



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61123

Entry Year 2023

Acreage: 1,785

County Kalkaska

Management Area: Grayling Outwash

**Revision Date:** 2021-05-19

**Stand Examiner:** Katie Armstrong

### Legal Description:

T26N R5W Section 7; T26N R6W Sections 11 and 12

### Identified Planning Goals:

Management in the Grayling Outwash management area will emphasize balancing the age class of aspen on suitable sites, thinning the northern hardwood stands, balancing age classes of red pine and jack pine, and regenerating the aging swamp hardwood and conifer resources, where possible. Management will strive to sustainably produce various timber products, enhance game and non-game wildlife habitat, protect areas of unique character, and provide for forest-based recreational opportunities. Forest management activities are constrained by poor access in the swampy portions of this management area, some of which fall in the riparian zone of the Manistee River and its tributaries, protected by a Natural River designation. Expected trends within this 10-year planning period are increased recreational pressure, introduced pests and diseases and the difficulty in regenerating desirable hardwood species and lowland cover types.

### Soil and topography:

The western part of the compartment is generally flat with some lowland areas close to the North Branch of the Manistee River. The eastern part of the compartment is flat to rolling hills with a few steep slopes in the hardwoods. Soil types are mainly Kalkaska and Newton Loamy Sand, Rifle Peat, Rubicon, Roselawn, Saugatuck, and Emmet Sands.

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

There are two areas of private ownership with year round or seasonal residences in Section 11 (40 acres and 80 acres). The east end of the compartment is partially bordered by the privately owned Black River Association.

### Unique Natural Features:

The conservation area reviewer shows no ERAs, SCAs or MNFI biotics within this compartment.

### Archeological, Historical, and Cultural Features:

There is something of archaeological significance in Section 7.

### Special Management Designations or Considerations:

The North Branch of the Manistee River and an unnamed tributary are protected by native vegetation buffers. The entire compartment is part of the 10-year lease to the Department of Military and Veterans Affairs for Camp Grayling training.

### Watershed and Fisheries Considerations:

The North Branch of the Manistee River and an unnamed tributary flow through this compartment. Both are Designated Trout Streams. The North Branch of the Manistee River has naturally reproducing populations of brook and brown trout. The Natural Rivers native vegetation buffer for the North Branch of the Manistee River is 175 feet, so no cutting should occur within that zone. The unnamed tributary should be protected by a riparian management zone of at least 100 feet per Michigan Best Management Practices.

### Wildlife Habitat Considerations:

Compartment 123 is comprised of three different Land Type Associations (LTA). The northwest portion lies on a flat, poorly drained outwash plain (LTA 5149). In presettlement times this LTA was dominated by coniferous wetlands with small occurrences of upland coniferous and northern hardwood forests. Present vegetation leans more towards early successional communities. Maintaining early successional communities, including upland brush, on a portion of this LTA is appropriate as natural disturbances such as windfalls and wildfires do occasionally occur here. However, existing coniferous wetlands, as well as aspen stands with a significant coniferous or northern hardwood component, should be allowed to succeed to later successional communities. Conifer dominated wetlands, in association with dry upland inclusions, provide habitat for white-tailed deer, snowshoe hare, bobcat, evening grosbeaks, massasauga rattlesnakes, blazing star, and secretive locusts.

The southwest portion of this compartment is situated on an ice-contact ridge with few kettle lakes (LTA 3121). The

majority of this LTA within compartment 123 consists of large contiguous block of northern hardwoods. Aspen is present on the eastern fringe of the hardwoods. The presence of aspen on this fringe seems appropriate as evidence of wildfires have been noted here. Thinnings in hardwood stands should be designed to leave snags, cavity trees, and coarse woody debris as nesting sites and food sources for forest interior species, including scarlet tanagers, pileated woodpeckers, eastern gray squirrels, and four-toed salamanders.

A small inclusion of flat, excessively well drained outwash plain (LTA 5111) extends into the south-central portion of the compartment. Although this LTA is typically a fire driven ecosystem, narrow fingers of outwash plain like what occurs in this compartment, are less prone to burn and more likely support later successional communities like northern hardwoods and/or conifer forests. This portion of compartment 123 currently supports several red pine and aspen stands. Aspen cuts should utilize any mast producers, conifers, or long-lived tree species as leave trees/islands. Also, as many snags as possible should be left to provide additional vertical structure. This portion of LTA 5111 should be managed in conjunction with adjacent portions of 5111 for a variety of forest age classes, successional stages, and patch sizes.

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

No active sand/gravel pits occur in the area, but there appears to be potential for sand, and perhaps some gravel, in the compartment. The compartment is too far south to have any potential for Antrim Shale gas or Guelph formation reef reservoirs. There was past exploration and testing of the Collingwood Formation in this area. The Excelsior Collingwood wells to the north are still in production, but the Collingwood Formation overall has not been proven to be a viable economic play in Michigan, and additional future development in the Collingwood is unlikely at current gas prices. Active leases occur in Section 12 and are held by production from the Collingwood wells. There is no known metallic mineral potential in this part of the state. [Peter Rose, 2/19/2021]

### **Vehicle Access:**

There is sufficient vehicular access throughout the compartment.

