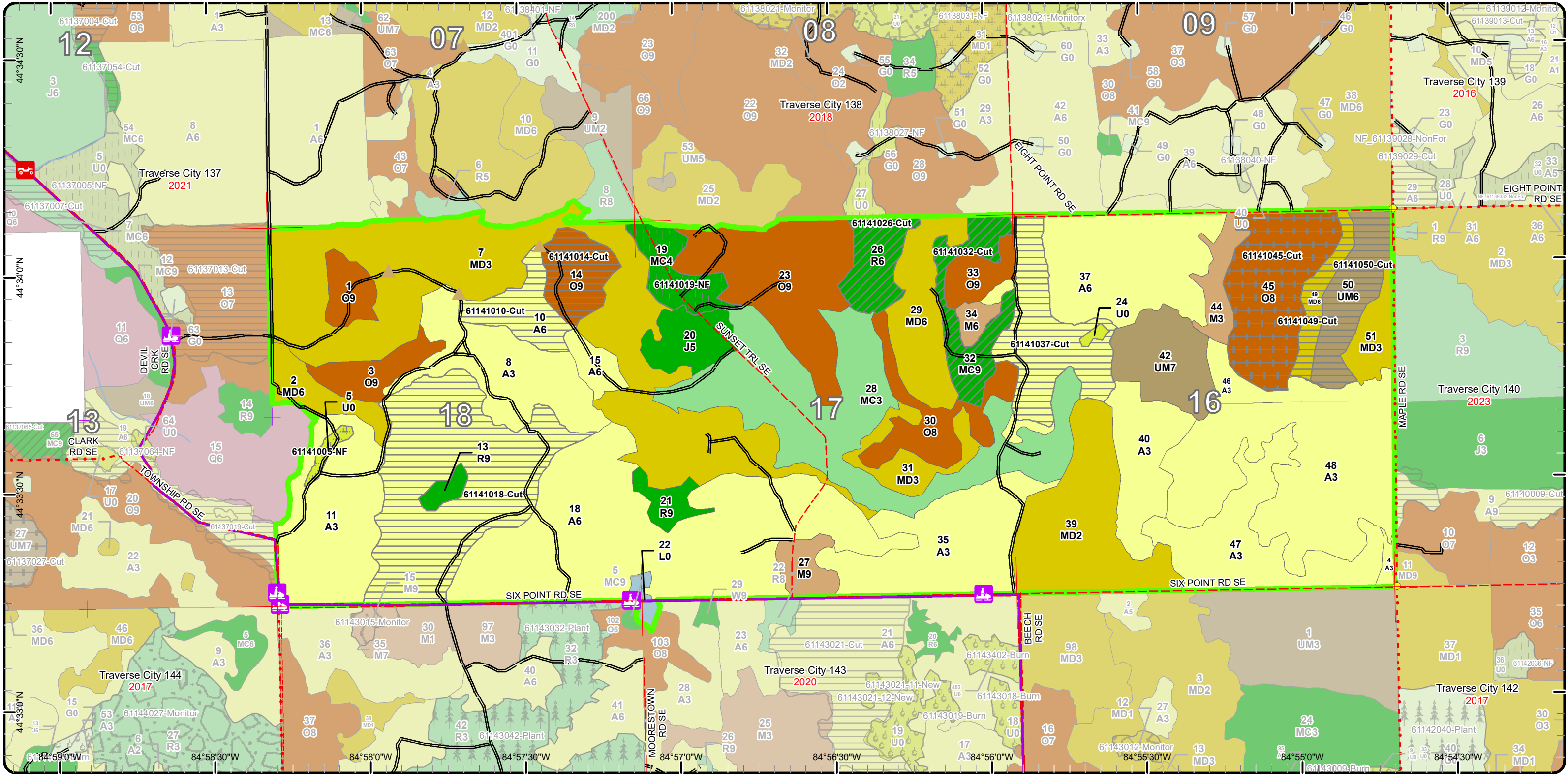
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 141  
 T25N R5W Sec.16,17&18  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: High Sand Plains  
 YOE: 2025  
 Acres: 1895.3 GIS Calculated  
 Examiner: Paul Roell  
 Map Revised: 5/12/2023  
 Map Phase: Web-Post



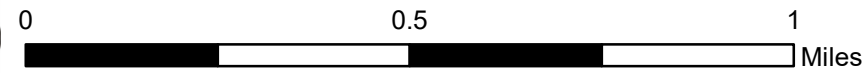
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚗 ORV Routes
- 🚙 Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Perennial River
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub



