



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61140

Entry Year 2023

Acreage: 1,598

County Kalkaska

Management Area: AuSable Outwash

Revision Date: 2021-05-20

Stand Examiner: Paul Roell

Legal Description:

T25N, R5W, Sec. N1/2 of 13, 14 & 15

Identified Planning Goals:

Vegetation management in the AuSable Outwash management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character, threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on improving the age-class structure of aspen, harvesting older jack pine and regeneration of red pine and oak to help balance age-classes. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity and management of the state wildlife management areas. Expected trends within this 10-year planning period are an increase in non-native exotic plants, especially Phragmites in the wetland areas and increased recreational pressure.

Soil and topography:

: Roselawn, Rubicon & Grayling sands. Mostly flat to gently rolling.

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

The entire compartment is state owned land. There is no development other than the oil/gas activity. This compartment is leased to the military for training purposes under the terms of a lease agreement.

Land use in and around the compartment is primarily recreational in nature. Snowmobiling and hunting are the main activities. Military training maneuvers cause considerable traffic and activity in the forest and along the roadways for a few weeks during the traditional training period. There is daily traffic on the forest trails and county roads by service crews monitoring oil/gas facilities within the compartment.

Unique Natural Features:

There are unique natural features within the compartment. MNFI comments and considerations have been taken into account.

Archeological, Historical, and Cultural Features:

There are Archeological concerns within the area.

Special Management Designations or Considerations:

All of the compartment is in the 10 year military lease area for training purposes.

Watershed and Fisheries Considerations:

There is no surface water in this compartment.

Wildlife Habitat Considerations:

Compartment 140 is located in SE Kalkaska County and encompasses two different types of glacial land forms, a sandy outwash plain and parts of several ice contact ridges. This compartment is Military Board Land associated with Camp Grayling.

This sandy outwash plain supports a mixture of oak, aspen, and grassland/brush communities. Fire was a major disturbance on these dry soils and should be considered a valuable treatment tool in perpetuating these fire driven ecosystems. Timber harvests should be designed to mimic wildfires of various intensities, when possible. Sales can be designed to protect fruiting shrubs, leave various mast producing trees, and create dead and downed logs, while producing wood for consumer use and stimulating the regeneration of future forest habitats. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Species found in these early to mid-successional communities include white-tailed deer, ruffed grouse, eastern bluebird, smooth green snake, meadow vole, and red-tailed hawk.

An ice contact ridge extends into the central portion of the compartment from the north. These ridges once supported a variety of fire dependent communities, most notably, coniferous forests. As with the adjacent outwash plains, sales on the ridges should be designed to mimic natural disturbances such as fire, which probably originated on the outwash plains and continued up the dry soils of the ice contact ridges. Harvest prescriptions should be designed to leave white oak for mast production. Gray squirrel, wild turkey, red-eyed vireo, eastern screech owl, and northern brown snake are some of the many wildlife species one might find here.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is four miles to the northeast. There appears to be some sand potential within the compartment. The compartment lies between two active oil & gas fields. All of Section 13 is currently leased and under production as part of the Beaver Creek Field. No wells have been drilled in sections 14 & 15. It is possible there could be additional potential for production from beneath the compartment. The Crawford County Road Commission operates a natural brine production well one mile southeast of the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Gravel and sand seasonal two-track county roads surround each section in the compartment. There are some interior state forest roads for oil and gas and general management access.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment.

Fire Protection:

Fire coverage for this area is assigned to the MDNR Kalkaska Field Office with assistance available from the local township Volunteer Fire Departments. DNR wildfire equipment is also available from the Roscommon DNR and Grayling DNR offices. Lack of nearby water for use as a fire suppression source is a concern. Road access is limited in some areas in this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

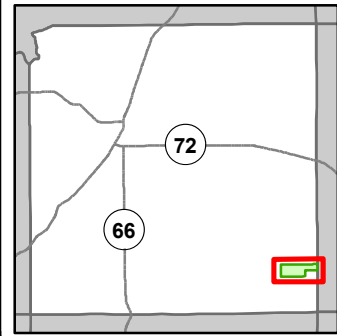
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