### **Survey Needs:**

DNR surveyors set all of the corners around the private property in Section 11 since the last inventory. Corners are also in place around Section 7 adjacent to the private property at the east end of the compartment. There are no survey needs at this time.

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

Almost two miles of the snowmobile trail and 1.5 miles of ATV trail run through the east end of the compartment.

### **Fire Protection:**

Fire protection is provided by the Michigan DNR, Kalkaska Field Office with additional support from the Michigan DNR, Grayling Field Office, and volunteer fire departments. There are multiple water access points in the compartment, if necessary. The extensive hardwoods, lowland and mesic cover types suggest that the risk of catastrophic wildfire is relatively low.

### **Additional Compartment Information:**

T26N R5W Section 7 SENW was acquired with funding from State Game Fund.

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

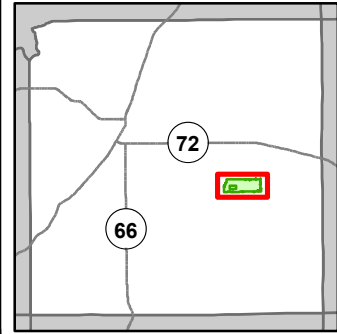
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

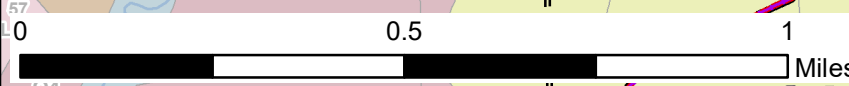
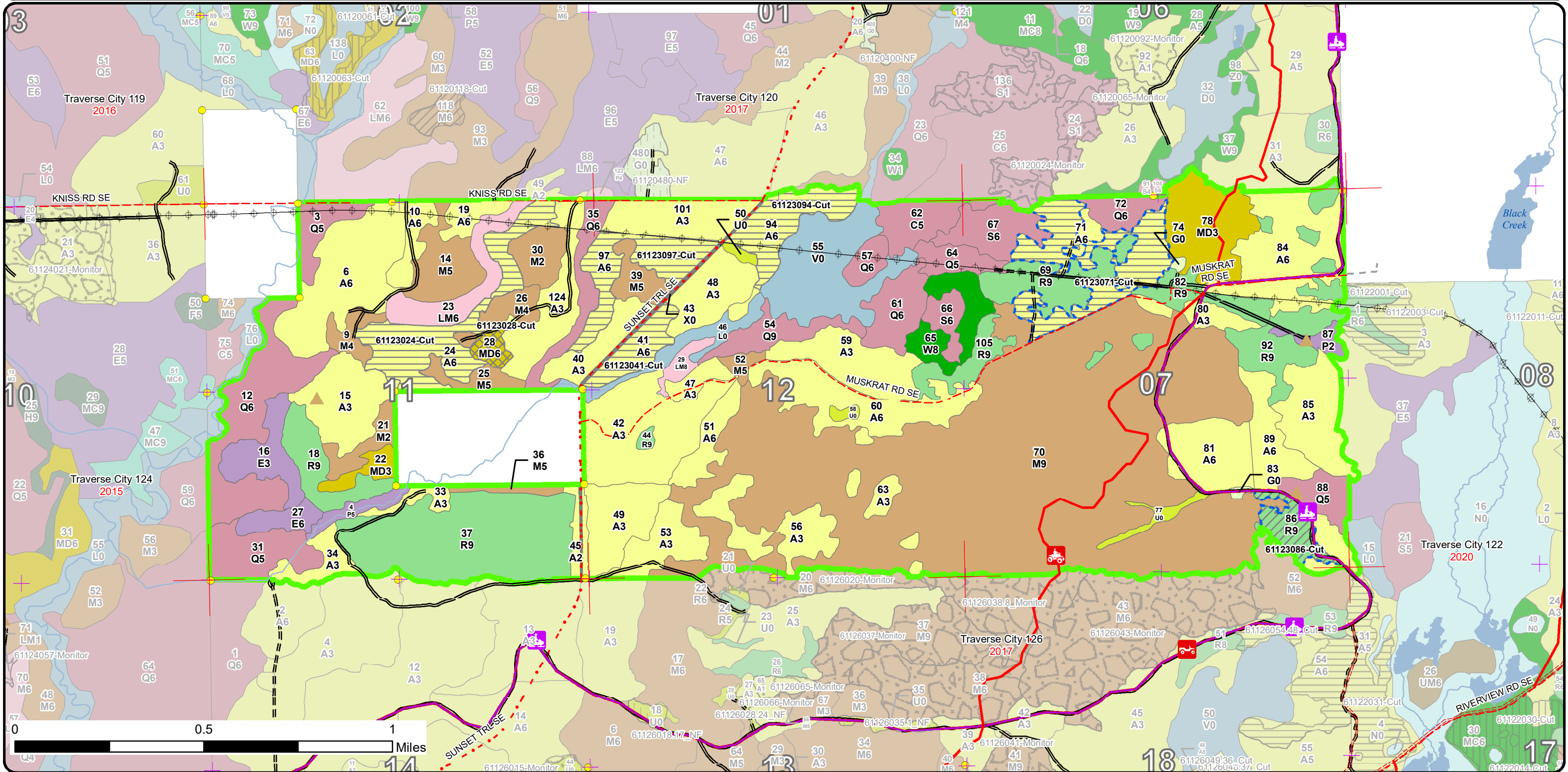
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 123  
 T26N, R06W, Sec. 11, 12  
 T26N, R05W, Sec. 7  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Grayling Outwash  
 YOE: 2023  
 Acres: 1785.1 GIS Calculated  
 Examiner: Katie Armstrong  
 Map Revised: 9/15/2021  
 Map Phase: Post-Review