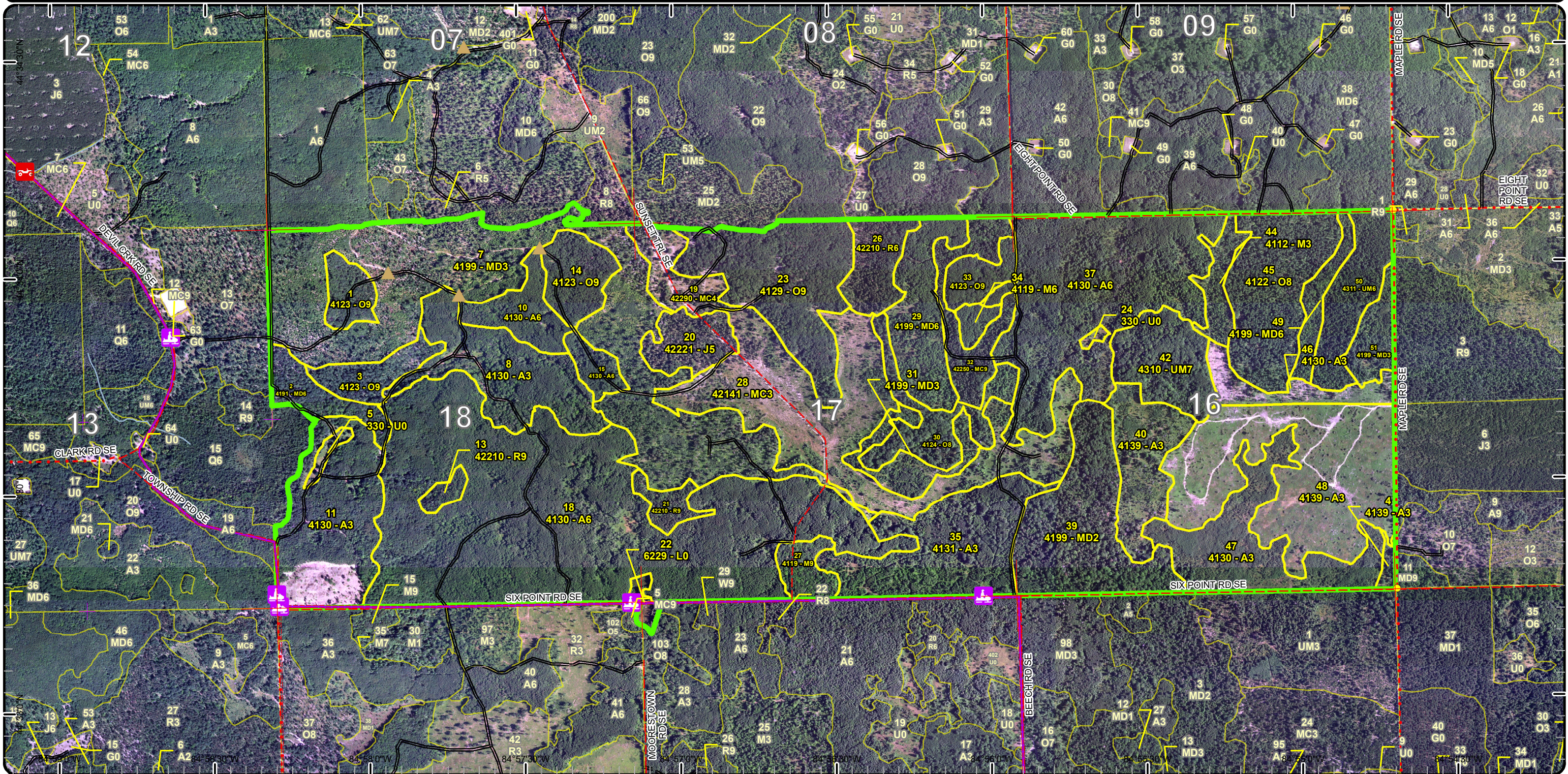


# Stand Boundary Map

Compartment: 141  
 T25N R5W Sec.16,17&18  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: High Sand Plains  
 YOE: 2025  
 Acres: 1895.3 GIS Calculated  
 Examiner: Paul Roell  
 Map Revised: 5/12/2023  
 Map Phase: Web-Post



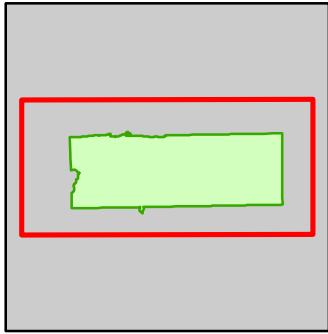
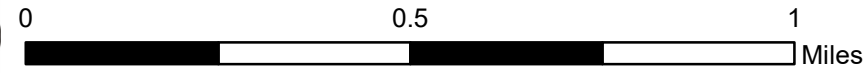
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚗 ORV Routes
- 🚙 Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Perennial River
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub