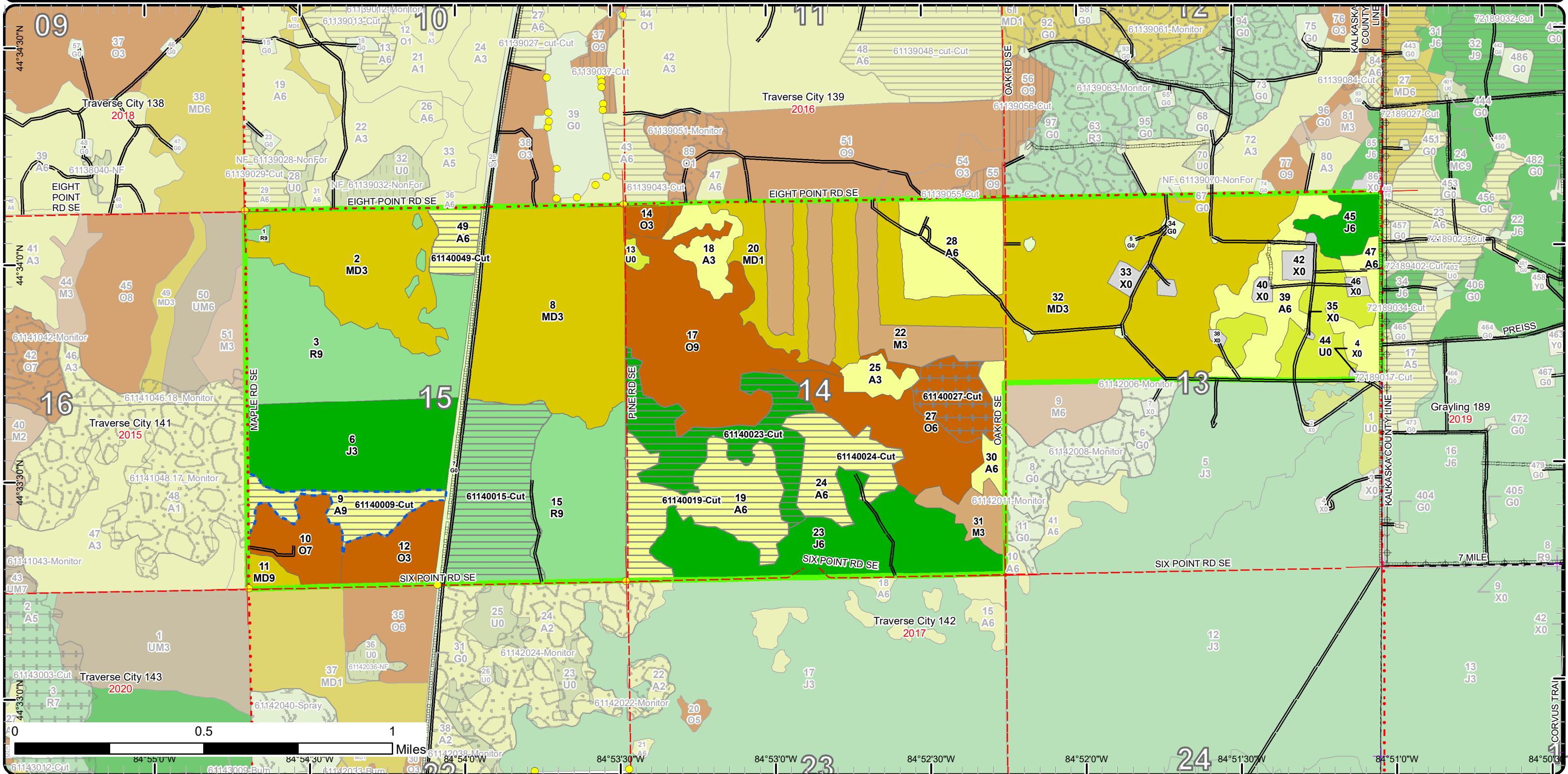
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 140
 T25N, R05W, Sec. N1/2 of 13, 14, 15
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: AuSable Outwash
 YOE: 2023
 Acres: 1597.8 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 9/15/2021
 Map Phase: Post-Review