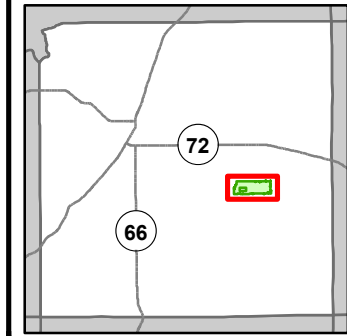
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- 🚗 ORV Routes
- 🚙 Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



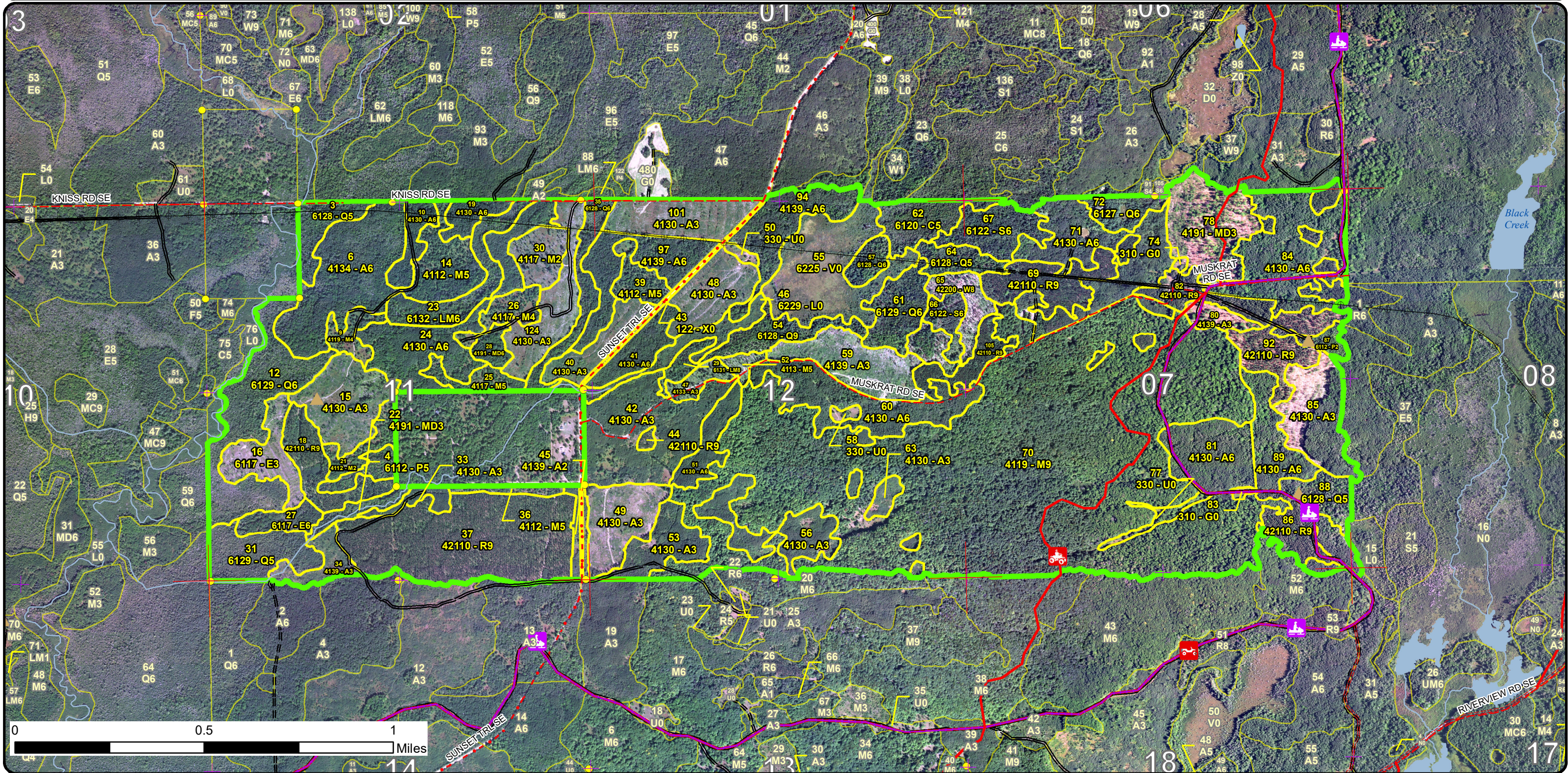


# Stand Boundary Map

Compartment: 123  
 T26N, R06W, Sec. 11, 12  
 T26N, R05W, Sec. 7  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Grayling Outwash  
 YOE: 2023  
 Acres: 1785.1 GIS Calculated  
 Examiner: Katie Armstrong  
 Map Revised: 9/15/2021  
 Map Phase: Post-Review