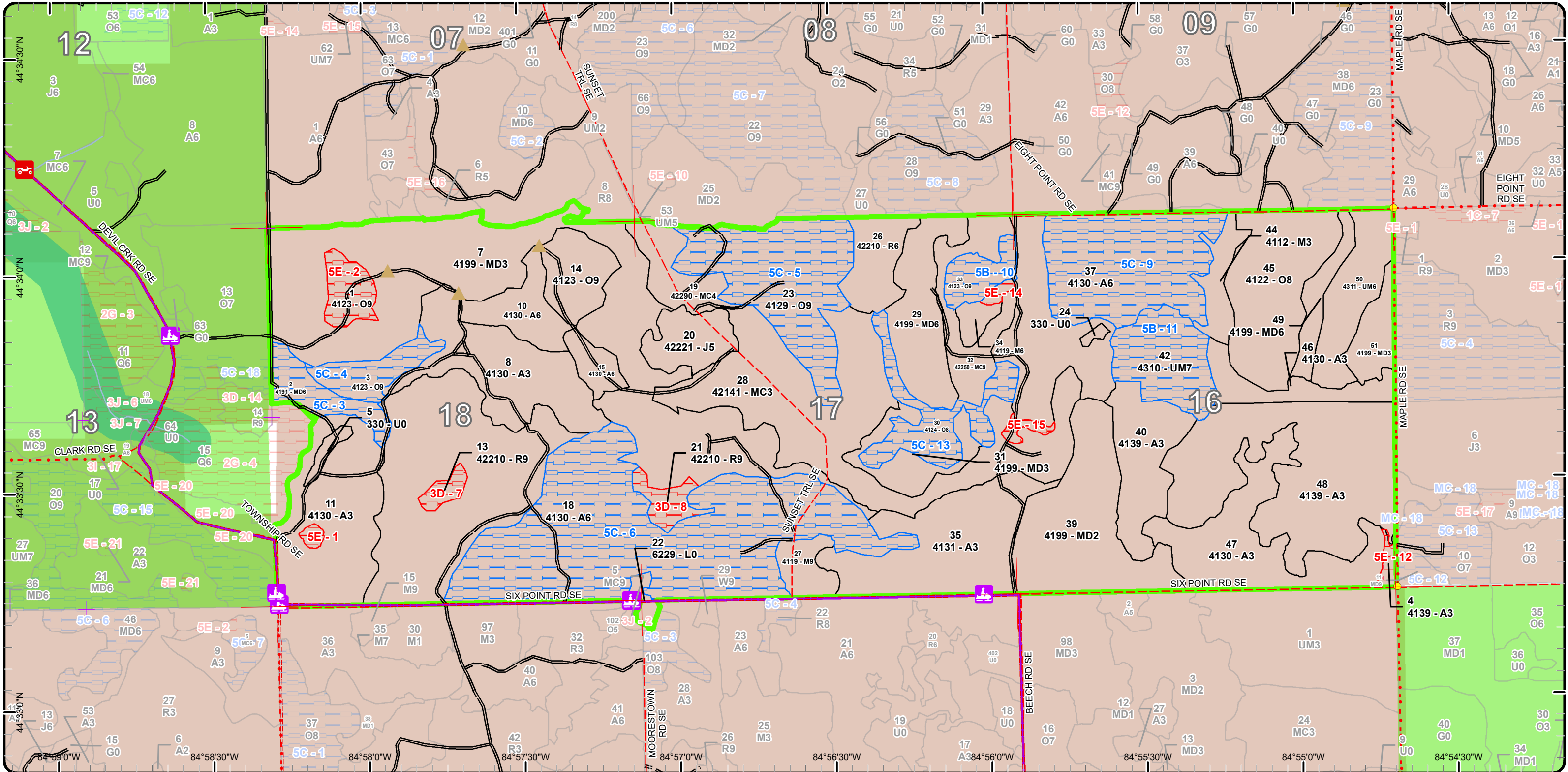


# Special Conservation Areas

Compartment: 141  
 T25N R5W Sec.16,17&18  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: High Sand Plains  
 YOE: 2025  
 Acres: 1895.3 GIS Calculated  
 Examiner: Paul Roell  
 Map Revised: 5/12/2023  
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Perennial River
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



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+	Unnever-Aged	Total
Aspen	0	272	174	10	0	445	22	0	0	0	0	0	0	0	0	0	0	0	923
Jack Pine	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	300	16	41	14	0	0	0	19	0	0	0	0	0	0	0	0	389
Natural Mixed Pines	0	0	0	21	0	0	0	0	0	0	28	0	0	0	0	0	0	0	49
Northern Hardwood	0	0	14	0	6	0	0	0	0	13	0	0	0	0	0	0	0	0	33
Oak	0	0	0	0	0	0	0	0	0	0	236	0	0	0	0	0	0	0	236
Planted Mixed Pines	0	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Red Pine	0	0	0	0	0	0	0	0	0	27	10	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	0	0	0	0	33	0	0	0	36	0	0	0	0	0	0	0	69
<b>Total</b>	<b>9</b>	<b>402</b>	<b>488</b>	<b>68</b>	<b>47</b>	<b>459</b>	<b>55</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>310</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1896</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 141  
Total Compartment Acres: 1,895

Commercial Harvest - 379  
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	197	0	0	0	0	0	0	0	0	197
Mixed Upland Deciduous	14	0	0	0	0	0	0	0	0	14
Natural Mixed Pines	0	0	0	0	0	28	0	0	0	28
Oak	23	0	0	0	0	0	62	0	0	85
Red Pine	0	0	0	0	0	22	0	0	0	22
Upland Mixed Forest	33	0	0	0	0	0	0	0	0	33
<b>Total</b>	<b>266</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>62</b>	<b>0</b>	<b>0</b>	<b>379</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	379	0	0	0	0	0	0	24	0	403
Next Step	0	0	0	0	0	0	266	0	0	266
<b>Total</b>	<b>379</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>266</b>	<b>0</b>	<b>24</b>	<b>670</b>



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

**Proposed Treatments:**

5	61141005-NF	3.5	330 - Low-Density Trees	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u> This is an old WLD DRIP opening.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
10	61141010-Cut	22.2	4130 - Aspen	Poletimber Well	56	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand.</p> <p><u>Specs:</u> Minimal area retention.</p> <p>ORV/snowmobile trail protection specs, grouse spec and oak wilt specs for the harvest</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, mixed oak, red maple and some pine which meet minimum stocking requirements</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>											
14	61141014-Cut	22.9	4123 - Red Oak	Sawtimber Well	93	111- 140	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand.</p> <p><u>Specs:</u> Minimal area retention.</p> <p>ORV/snowmobile trail protection specs, grouse spec and oak wilt specs for the harvest</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, aspen and red maple which meet minimal stocking requirements</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>											





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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

<b>18</b>	<b>61141018-Cut</b>	122.8	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	-------	--------------	-----------------	----	--------	---------	-------------------------	-------------	-----------	----

Prescription Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand.  
Specs: Minimal area retention.

ORV/snowmobile trail protection specs, grouse spec and oak wilt specs for the harvest

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable a fully stocked stand of aspen, red maple, mixed oak and some mixed pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>19</b>	<b>61141019-NF</b>	20.9	42290 - Natural Mixed Pine	Poletimber Poor	25	1-50	NonForestMgt	Herbaceous/Crop /Grass Planting	3205 - Mixed Upland Shrub		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. Remove invasive species mechanically or with herbicide treatment.