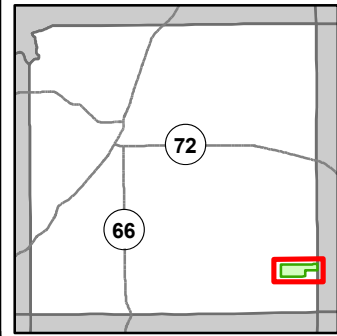


- Miris Corners
 - + Remonumented Section Corners
 - Survey Grade Corners
 - Counties
 - DNR - Secondary Forest Road
 - Federal / State - Dirt / Gravel Road
 - County - Gravel Road
 - County - Dirt Road (Seasonal)
 - Pipeline
 - Powerline
 - Compartment Boundary
 - Treatments with Site Conditions
 - Clearcut (w/Reserves)
 - Harvest, Overstory Removal
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 110 - Low Intensity Urban
 - 310 - Herbaceous Openland
 - 330 - Low Density Trees



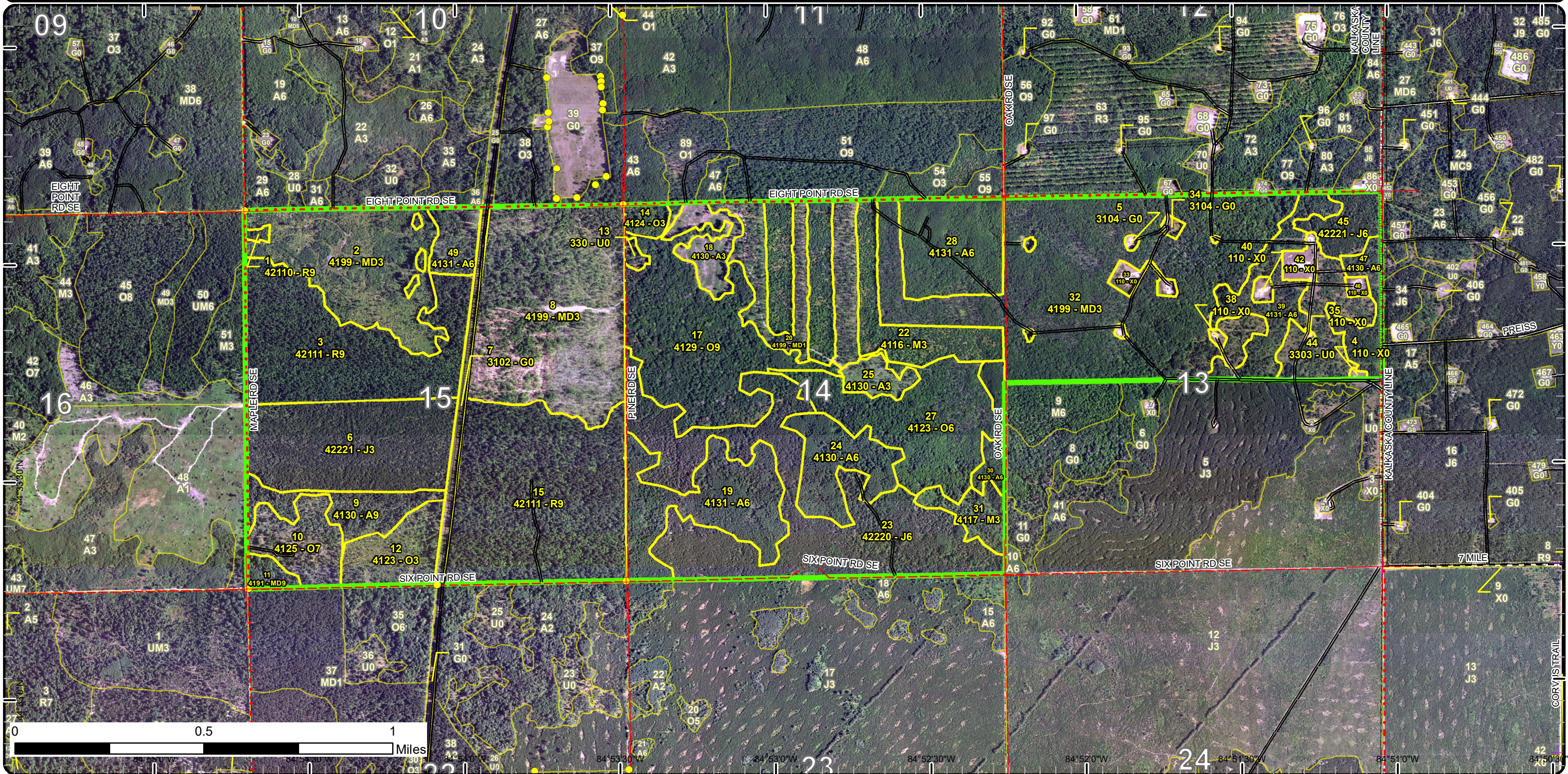
0 0.5 1 Miles
 84°55'0"W 84°54'30"W 84°53'30"W 84°53'0"W 84°52'30"W 84°52'0"W 84°51'30"W 84°51'0"W