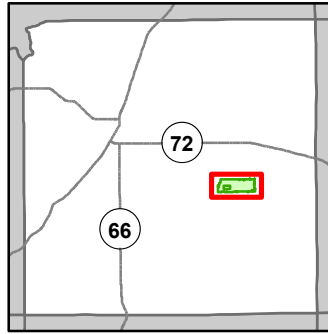
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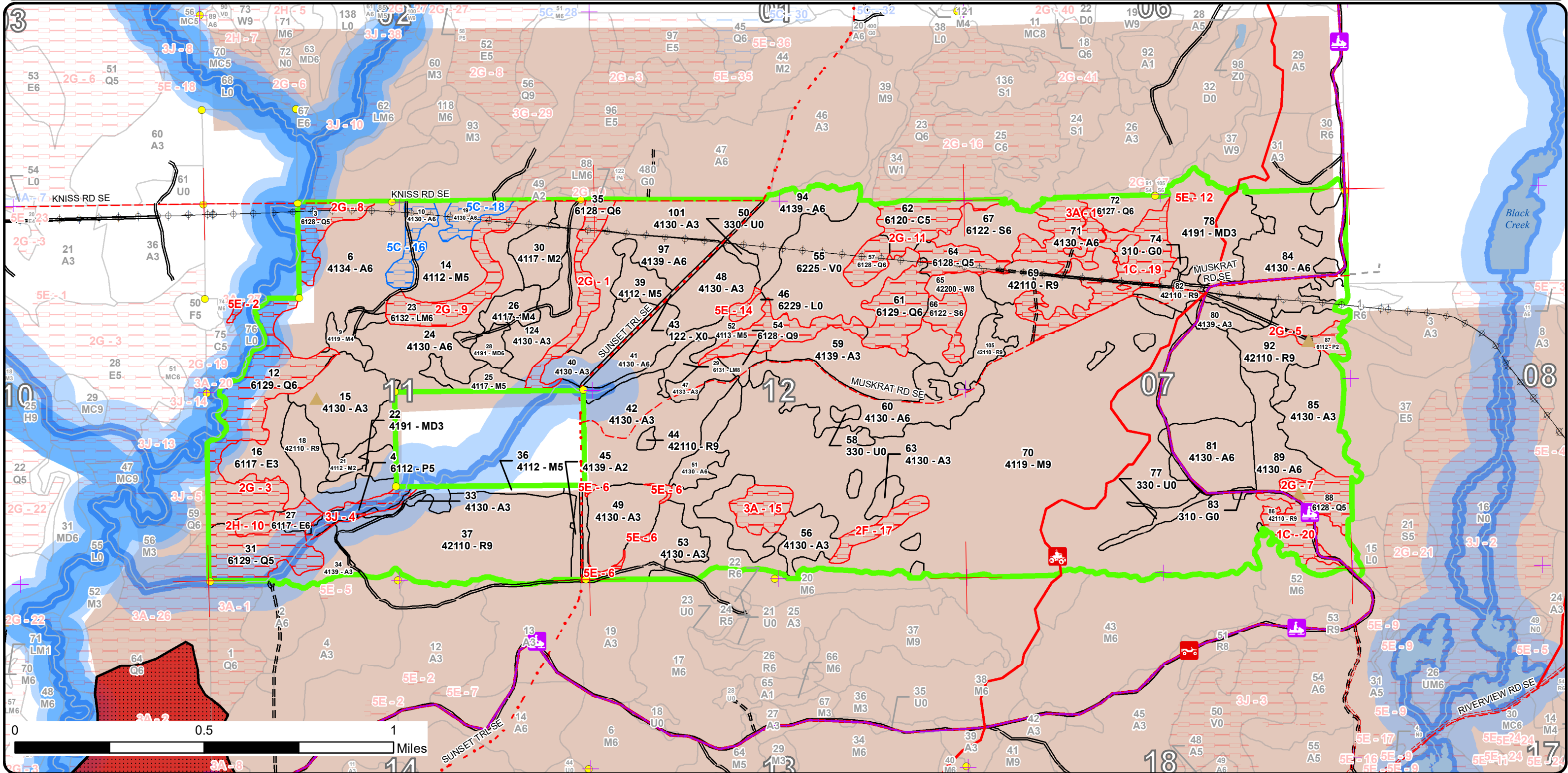
# Special Conservation Areas

Compartment: 123  
 T26N, R06W, Sec. 11, 12  
 T26N, R05W, Sec. 7  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Grayling Outwash  
 YOE: 2023  
 Acres: 1785.1 GIS Calculated  
 Examiner: Katie Armstrong  
 Map Revised: 9/15/2021  
 Map Phase: Post-Review



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- 🚲 Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep

- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Habitat Corridor





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	217	65	57	73	143	118	0	0	0	0	0	0	0	0	0	0	0	672
Bog	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Cedar	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	0	5	0	0	0	6	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	0	0	54	96	12	0	0	0	0	0	0	0	162
Lowland Deciduous	0	18	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	0	0	0	0	0	0	0	5	0	19	0	0	0	0	0	0	0	0	24
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Spruce/Fir	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	33	6	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	44
Northern Hardwood	0	12	0	0	12	25	29	0	3	442	0	0	0	0	0	0	0	0	523
Red Pine	0	0	0	0	0	0	193	0	0	0	0	0	0	0	0	0	0	0	193
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>73</b>	<b>280</b>	<b>71</b>	<b>57</b>	<b>90</b>	<b>176</b>	<b>340</b>	<b>30</b>	<b>81</b>	<b>578</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1787</b>





## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 123  
Total Compartment Acres: 1,785

Commercial Harvest - 105  
Harvests with Site Condition - 54  
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	141	0	0	0	0	0	0	0	0	141
Mixed Upland Deciduous	0	5	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	13	0	0	0	13
<b>Total</b>	<b>141</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>159</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	159	0	0	0	0	0	0	0	0	159
Next Step	0	0	0	0	0	0	147	0	0	147
<b>Total</b>	<b>159</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>147</b>	<b>0</b>	<b>0</b>	<b>306</b>





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

<b>24</b>	<b>61123024-Cut</b>	39.1	4130 - Aspen	Poletimber Well	51	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest aspen and most other species. Either leave all white pine or green tree some to leave depending on localized density. Leave area retention around the white pine/hardwood valley at south end and/or along wet edges. Protect AT&amp;T fiberoptic line.</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, white pine, balsam fir, red maple, black cherry, oak, birch.</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>											
<b>28</b>	<b>61123028-Cut</b>	5.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	80	81-110	Harvest	Group Selection	42201 - Natural White Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Remove merchantable aspen, red maple, and cherry along with treatment of stand 24. Would like to push this stand towards white pine for some conifer diversity in this area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, red maple, aspen, black cherry, oak, balsam fir.</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>											
<b>41</b>	<b>61123041-Cut</b>	12.8	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest, maintaining some stand diversity by leaving most or all white pine and scattered under-represented species. Save as much small single stem red maple as possible. Leave retention along wet edge.</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, red maple, black cherry, white pine, balsam fir, oak.</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
<b>71 61123071-Cut</b>	41.4	4130 - Aspen	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest short-lived species while attempting to maintain stand-level diversity. Leave area retention around treed bog (approximate extent already removed from treatment), other lowland areas, and/or pockets of species diversity. Leave unmerchantable balsam fir and protect desirable advanced regeneration. Protect AT&amp;T fiberoptic line.</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, red maple, white pine, balsam fir.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>86 61123086-Cut</b>	12.7	42110 - Planted Red Pine	Sawtimber Well	55	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove defect and suppressed trees then mark for spacing to BA of about 120 sf/acre. Protect snowmobile trail. Consider leaving previously unthinned parts as is. Delay treatment to coincide with thinning of 61126053 and make these two small treatments more marketable.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>										
<b>94 61123094-Cut</b>	23.1	4139 - Aspen, Mixed Deciduous	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest aspen and some of other species. Leave tree-length buffer at the edge of the bog and along the drainage in the north end.</p> <p><u>Specs:</u> Leave some white pine and under-represented species in the north end through small retention pockets and/or green paint. Protect desirable advanced regeneration, especially single stem red maple and unmerchantable balsam fir. Might need to skid through the upland stand in compartment 120 to avoid crossing the drainage. The narrow, wet area at the south end of the stand next to the bog has already been removed from the treatment area as area retention. Protect AT&amp;T fiberoptic line.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, white pine, red maple, black cherry, sugar maple, balsam fir, oak.</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
97 61123097-Cut	24.9	4139 - Aspen, Mixed Deciduous	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest leaving as much unmerchantable red maple as possible. Leave scattered white pine, balsam fir and cherry with green paint or diameter spec. Retention at south end or west side against wet edge. Protect AT&amp;T fiberoptic cable and preserve old grade. Treatment may dip into Stand 39 to grade some merchantable timber along the boundary.</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, red maple, black cherry, white pine, balsam fir, oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										

**Total Treatment** 159.2  
**Acreeage Proposed:**

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 123  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
672	606	16	49
45	45	0	0
16	0	0	16
2	2	0	0
8	8	0	0
11	0	0	11
159	10	0	150
26	18	0	8
24	5	0	19
13	13	0	0
25	18	0	8
45	44	0	0
82	82	0	0
193	180	0	13
5	5	0	0
18	18	0	0
1,342	1,052	16	274
	78%	1%	20%

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions						
						5C	1C	2G	2H	3A	3J	5E
672	606	16	49		Aspen	16	41	0		2	1	4
45	45	0	0		Bog							
16	0	0	16		Cedar			16				
2	2	0	0		Herbaceous Openland							
8	8	0	0		Low-Density Trees							
11	0	0	11		Lowland Aspen/Balsam Poplar			5			6	
159	10	0	150		Lowland Conifers			150			0	
26	18	0	8		Lowland Deciduous			4	4		0	
24	5	0	19		Lowland Mixed Forest			19				
13	13	0	0		Lowland Shrub							
25	18	0	8		Lowland Spruce/Fir			8				
45	44	0	0		Mixed Upland Deciduous							0
82	82	0	0		Northern Hardwood							
193	180	0	13		Red Pine		13				0	
5	5	0	0		Urban							
18	18	0	0		White Pine							
1,342	1,052	16	274		Total Forested Acres	16	54	202	4	2	8	4
	78%	1%	20%		Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 123  
Year of Entry: 2023