Next Step

Treatments:

Acceptable

Regen:

Other If any merchantable timber needs to be removed to facilitate a barrens type community work with FRD to have it removed commercially.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>26</b>	<b>61141026-Cut</b>	22.0	42210 - Natural Red Pine	Poletimber Well	83	141-170	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin stand down to a residual basal area of 100-120 square feet per acre. Focus on removing poor quality trees and releasing regeneration where possible.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024





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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

<b>32</b>	<b>61141032-Cut</b>	28.4	42250 - Pine, Oak	Sawtimber Well	90	81-110	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
-----------	---------------------	------	-------------------	----------------	----	--------	---------	----------------	---------------------------------------	-----------	----

Prescription Thin stand down to a residual basal area of 80 -100 square feet per acre. Focus on removing poor quality trees and releasing regeneration where possible. Over time this stand will convert to a oak type. Start to release established oak during this harvest.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>37</b>	<b>61141037-Cut</b>	51.9	4130 - Aspen	Poetimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	----------------	----	--------	---------	-------------------------	-------------	-----------	----

Prescription Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand. Specs: Retention has been added to the site condition layer for this treatment

include grouse spec and oak wilt specs for the harvest

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

Acceptable aspen, mixed oak, red maple and some pines Minimal stocking requirements  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>45</b>	<b>61141045-Cut</b>	62.3	4122 - Oak, Pine	Sawtimber Medium	93	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
-----------	---------------------	------	------------------	------------------	----	-------	---------	-------------------	-------------------------------------	-----------	----

Prescription Harvest all trees four inches and larger in diameter. Four inch diameter will provide protection for smaller pines and scattered oaks present. Specs: Look at leave tree marking some scattered white oaks and pine while cruising the stand. Minimal area retention. PROTECT ESTABLISHED REGENERATION

Include Oak wilt Spec during sale

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024





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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

<b>49</b>	<b>61141049-Cut</b>	13.7	4199 - Other Mixed Upland Deciduous	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	-------------------------------------	-----------------	----	-------	---------	-------------------------	-------------	-----------	----

Prescription Harvest all trees four inches and larger in diameter. Four inch diameter will provide protection for smaller pines and scattered oaks present.  
Specs: Look at leave tree marking some scattered white oaks and pine while cruising the stand. Minimal area retention.

Oak Wilt Spec during timber sale

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed oak and red maple which meets minimal stocking requirements

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>50</b>	<b>61141050-Cut</b>	32.7	4311 - Pine, Aspen Mix	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
-----------	---------------------	------	------------------------	-----------------	----	--------	---------	-------------------------	--------------------------	-----------	----

Prescription Harvest all trees four inches and larger in diameter. Four inch diameter will provide protection for smaller pines and scattered oaks present.  
Specs: Look at leave tree marking some scattered white oaks and pine while cruising the stand. Minimal area retention.

Include oak wilt spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, red maple, mixed oaks and mixed pine which meets minimum stocking requirements

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

**Total Treatment** 403.3  
**Acreage Proposed:**



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Paul Roell : Examiner

Compartment: 141  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	3D	5E
		With Condition	Not Available					
922	646	<b>267</b>	10	Aspen		<b>267</b>		10
21	21	<b>0</b>	0	Jack Pine				
5	5	<b>0</b>	0	Low-Density Trees				
4	4	<b>0</b>	0	Lowland Shrub				
388	370	<b>18</b>	0	Mixed Upland Deciduous		<b>18</b>		
49	49	<b>0</b>	0	Natural Mixed Pines				
33	33	<b>0</b>	0	Northern Hardwood				
236	85	<b>138</b>	13	Oak	<b>14</b>	<b>124</b>		13
130	130	<b>0</b>	0	Planted Mixed Pines				
36	22	<b>0</b>	14	Red Pine			14	
69	33	<b>36</b>	0	Upland Mixed Forest	<b>36</b>			
1,895	1,398	<b>460</b>	38	Total Forested Acres	<b>50</b>	<b>410</b>	14	23
	74%	<b>24%</b>	2%	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	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 141

Year of Entry: 2025

4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	75	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	190	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small stand with many legacy trees							
8	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small stand with many legacy trees							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	77	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Paul Roell : Examiner

Compartment: 141  
Year of Entry: 2025

10	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> look at harvesting in ten years hold to see if regeneration establishes itself							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> look at harvesting in ten years hold to see if regeneration establishes itself							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention from adjacent Stand 48 harvest from the north							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of retention for stand number 37. This retention is going to cover multiple treatments, at least two harvests.							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention from harvest on stand 37 this retention will serve multiple harvests on this stand and least two treatments.							

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
----------	--------------	-------------	----------------	-------