Stand Boundary Map



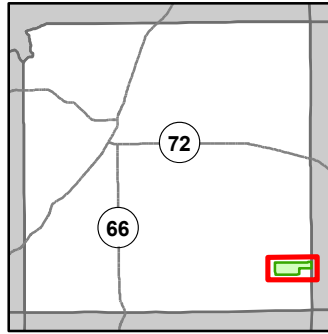
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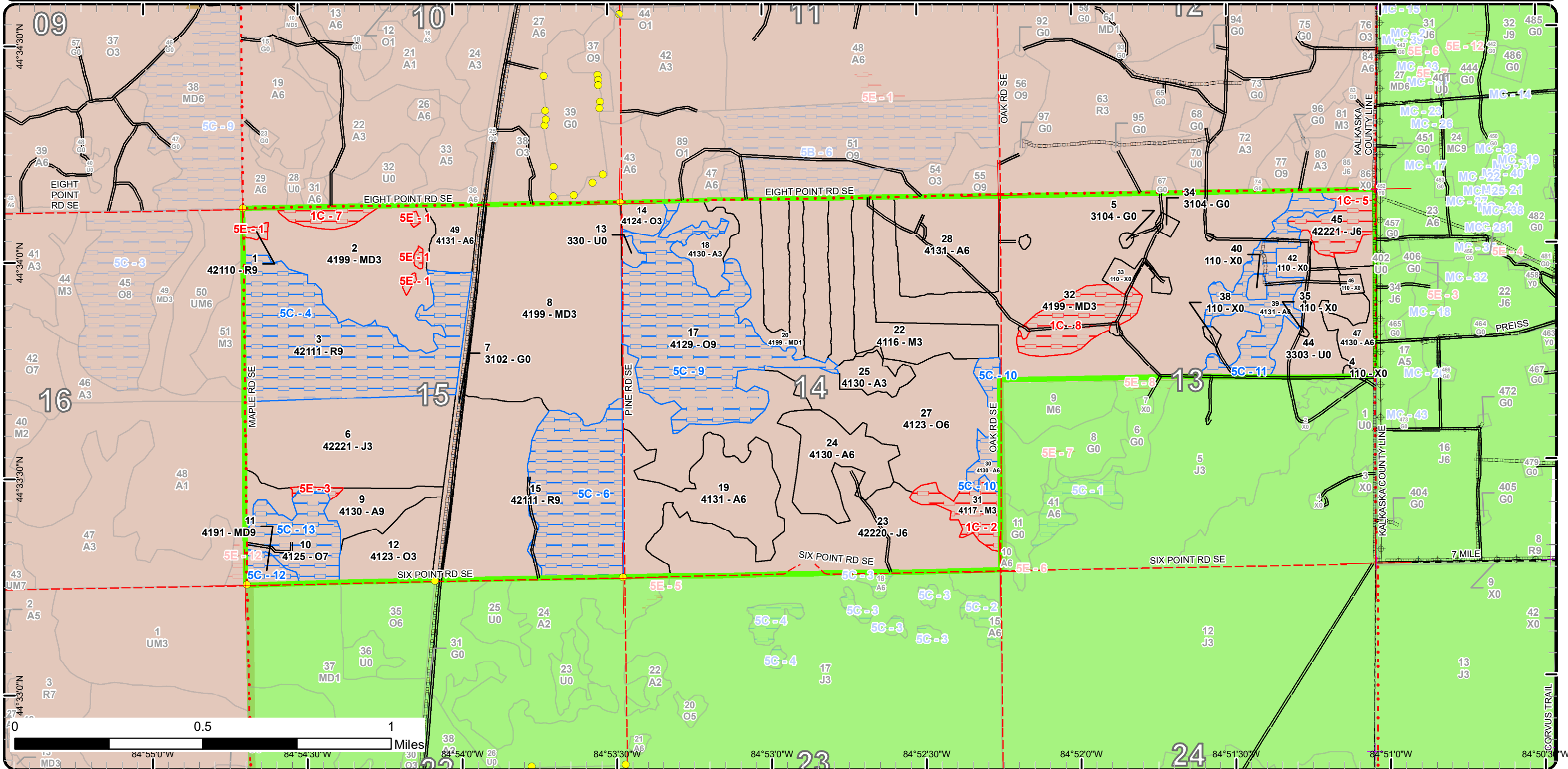