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	71	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> sparse timber in much of it and very wet, much falls within natural river buffer and rest is just to wet to cut							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention from 61-004-13-01, Musky Rat Red, Stand 49.							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 123  
Year of Entry: 2023

9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	71	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Left retention around a small vernal pond. Retention from 123 Monster Muskrat, 61-078-13-01							
13	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small bog inclusions and/or wet ground.							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 123  
Year of Entry: 2023

15	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>2F: Too steep</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> See locked comments.							
20	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> See locked comments.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**3** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 11.8 93 N/A Q5/L0/E4. Mostly lowland stand especially closer to stream and south end. Some manageable aspen adjacent to old grade/AT&T line but it is not worth chasing. Stand used to have a fair bit of black ash.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	25	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole	5		Red Maple	Medium	10 - 20 feet	Sapling
Northern White Cedar	35	Pole/Sap/Log	7	93				
Black Cherry	5	Pole	7					
Quaking Aspen	15	Log/Pole	12					

**4** 6112 - Lowland Aspen Poletimber Medium 6.2 77 N/A Aspen, maple and conifer along stream. Some very large, old aspen along stream.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	50	Log/Pole/Sap	10	77	Musclewood/Hornbeam	Trace	10 - 20 feet	Sapling
Balsam Fir	15	Pole	7	77				
Northern White Cedar	15	Pole	8	77				

**6** 4134 - Aspen, Spruce/Fir Poletimber Well 47.7 34 51-80 N/A Cut ~1987. Bobcat Block, 61-013-83-01. Variable stand with some P, Q, F types. Generally manageable ground with some lowland areas and drain through middle of the stand.2013: NE end has some Q-ish areas. SW is higher ground. F6 areas as well. Some L0 inclusions and north end is wet aspen with scattered balsam.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	50	Pole/Sapling	6	34	Tamarack	Trace	10 - 20 feet	Sapling
Balsam Fir	20	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	8	Sapling	4					
Rock Elm	2	Sapling/Pole	3					
Black Cherry	8	Pole/Sapling	6					
White Pine	2	Log/Pole	12					

**9** 4119 - Mixed Northern Hardwoods Poletimber Poor 7.3 45 1-50 N/A Low density cherry, red maple and white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Sapling	5	
Black Cherry	45	Pole/Sapling	6	45
White Pine	15	Pole/Sapling	6	
Balsam Fir	10	Pole/Sapling	5	