Comments





**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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
1	4123 - Red Oak	Sawtimber Well	13.3	93	81-110	N/A	Small stand taken out of the large oak treatment area Sale was completed in 2012, hold this stand to function as a mature island in a heavily treated area.																																																
<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>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Oak</td> <td>10</td> <td>Pole</td> <td>8</td> <td>93</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>60</td> <td>Log/Pole</td> <td>10</td> <td>93</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	5	Pole/Log	8		White Oak	10	Pole	8	93	Red Maple	15	Pole	8		Red Oak	60	Log/Pole	10	93	White Pine	10	Pole/Log	8		<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>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	Sapling	White Pine	High	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Pine	5	Pole/Log	8																																																				
White Oak	10	Pole	8	93																																																			
Red Maple	15	Pole	8																																																				
Red Oak	60	Log/Pole	10	93																																																			
White Pine	10	Pole/Log	8																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Red Maple	Low	10 - 20 feet	Sapling																																																				
White Pine	High	Variable	Sapling																																																				
2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	18.5	88	81-110	N/A																																																	
<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 Maple</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>30</td> <td>Pole/Log</td> <td>9</td> <td>88</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	20	Pole/Log	8		Red Oak	30	Pole/Log	9	88	White Pine	15	Pole/Log	9		Bigtooth Aspen	10	Pole/Log	8		Red Pine	10	Pole/Log	8		White Oak	15	Pole/Log	9		<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> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</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	White Pine	Medium	Variable	Sapling	Red Pine	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	20	Pole/Log	8																																																				
Red Oak	30	Pole/Log	9	88																																																			
White Pine	15	Pole/Log	9																																																				
Bigtooth Aspen	10	Pole/Log	8																																																				
Red Pine	10	Pole/Log	8																																																				
White Oak	15	Pole/Log	9																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Red Maple	Low	Variable	Sapling																																																				
White Pine	Medium	Variable	Sapling																																																				
Red Pine	Low	Variable	Sapling																																																				
3	4123 - Red Oak	Sawtimber Well	17.9	93	81-110	N/A	Stand cut last YOE with Confusion oak closed in 2012. left thicker than most of the oak to the north.																																																
<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 Oak</td> <td>85</td> <td>Log/Pole</td> <td>10</td> <td>93</td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	85	Log/Pole	10	93	White Oak	15	Log/Pole	12		<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>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	5 - 10 feet	Sapling	Red Oak	Medium	5 - 10 feet	Sapling	Red Maple	High	5 - 10 feet	Sapling																				
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Oak	85	Log/Pole	10	93																																																			
White Oak	15	Log/Pole	12																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
White Pine	Low	5 - 10 feet	Sapling																																																				
Red Oak	Medium	5 - 10 feet	Sapling																																																				
Red Maple	High	5 - 10 feet	Sapling																																																				
4	4139 - Aspen, Mixed Deciduous	Sapling Well	3.3	8	Immature	N/A	141 Chipper Cherry sale completed August of 2016. All oak, red, and white pine were left along with green marked.																																																
<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 Maple</td> <td>5</td> <td>Sapling</td> <td>2</td> <td>8</td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Sapling/Pole</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>50</td> <td>Sapling</td> <td>3</td> <td>8</td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Sapling</td> <td>2</td> <td>8</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Sapling	2	8	Red Oak	5	Sapling/Pole	2		Black Cherry	50	Sapling	3	8	Quaking Aspen	35	Sapling	2	8	Bigtooth Aspen	5	Sapling	2		<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>Serviceberry (Juneberry)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Serviceberry (Juneberry)	Medium	5 - 10 feet	Sapling	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub									
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	5	Sapling	2	8																																																			
Red Oak	5	Sapling/Pole	2																																																				
Black Cherry	50	Sapling	3	8																																																			
Quaking Aspen	35	Sapling	2	8																																																			
Bigtooth Aspen	5	Sapling	2																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Serviceberry (Juneberry)	Medium	5 - 10 feet	Sapling																																																				
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub																																																				
5	330 - Low-Density Trees	Nonstocked	3.5			No																																																	
		<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>Black Cherry</td> <td>Medium</td> <td></td> <td>Pole</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td></td> <td>Log</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td></td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height		Size	Black Cherry	Medium		Pole	Red Oak	Low		Log	Red Maple	Low		Pole																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Black Cherry	Medium		Pole																																																				
Red Oak	Low		Log																																																				
Red Maple	Low		Pole																																																				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

<b>7</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	205.7	15	1-50	N/A	Confusion oak sale was completed in 2012. Highlighting the understory regenerating stand. earlier cut portions of the sale have regenerated nicely to a mixed red maple and oak. variable residual BA from 10-20 BA. Residual BA should be left for mast production and diversity of the area	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		10	Pole/Log/Sap	8				
Red Pine		5	Pole/Sap/Log	8				
Red Oak		25	Sapling	2	15			
Red Oak		10	Log	14	93			
Red Maple		35	Sapling	2	15			
Bigtooth Aspen		10	Sapling	2				
White Pine		5	Pole/Sap/Log	8				

<b>8</b>	4130 - Aspen	Sapling Well	59.0	6	Immature	N/A	141 notable aspen cut summer of 2018 some residual oak left scattered
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		5	Log	12	6		
White Oak		5	Log	10			
White Pine		5	Log/Pole	12			
Red Maple		25	Sapling	1	6		
Bigtooth Aspen		60	Sapling	1	6		

<b>10</b>	4130 - Aspen	Poletimber Well	22.2	56	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Pole	8			
Bigtooth Aspen		75	Pole/Log	9	56		
Red Oak		10	Pole	8			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	Variable	Sapling			

<b>11</b>	4130 - Aspen	Sapling Well	71.1	6	Immature	N/A	141 notable aspen cut summer of 2018 except 1/4 of south was cut summer of 2017. site already fully regenerated to aspen. scattered green oak left to increase good thick stem density.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		3	Sapling	4			
Balsam Fir		10	Sapling/Pole	4			
Red Oak		3	Log/Pole	10			
Red Maple		15	Sapling	1	6		
Bigtooth Aspen		69	Sapling	1	6		