Special Conservation Areas

Compartment: 140
 T25N, R05W, Sec. N1/2 of 13, 14, 15
 County: Kalkaska
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- Miris Corners
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- Counties
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1C: Other dept or div proc/practices
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- 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+	Uneven-Aged	Total
Aspen	0	27	0	0	0	61	151	24	0	0	0	0	0	0	0	0	0	0	262
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Jack Pine	0	0	0	98	0	139	0	0	0	0	0	0	0	0	0	0	0	0	237
Low-Density Trees	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Mixed Upland Deciduous	0	397	79	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	482
Northern Hardwood	0	0	68	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Oak	0	0	33	0	0	0	70	0	0	27	96	0	0	0	0	0	0	0	226
Red Pine	0	0	0	0	0	0	0	0	0	235	0	0	0	0	0	0	0	0	234
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	75	424	180	98	14	200	221	24	0	262	96	6	0	0	0	0	0	0	1597



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 140
Total Compartment Acres: 1,598

Commercial Harvest - 245
Harvests with Site Condition - 24
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	129	0	0	0	0	0	0	0	0	129
Jack Pine	51	0	0	0	0	0	0	0	0	51
Oak	0	0	0	0	0	24	0	0	0	24
Red Pine	66	0	0	0	0	0	0	0	0	66
Total	245	0	0	0	0	24	0	0	0	269

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	269	0	0	0	0	0	0	0	0	269
Next Step	0	132	66	0	0	198	311	0	0	707
Total	269	132	66	0	0	198	311	0	0	977



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

9	61140009-Cut	24.1	4130 - Aspen	Sawtimber Well	63	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> clear cut all trees two inches and greater. Possibly leave white oak or green mark some mixed species. Area retention has already been designated.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a minor component of cherry maple oak and mixed pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Long-Term Retention</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
15	61140015-Cut	66.0	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	86	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Require low stumps and chipping to facilitate planting operations. Place retention on the north end of the treatment near stand</p> <p><u>Specs:</u> 8</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> red pine which fulfills management plan stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
19	61140019-Cut	58.1	4131 - Aspen, Oak	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and larger. Possibly green mark some scattered white oak and or other large diameter desirable trees. Use minimal area retention. Oak Wilt and KW considerations for timing of harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a minor component of red maple oak and mixed pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
23 61140023-Cut	50.9	42220 - Natural Jack Pine	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Possibly leave some scattered white oak or other large diameter trees for structure. Minimal area retention. Oak Wilt and KW considerations for timing of harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine mixed with oak aspen and red maple</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
24 61140024-Cut	32.6	4130 - Aspen	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and larger. Possibly green mark some scattered white oak and or other large diameter desirable trees. Use minimal area retention. Oak Wilt and KW considerations for timing of harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a minor component of red maple, oak and mixed pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
27 61140027-Cut	23.8	4123 - Red Oak	Poletimber Well	52	51-80	Harvest	Overstory Removal	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and larger except white oak and pine. Include oak wilt specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak, aspen and a minor component of red maple</p> <p><u>Regen:</u></p> <p><u>Other</u> Must of the red oak has died and or is dying. The goal of this treatment is to Salvage the oak, regenerate the aspen and red maple and also</p> <p><u>Comment:</u> release the advance white oak.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
49 61140049-Cut	13.7	4131 - Aspen, Oak	Poletimber Well	55	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. No retention to maximize regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a minor component of rec maple, oak, and mixed pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment
Acreage Proposed: 269.2

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 140

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	1C	5E
		With Condition	Not Available				
263	215	46	1	Aspen	46		1
19	19	0	0	Herbaceous Openland			
237	220	0	16	Jack Pine		16	
39	39	0	0	Low-Density Trees			
482	445	6	31	Mixed Upland Deciduous	6	31	
82	68	0	14	Northern Hardwood		14	
226	103	123	0	Oak	123		
234	66	165	3	Red Pine	165		3
16	16	0	0	Urban			
1,598	1,191	340	66	Total Forested Acres	340	62	4
	75%	21%	4%	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	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	1C: Other dept or div proc/practices	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 140