**10** 4130 - Aspen Poletimber Well 9.0 51 81-110 N/A Mixed stand with some nice bigtooth along the old grade/AT&T line. Hold 10 years to cut with Stand 14. FTP G-23 clearcut with D7 and KG blade in 1970.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Pole/Log	8	51	Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	4					
Black Cherry	10	Sapling/Pole	4					
Red Maple	10	Pole/Sapling	6					
Quaking Aspen	50	Pole	6	51				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
12	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	45.1	89	51-80	N/A	Lowland conifer with variable density. Lost 2013 data. A few pockets of larger white pine. Adjacent aspen cut dipped into eastern edge to remove some spruce and fir from this stand.																																										
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14	4112 - Maple, Beech, Cherry Association	Poletimber Medium	19.6	51	1-50	N/A	Mostly clumpy red maple with scattered cherry and open areas. More white pine and balsam along east and south edge and denser in south half. Kelly intended to cut this in 2023 YOY but I don't see much commercial value here yet. FTP G-23 clearcut with D7 and KG blade in 1970.																																										
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15	4130 - Aspen	Sapling Well	27.5	6	Immature	N/A	Cut 2015. Tuck n Roll Mix, 61-038-13-01. Cut with 2" spec except oak, sugar maple, beech, cedar, paper birch and yellow birch. Regenerated to mostly aspen, cherry and red maple stump sprouts with scattered 2-4" dbh balsam fir. Created large brush piles as part of sale for habitat. Original stand had been nicer in the south end; 2 stands were cut in the hopes that aspen would expand into more open north end.																																										
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16	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	17.5	7	1-50	N/A	Cut ~2015 as Tuck n Roll Mix, 61-038-13-01. Cut with 3" spec and left oak, yellow birch, cedar, hemlock and leave trees. Regeneration looks like mostly red maple at this point. Might have to wait longer for the conifers that Kelly was expecting. Some parts are very wet, cattails in the south end.																																										
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18	42110 - Planted Red Pine	Sawtimber Well	18.4	55	111-140	N/A	Row thinned ~2006. Sunset Trail Red Pine. 61-031-03-01. Thinned again 2015 as part of Tuck n Roll Mix, 61-038-13-01. Boundaries are fuzzy with lots of deciduous mixed in. Average BA 125 sf/acre but patchy with small pockets of A3 mix in. Heavy to full red maple understory. Will be hard to maintain as red pine. Heavy browse on shorter maple stems.																																										
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Sub-Canopy Species	Density	Avg. Height	Size																																														
Red Maple	High	>20 feet	Sapling																																														
Beech	Trace	5 - 10 feet	Sapling																																														
Balsam Fir	Trace	10 - 20 feet	Sapling																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	4112 - Maple, Beech, Cherry Association	Sapling Medium	9.2	51	1-50	N/A	Young stump-sprouted maple with mixed in cherry, M4-M5ish and some is more upland brush. FTP G-23 clearcut with D7 and KG blade in 1970.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		70	Pole/Sapling	5	51		
Quaking Aspen		10	Sapling/Pole	4			
Black Cherry		20	Sapling/Pole	4			
22	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	6.4	17	1-50	N/A	Sunset Trail Aspen, 61-030-03-01. Cut ~2006. Boundaries are very hard to pick out on imagery. Cut all trees >2" except pine. Fair bit of overstory red pine left. Clumpy red maple stump sprouts in west end. 1-3" dbh with lots of stems per clump.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		40	Sapling/Pole	2	17		
Quaking Aspen		30	Sapling	1	17		
Balsam Fir		5	Sapling/Pole	4			
23	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	19.3	89	51-80	N/A	Lowland drain corridor. North end is tag alder/dead ash, partly dammed up by old grade/AT&T line. More Q type to the south.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		15	Pole	6			
Quaking Aspen		15	Pole/Log	8			
Balsam Fir		13	Pole/Sapling	5			
Northern White Cedar		45	Pole/Sap/Log	8	89		
Paper Birch		10	Pole	6			
Yellow Birch		2	Pole	6			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Balsam Fir		Medium	5 - 10 feet	Sapling			
Tag Alder		Medium	5 - 10 feet	Tall Shrub			
24	4130 - Aspen	Poletimber Well	39.1	51	111-140	N/A	This is one of the areas of this age class that was not treated last YOIE to break up aspen age classes. Variable aspen with fair amount of diversity and conifers. Small pocket of supercanopy white pine in valley/drain at west end with more of a hardwood stand underneath.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		13	Pole/Sap/Log	8	51		
Quaking Aspen		60	Pole/Sapling	7	51		
Black Cherry		10	Pole	6			
Paper Birch		5	Pole/Sapling	5			
Sugar Maple		2	Pole	6			
White Pine		5	Log/Pole/XLog	14			
Balsam Fir		5	Pole	6			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		High	>20 feet	Sapling			
Balsam Fir		Low	10 - 20 feet	Sapling			
Ironwood		Low	5 - 10 feet	Sapling			
25	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	7.4	35	1-50	N/A	Variable stand. Big size variation among trees of each species. Probably an opening that has filled in. Little merchantable value at this time.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		20	Pole/Sapling	5			
White Pine		20	Sapling/Pole/Log	5			
Black Cherry		50	Pole/Sap/Log	6	35		
Quaking Aspen		10	Sapling	2			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		Low	5 - 10 feet	Sapling			
White Pine		Low	Variable	Sapling			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	9.0	40	1-50	N/A	Mainly open but filling in with white pine, maple and cherry.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Sapling/Pole	5		Red Maple	
White Pine		40	Sapling/Pole	5		White Pine	
Black Cherry		50	Pole/Sapling	6	40	Density	
						Avg. Height	
						Size	
27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	8.2	47	51-80	N/A	Variable stand. East end is aspen with pockets of dead black ash, generally very wet with sensitive fern and cattails. West end is red maple and black cherry over fir and spruce. Not enough to chase and access would be difficult because it would require crossing wet areas.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		25	Pole/Sapling	5	47	Red Maple	
Balsam Fir		20	Pole/Sapling	6		Balsam Fir	
Northern White Cedar		7	Sapling/Pole	4		Black Spruce	
Red Maple		30	Pole/Log	8	47	Density	
						Avg. Height	
						Size	
28	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.2	80	81-110	N/A	Variable stand. Scattered supercanopy white pine with pole/sap stand underneath but almost no white pine in between those size classes. Could cut aspen, red maple and cherry.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Pole	6		Red Maple	