<b>13</b>	42210 - Natural Red Pine	Sawtimber Well	4.9	89	141-170	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		75	Log/Pole/XLog	14	89		
Quaking Aspen		5	Pole	8			
Red Maple		15	Pole	8			
Red Oak		5	Log	18			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	Variable	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
14	4123 - Red Oak	Sawtimber Well	22.9	93	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>
Quaking Aspen		5	Pole/Sapling	6		White Pine	Medium	5 - 10 feet	Sapling
Red Oak		80	Log/Pole	10	93	Red Maple	Low	10 - 20 feet	Sapling
Red Maple		15	Pole	6					
15	4130 - Aspen	Poletimber Well	10.0	28	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Oak		10	Log/Pole	12	93				
Red Maple		15	Sapling	3					
Bigtooth Aspen		75	Pole/Sapling	5	28				
18	4130 - Aspen	Poletimber Well	311.3	48	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>
Red Oak		15	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Red Maple		15	Pole/Sapling	6		White Pine	Low	Variable	Sapling
Bigtooth Aspen		65	Pole	7	48				
White Pine		5	Pole	6					
19	42290 - Natural Mixed Pine	Poletimber Poor	20.9	25	1-50	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		30	Log/Pole	14		Red Oak	Low	Variable	Sapling
Jack Pine		50	Pole/Sapling	5	25	White Pine	Low	Variable	Sapling
Red Oak		20	Log/Pole	14	93				
20	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	20.8	25	Immature	N/A	The overstory red pine was removed around 2018 '141 Central Blend'. Understory jack pine and oak is now the cover type. There is some scattered log sized red pine that was left.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Jack Pine		70	Pole/Sapling	5	25				
Black Cherry		15	Sapling	2					
Red Oak		15	Sapling	2					
21	42210 - Natural Red Pine	Sawtimber Well	9.5	90	141-170	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		10	Pole	7		White Pine	Medium	Variable	Sapling
Red Oak		15	Log/XLog/Pole	16					
White Pine		5	Pole/Sapling	7					
Bigtooth Aspen		5	Log/Pole	13					
Red Pine		65	Log/Pole/XLog	14	90				
22	6229 - Mixed lowland shrub	Nonstocked	4.4		Unspecified	No	Lowland bog		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

**23** 4129 - Mixed Oak Sawtimber Well 75.4 92 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole/Log	8		Red Maple	Low	Variable	Sapling
Red Oak	35	Log/Pole	10	92	Red Oak	Low	Variable	Sapling
Red Pine	5	Log/Pole	10		White Pine	Low	Variable	Sapling
Red Maple	10	Pole	7		Red Pine	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole/Log	8					
White Oak	35	Log/Pole	10	92				

**24** 330 - Low-Density Trees Nonstocked 1.4 No

**26** 42210 - Natural Red Pine Poletimber Well 22.0 83 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Pole/Log	8		White Pine	Low	Variable	Sapling
White Oak	5	Pole/Log	8		Red Oak	Low	Variable	Sapling
Red Pine	75	Pole/Log	9	83	Red Maple	Low	Variable	Sapling
White Pine	5	Pole/Log	9					

**27** 4119 - Mixed Northern Hardwoods Sawtimber Well 12.9 88 51-80 N/A - Stand was thinned around 2018 '141 Central Blend'.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	9	88	Ironwood	Medium	Variable	Sapling
Basswood	15	Log/Pole	10		Beech	Low	Variable	Sapling
Paper Birch	5	Pole	8		Bigtooth Aspen	Low	Variable	Sapling
Red Oak	35	Log/Pole	13	88				
Sugar Maple	20	Pole/Log	9					

**28** 42141 - Planted Mixed Pine, Mixed Deciduous Sapling Well 130.2 8 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	45	Sapling	2	8
Jack Pine	20	Sapling/Pole	3	
Red Oak	5	Pole/Sapling	5	

Stand is a result of the North Branch Truck Sale which closed in 2006. All red pine was cut. This part of the sale and resulting stand has been roller chopped and trenched and planted to pine to get some red pine started back in this area. was not intended to be a fully stocked so the objective has been met. Part of stand is FTP C62-800. See reference layer near Sunset Trail. 2.5 + 8.8 + 4.8 acres planted. 3rd year regen survey done in 2016.- 2020 regen survey shows 28% mortality, 630 TPA of which 55% is free to grow.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

**29** 4199 - Other Mixed Upland Deciduous Poletimber Well 40.6 39 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	25	Pole/Sapling	5	
Red Maple	40	Pole/Sapling	5	39
Black Cherry	5	Sapling	3	
Jack Pine	2	Pole	5	
Bigtooth Aspen	5	Pole/Sapling	5	
White Oak	10	Sapling/Pole	3	
Red Pine	3	Sapling/Pole	4	
White Pine	10	Sapling	4	

**30** 4124 - Red with White Oak Sawtimber Medium 31.0 93 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	45	Log/Pole/XLog	12	93	Red Oak	Medium	5 - 10 feet	Sapling
White Oak	45	Log/Pole/XLog	12	93	Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	5	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log	8		White Oak	Medium	5 - 10 feet	Sapling

**31** 4199 - Other Mixed Upland Deciduous Sapling Well 19.0 19 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling/Pole	4	19
Red Oak	25	Sapling/Pole	4	
Black Cherry	5	Sapling	3	
White Oak	15	Sapling	3	
Bigtooth Aspen	25	Sapling/Pole	4	

**32** 42250 - Pine, Oak Sawtimber Well 28.4 90 81-110 N/A

Gully RD Red Pine Closed in 2007 all orange marked red pine, aspen and jack pine were harvested.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	20	Log/Pole/XLog	14		Red Oak	Medium	Variable	Sapling
Red Pine	60	Log/Pole	13	90	Red Maple	Low	Variable	Sapling
White Oak	10	Log/Pole	14					
Red Maple	10	Pole	7					