Year of Entry: 2023

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	1C: Other dept or div proc/practices	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	1C: Other dept or div proc/practices	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	1C: Other dept or div proc/practices	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	96	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 140

Year of Entry: 2023

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	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



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	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.
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	42110 - Planted Red Pine	Sawtimber Well	3.2	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 Pine</td> <td>100</td> <td>XLog/Log</td> <td>18</td> <td>88</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	XLog/Log	18	88	<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>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Full</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	Variable	Sapling	Red Oak	Full	Variable	Sapling																						
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2	4199 - Other Mixed Upland Deciduous	Sapling Well	78.9	13	Immature	N/A	Thornapple Red RPP Sale #97-08. Oak and black cherry were left in sale.																																										
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3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	98.6	88	81-110	N/A																																											
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5	3104 - Degraded	Nonstocked	2.6	0																																													
6	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	81.5	28	Immature	N/A																																											
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Jack Pine	60	Sapling/Pole	4	28																																													
Black Cherry	15	Sapling	3																																														
7	3102 - Grass	Nonstocked	14.5			No	Pipeline.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 4199 - Other Mixed Upland Deciduous Sapling Well 134.7 5 Immature N/A stand consists of two age classes

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Sapling/Pole	3	5
White Oak	15	Sapling/Pole	2	
Black/Red (Hybrid) Oak	25	Sapling/Pole	4	
White Pine	5	Log/Pole	10	
Red Pine	5	Pole/Log	8	
Bigtooth Aspen	10	Pole	6	

9 4130 - Aspen Sawtimber Well 24.1 63 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Pole/Sapling	6		Black Cherry	Medium	Variable	Sapling
Bigtooth Aspen	60	Log/Pole	10	63	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Pine	5	XLog/Log	20					
Jack Pine	5	Pole	8					
Red Maple	20	Pole	6					
Black Cherry	5	Pole	8					

10 4125 - Black, N. Pin Oak Sawtimber Poor 27.1 85 1-50 N/A Heavy oak regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	70	Log/Pole/Sap	10	85	Serviceberry (Juneberry)	Full	10 - 20 feet	Tall Shrub
Red Pine	10	Log	12		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	5	Log/Pole	10		Jack Pine	Low	5 - 10 feet	Sapling
White Oak	15	Pole/Log	8		Black Cherry	Medium	10 - 20 feet	Sapling

Stand was harvested in 2015, Maple Road Jack 61-060-13-01.

11 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 6.1 103 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	12		Red Maple	High	Variable	Sapling
Black/Red (Hybrid) Oak	50	Log/XLog	16	103	Black/Red (Hybrid) Oak	High	Variable	Sapling
White Oak	3	Log	12		White Oak	Low	Variable	Sapling
Bigtooth Aspen	2	Log/Pole	13		Serviceberry (Juneberry)	Medium	Variable	Sapling
White Pine	20	Log/Pole	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12	4123 - Red Oak	Sapling Well	26.6	13	Immature	N/A	Thornapple Red RPP Sale #97-08. Left oak
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
Red Oak	60	Sapling/Pole	3	13
Bigtooth Aspen	5	Sapling	3	
Red Pine	5	Log/Pole/Sap	16	
White Oak	5	Sapling	2	
Black Cherry	5	Sapling	3	

13	330 - Low-Density Trees	Nonstocked	2.3			No	
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14	4124 - Red with White Oak	Sapling Well	6.2	17	Immature	N/A	Strip Oak Sale #022-00
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Red Oak	5	XLog	20	
Red Oak	50	Sapling	4	17
Bigtooth Aspen	5	Sapling	3	
White Oak	30	Sapling/Pole	3	17

15	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	132.7	86	111-140	N/A	Red pine planted in 1934. A cut was done in 1984, Sale #028-80, removing everything but the red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	10	Pole/Sapling	6	
Red Pine	60	Log/XLog	16	86
White Oak	10	Sapling/Pole	4	
Red Maple	20	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
White Oak	Low	Variable	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