**33** 4123 - Red Oak Sawtimber Well 13.5 90 81-110 N/A

- Very nice red oak stand. Select cut releasing the nice quality single stems trying to remove high risk trees. OK to cut some of all species, ie red pine, maple, and oak.  
- Stand was thinned around 2017 '141 Central Blend'. Residual BA is around 60-90sqft/ac

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	13		Red Maple	Low	Variable	Sapling
Red Oak	70	Log/Pole/XLog	14	90				
Red Maple	15	Pole/Log/Sap	10					
Red Pine	10	Log/Pole/XLog	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>34</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	5.7	39	1-50	N/A																																																							
<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>Black Cherry</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>50</td> <td>Pole/Sapling</td> <td>5</td> <td>39</td> </tr> <tr> <td>Red Oak</td> <td>30</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10	Pole/Sapling	5		Bigtooth Aspen	10	Pole/Sapling	5		Red Maple	50	Pole/Sapling	5	39	Red Oak	30	Pole/Sapling	6																														
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Black Cherry	10	Pole/Sapling	5																																																										
Bigtooth Aspen	10	Pole/Sapling	5																																																										
Red Maple	50	Pole/Sapling	5	39																																																									
Red Oak	30	Pole/Sapling	6																																																										
<b>35</b>	4131 - Aspen, Oak	Sapling Well	71.9	17	Immature	N/A	Stand is a result of the North Branch Truck Sale which closed in 2006. All red pine was cut. Some larger diameter oaks left scattered throughout																																																						
<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 Oak</td> <td>20</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Sapling</td> <td>3</td> <td>17</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>35</td> <td>Sapling/Pole</td> <td>3</td> <td>17</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	20	Sapling/Pole	3		Black Cherry	15	Sapling	3	17	Quaking Aspen	10	Sapling	3		Bigtooth Aspen	35	Sapling/Pole	3	17	Red Maple	20	Sapling	3																									
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Oak	20	Sapling/Pole	3																																																										
Black Cherry	15	Sapling	3	17																																																									
Quaking Aspen	10	Sapling	3																																																										
Bigtooth Aspen	35	Sapling/Pole	3	17																																																									
Red Maple	20	Sapling	3																																																										
<b>37</b>	4130 - Aspen	Poletimber Well	133.8	49	81-110	N/A																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>55</td> <td>Pole/Log</td> <td>8</td> <td>49</td> <td>Red Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	10	Pole	7		Red Maple	Low	Variable	Sapling	Bigtooth Aspen	55	Pole/Log	8	49	Red Oak	Low	Variable	Sapling	White Pine	5	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling	Red Maple	15	Pole/Log	8						Black Cherry	15	Pole	6					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
Quaking Aspen	10	Pole	7		Red Maple	Low	Variable	Sapling																																																					
Bigtooth Aspen	55	Pole/Log	8	49	Red Oak	Low	Variable	Sapling																																																					
White Pine	5	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling																																																					
Red Maple	15	Pole/Log	8																																																										
Black Cherry	15	Pole	6																																																										
<b>39</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	75.2	18	Immature	N/A	- Stand had the overstory removed in 2018 '141 Central Blend'. Some scattered pine and oak were left. Mostly red maple with some aspen and oak is what's remaining. open areas are filling in from the 2018 harvest definitely a second regeneration age class present. More trees should have been harvested in 2018																																																						
<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 Maple</td> <td>35</td> <td>Sapling</td> <td>2</td> <td>18</td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log/XLog/Pole</td> <td>14</td> <td>87</td> </tr> <tr> <td>Red Oak</td> <td>30</td> <td>Sapling/Pole/Log</td> <td>2</td> <td>18</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>28</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	35	Sapling	2	18	White Oak	5	Log	10		Red Pine	2	Log/XLog/Pole	14	87	Red Oak	30	Sapling/Pole/Log	2	18	Bigtooth Aspen	28	Sapling	2																									
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	35	Sapling	2	18																																																									
White Oak	5	Log	10																																																										
Red Pine	2	Log/XLog/Pole	14	87																																																									
Red Oak	30	Sapling/Pole/Log	2	18																																																									
Bigtooth Aspen	28	Sapling	2																																																										
<b>40</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	38.1	15	1-50	N/A	Stand was harvested in late fall of 2007 Seven Point Oak. RX was to cut all trees and only oak that are larger than 10 inches in DBH																																																						
<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 Maple</td> <td>30</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>45</td> <td>Sapling/Pole</td> <td>3</td> <td>15</td> </tr> <tr> <td>Red Oak</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Sapling	3	15	Bigtooth Aspen	45	Sapling/Pole	3	15	Red Oak	15	Sapling	1		Black Cherry	10	Sapling	1																														
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	30	Sapling	3	15																																																									
Bigtooth Aspen	45	Sapling/Pole	3	15																																																									
Red Oak	15	Sapling	1																																																										
Black Cherry	10	Sapling	1																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>42</b>	4310 - Pine, Oak Mix	Sawtimber Poor	36.3	93	1-50	N/A	Stand was cut in 2015-2016 '141 Central Blend'. Residual BA varies quiet a bit but is a mix of oak and pine.																																											
<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>White Oak</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>35</td> <td>Log/Pole</td> <td>12</td> <td>93</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>35</td> <td>Log/Pole</td> <td>12</td> <td>93</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Oak	20	Log/Pole	12		White Pine	35	Log/Pole	12	93	Red Pine	10	Log/Pole	10		Red Oak	35	Log/Pole	12	93	<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 Oak</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Medium	10 - 20 feet	Sapling	Red Maple	Medium	10 - 20 feet	Sapling	Quaking Aspen	Medium	5 - 10 feet	Sapling						
Canopy Species	% Cover	Size Class	DBH	Age																																														
White Oak	20	Log/Pole	12																																															
White Pine	35	Log/Pole	12	93																																														
Red Pine	10	Log/Pole	10																																															
Red Oak	35	Log/Pole	12	93																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Red Oak	Medium	10 - 20 feet	Sapling																																															
Red Maple	Medium	10 - 20 feet	Sapling																																															
Quaking Aspen	Medium	5 - 10 feet	Sapling																																															
<b>44</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	14.2	17	Immature	N/A	Stand cut last YOE Gardner Farm Jack pine sale closed in the spring of 2007. Overstory jack taken off the top of a nicely stocked maple oak stand, a few maple are almost pole size.																																											
<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>White Oak</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>80</td> <td>Sapling/Pole</td> <td>3</td> <td>17</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Oak	5	Sapling/Pole	4		Red Oak	10	Sapling/Pole	3		Red Maple	80	Sapling/Pole	3	17	White Pine	5	Sapling/Pole	3																									
Canopy Species	% Cover	Size Class	DBH	Age																																														
White Oak	5	Sapling/Pole	4																																															
Red Oak	10	Sapling/Pole	3																																															
Red Maple	80	Sapling/Pole	3	17																																														
White Pine	5	Sapling/Pole	3																																															
<b>45</b>	4122 - Oak, Pine	Sawtimber Medium	62.3	93	51-80	N/A	Gardener Farm Oak Sale closed January 2007. All orange marked trees, aspen, jack pine, and red maple were harvested.																																											
<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>White Oak</td> <td>25</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>35</td> <td>Log/Pole</td> <td>13</td> <td>93</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Pole/Log/Sap</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Oak	25	Log/Pole	13		Red Oak	35	Log/Pole	13	93	Red Pine	10	Log/Pole	13		White Pine	30	Pole/Log/Sap	9		<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>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	Sapling	Red Oak	Medium	5 - 10 feet	Sapling	White Oak	Low	5 - 10 feet	Sapling	White Pine	Medium	Variable	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																														
White Oak	25	Log/Pole	13																																															
Red Oak	35	Log/Pole	13	93																																														
Red Pine	10	Log/Pole	13																																															
White Pine	30	Pole/Log/Sap	9																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Red Maple	Medium	5 - 10 feet	Sapling																																															
Red Oak	Medium	5 - 10 feet	Sapling																																															
White Oak	Low	5 - 10 feet	Sapling																																															
White Pine	Medium	Variable	Sapling																																															
<b>46</b>	4130 - Aspen	Sapling Well	20.3	8	Immature	N/A	cut with adjacent stand. chipper challenge																																											
<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>White Pine</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>8</td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Sapling</td> <td>2</td> <td>8</td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Sapling</td> <td>1</td> <td>8</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>30</td> <td>Sapling</td> <td>2</td> <td>8</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Pole/Log	8		Red Oak	5	Sapling	2		Red Maple	10	Sapling	1	8	Quaking Aspen	35	Sapling	2	8	Black Cherry	15	Sapling	1	8	Bigtooth Aspen	30	Sapling	2	8														
Canopy Species	% Cover	Size Class	DBH	Age																																														
White Pine	5	Pole/Log	8																																															
Red Oak	5	Sapling	2																																															
Red Maple	10	Sapling	1	8																																														
Quaking Aspen	35	Sapling	2	8																																														
Black Cherry	15	Sapling	1	8																																														
Bigtooth Aspen	30	Sapling	2	8																																														
<b>47</b>	4130 - Aspen	Sapling Well	63.5	15	Immature	N/A																																												
<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>Black Cherry</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>30</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10	Sapling	2		White Pine	5	Sapling	3		Bigtooth Aspen	30	Sapling	3	15	Quaking Aspen	30	Sapling	3	15	Red Oak	5	Sapling	2		Red Maple	20	Sapling	2		<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>Hawthorn (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub	Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																														
Black Cherry	10	Sapling	2																																															
White Pine	5	Sapling	3																																															
Bigtooth Aspen	30	Sapling	3	15																																														
Quaking Aspen	30	Sapling	3	15																																														
Red Oak	5	Sapling	2																																															
Red Maple	20	Sapling	2																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub																																															
Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling																																															





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

<b>48</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	118.1	8	Immature	N/A	141 Chipper Cherry sale completed August of 2016. All oak, red, and white pine were left along with green marked.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		35	Sapling	2	8	Serviceberry (Juneberry)		Medium	5 - 10 feet	Sapling
Red Oak		5	Sapling/Pole	2		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub
Black Cherry		50	Sapling	3	8					
Red Maple		5	Sapling	2	8					
Bigtooth Aspen		5	Sapling	2						

<b>49</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	13.7	43	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		45	Pole	6	43	Red Maple		High	10 - 20 feet	Sapling
Red Oak		25	Pole	6						
White Oak		10	Pole	6						
Bigtooth Aspen		20	Pole	7						

<b>50</b>	4311 - Pine, Aspen Mix	Poletimber Well	32.8	53	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		35	Pole	8	53	Red Maple		Low	Variable	Sapling
Red Maple		15	Pole/Sapling	6		Red Oak		Low	Variable	Sapling
Red Oak		5	Pole	6						
Red Pine		20	Log/Pole/XLog	14						
White Pine		25	Log/Pole/XLog	12						

<b>51</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	15.7	23	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Black Cherry		10	Sapling	3						
White Oak		10	Sapling	3						
Jack Pine		5	Sapling/Pole	3						
Bigtooth Aspen		15	Sapling/Pole	3						
White Pine		5	Sapling/Pole	3						
Red Maple		35	Sapling/Pole	3	23					
Red Oak		20	Sapling	2						