17	4129 - Mixed Oak	Sawtimber Well	95.6	95	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Log	8	
Red Oak	30	Log/Pole	12	
White Oak	30	Log/Pole	12	95
Bigtooth Aspen	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	High	Variable	Sapling
White Oak	High	Variable	Sapling
Red Maple	High	Variable	Sapling

18	4130 - Aspen	Sapling Well	16.8	6	Immature	N/A	Cut 2015. Left 10 sf/acre of oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	
Red Oak	5	Log/Pole/XLog	14	
White Oak	5	Log/Pole/XLog	14	
Bigtooth Aspen	75	Sapling	2	6



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4131 - Aspen, Oak	Poletimber Well	58.1	52	51-80	N/A	Fletcher Fire went through this area - 1968.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		20	Pole/Log	8		Red Oak	
Bigtooth Aspen		45	Pole/Log	8	52	Medium	
Jack Pine		5	Pole	6		Variable	
Quaking Aspen		20	Pole	8		Sapling	
White Oak		10	Pole	6		Sapling	
						Avg. Height	
						Size	
20	4199 - Other Mixed Upland Deciduous	Sapling Poor	45.9	4	Immature	N/A	over story was removed in 2017 due to oak mortality
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		30	Sapling	1	4		
Red Maple		40	Sapling	1	4		
Bigtooth Aspen		20	Sapling	1			
White Oak		10	Sapling	1			
22	4116 - Mixed N. Hardwood - Aspen	Sapling Well	67.8	17	Immature	N/A	Strip Oak Sale # 022-00
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		70	Sapling	3	17	Witch Hazel	
Red Oak		10	Sapling	2		Low	
Bigtooth Aspen		20	Sapling	2		Variable	
						Tall Shrub	
23	42220 - Natural Jack Pine	Poletimber Well	138.9	48	81-110	N/A	Fletcher Fire went through this area - 1968.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		2	Pole	6		Red Oak	
Bigtooth Aspen		5	Pole	8		Low	
Jack Pine		93	Pole	8	48	Variable	
						Sapling	
24	4130 - Aspen	Poletimber Well	32.6	52	51-80	N/A	Fletcher Fire went through this area - 1968.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		5	Pole/Sapling	6		Red Oak	
Bigtooth Aspen		50	Pole/Log	8	52	Medium	
Red Maple		10	Pole	6		Variable	
Quaking Aspen		30	Pole	6		Sapling	
White Oak		5	Pole	6		Sapling	
						Avg. Height	
						Size	
25	4130 - Aspen	Sapling Well	9.7	6	Immature	N/A	Cut fall 2015.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	1			
Red Oak		7	Pole/Sapling	6			
White Oak		3	Sapling/Pole	4			
Bigtooth Aspen		80	Sapling	2	6		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
27	4123 - Red Oak	Poletimber Well	70.3	52	51-80	N/A	Fletcher Fire went through this area - 1968.																																		
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28	4131 - Aspen, Oak	Poletimber Well	44.9	41	51-80	N/A	Clearcut in 1981. Sale #8-80A																																		
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31	4117 - Mixed N. Hardwood - Pine	Sapling Well	14.4	30	Immature	N/A	Fletcher Fire went through this area - 1968.																																		
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32	4199 - Other Mixed Upland Deciduous	Sapling Well	216.5	5	Immature	N/A	This stand was originally RX as a species removal harvest but after it was sold the contract was modified to a final harvest because of extensive oak mortality.																																		
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35	110 - Low Intensity Urban	Nonstocked	0.3																																															
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42	110 - Low Intensity Urban	Nonstocked	5.4				Well site.																																											
44	3303 - Mixed Low Density Trees	Nonstocked	36.5		Immature	No																																												
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45	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	16.3	29	1-50	N/A	County Line Sale #002-90. All merchantable jack pine, aspen and oak were cut.																																											
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47	4130 - Aspen	Poletimber Well	16.5	45	51-80	N/A																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49	4131 - Aspen, Oak	Poletimber Well	13.7	55	51-80	N/A	Red pine planted in 1934. A cut was done in 1984, Sale #028-80, removing everything but the red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	25	Pole	8	
Red Pine	5	Pole	8	86
Bigtooth Aspen	60	Pole	8	55
White Pine	5	Pole/Log	8	
Red Maple	5	Pole	8	

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