Quaking Aspen		30	Pole	7	59	White Pine	
White Pine		35	Log/XLog/Pole	14	80	Beech	
Black Cherry		20	Pole	7		Ironwood	
						Density	
						Avg. Height	
						Size	
29	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium	4.9	60	51-80	N/A	Transition ground with some areas of white pine, hemlock and cedar in upland areas and red maple on lower ground.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		25	Log/Pole	12	49	Red Maple	
Quaking Aspen		10	Pole	7	49	White Pine	
Black Cherry		8	Pole	7	49	Density	
White Pine		50	Log/XLog/Pole	14	60	Avg. Height	
Hemlock		5	Pole/Log	8		Size	
Northern White Cedar		2	Pole/Log	8			
30	4117 - Mixed N. Hardwood - Pine	Sapling Medium	12.1	6	1-50	N/A	Cut 2015 as part of 123 Kniss Aspen, 61-065-13-01. Seed tree harvest, leaving some scattered white pine and some small clumps. Cut all trees > 2" except paper birch, balsam fir, and scattered leaf trees (white pine). Average residual BA after sale was ~13 sf/acre. Hard to accurately describe this two-aged stand in Mifi. Should be treated as a sapling stand because I don't think there is enough residual to remove later. Regeneration is more red maple and cherry than aspen. Some supercanopy cherry and red maple too (6-10" dbh).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		20	Log/Pole/XLog	14	59	Beech	
Red Maple		48	Sapling	1	6	Blackberry/Raspberry	
Quaking Aspen		10	Sapling	1	6	Witch Hazel	
Black Cherry		20	Sapling	1		Balsam Fir	
Sugar Maple		2	Sapling	1		Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	21.6	89	51-80	N/A	Wet, small diameter Mixed Q. Some is tamarack over C5. Old cut stumps.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Balsam Fir	10	Pole	6		
		Black Spruce	30	Pole	7	89	
		Northern White Cedar	20	Pole	7	89	
		White Pine	5	Log/Pole/XLog	14		
		Tamarack	30	Pole/Log	8		
		Quaking Aspen	3	Log/Pole	8		
		Paper Birch	2	Pole	6		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Tag Alder	Low	Variable	Tall Shrub		
		Black Spruce	Medium	Variable	Sapling		
		Red Maple	Low	>20 feet	Sapling		
33	4130 - Aspen	Sapling Well	5.1	28	Immature	N/A	Cut 1995. Angling Siding Aspen, 61-045-93-01. Some aspen just reaching pole size.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	20	Sapling	1		
		Quaking Aspen	70	Sapling/Pole	3	28	
		Black Cherry	10	Sapling	2		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Beech	Low	5 - 10 feet	Sapling		
		Red Maple	Low	10 - 20 feet	Sapling		
34	4139 - Aspen, Mixed Deciduous	Sapling Well	9.8	6	Immature	N/A	Cut 2015 as part of Musky Rat Red, 61-004-13-01. Cut all red maple, cherry and aspen > 2" and balsam fir and spruce > 4". Left scattered cherry and aspen trees, especially along the drain at northwest edge.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	15	Sapling	2		
		Quaking Aspen	55	Sapling	1	6	
		Balsam Fir	5	Sapling	3	19	
		Black Cherry	25	Sapling	1	6	
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.3	89	51-80	N/A	Long wet drain. Used to have 20% black ash. Some pole-sized hemlock in understory.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	10	Pole	6		
		Balsam Poplar	20	Pole	6		
		Balsam Fir	20	Pole	6		
		Northern White Cedar	40	Pole/Log	6	89	
		White Pine	5	Log/XLog	14		
		Paper Birch	5	Pole	6		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Tag Alder	High	5 - 10 feet	Tall Shrub		
		Hemlock	Low	>20 feet	Sapling		
36	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.1	35	1-50	N/A	Scattered mix of maple and cherry clump. Poor stocking, parts are G0 and parts more M4/M5 mixed with cherry. Narrow strip between planted pine and private land.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	40	Pole/Sapling	4	35	
		Quaking Aspen	20	Sapling/Pole	3		
		Black Cherry	40	Sapling/Pole	3	35	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>37</b>	42110 - Planted Red Pine	Sawtimber Well	79.6	55	81-110	N/A	Row thinned in 2003 YOY. Marked thinning and cut 2015. Musky Rat Red, 61-004-13. Average BA 100 sf/acre. Also cut all aspen and red maple. Understory is patchy -- some dense red maple and beech and some open areas. A few small A3 pockets.																																									
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<b>39</b>	4112 - Maple, Beech, Cherry Association	Poletimber Medium	9.2	45	1-50	N/A	Scattered maple, cherry, white pine, and fir. Generally poor quality or too small. Some decent single stem red maple, 1-3" dbh. Some semi-open or open areas, especially at north end.																																									
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<b>40</b>	4130 - Aspen	Sapling Well	14.3	6	1-50	N/A	Cut in 2015 as 123 Kniss Aspen, 61-065-13-01. Cut all trees >2" except oak, paper birch and balsam <4".																																									
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<b>41</b>	4130 - Aspen	Poletimber Well	12.8	51	81-110	N/A	Clearcut 1970 with D-7 and KG blades as part of an FTP because there was no merchantable volume at that time. This was not treated last YOY to break up aspen age classes in this compartment. Similar to Stand 97 but less white pine and balsam fir.																																									
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<b>42</b>	4130 - Aspen	Sapling Well	48.3	15	Immature	N/A	Sunset Trail Aspen, 61-030-03-01. Cut ~2006. Boundaries are very hard to pick out on imagery. Cut all trees >2" except pine and green trees. Residual looks much higher along north edge: open grown white pine and balsam fir. 2 rows of red pine left in southeast corner.																																									
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<b>43</b>	122 - Road/Parking Lot	Nonstocked	4.7			No	Sunset Trail.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
44	42110 - Planted Red Pine	Sawtimber Well	1.4	56	111-140	N/A	Thinned for the first time in 2015. Musky Rat Red, 61-004-13. First thinning but it was marked to cut to push this towards a more natural look (vs. planted). Also, cut all aspen and red maple.																															
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45	4139 - Aspen, Mixed Deciduous	Sapling Medium	5.7	15	Immature	N/A	Sunset Trail Aspen, 61-030-03-01. Cut ~2006. Cut all trees >2" except pine and green trees. Aspen regenerated well with some residual balsam and white pine.																															
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46	6229 - Mixed lowland shrub	Nonstocked	12.8	0		No	Wet L0 tag alder drain with scattered maple and dead ash. Very wet drain area.																															
47	4133 - Aspen, Mixed Pine	Sapling Well	6.1	5	1-50	N/A	Cut ~2016. 123 Monster Muskrat. 61-078-13-01. This was leave-tree marked. Left cedar, hemlock, oak and green trees. Also, left trees < 4". Overstory is mostly white pine, 4-12" dbh, 0-40sf/ac. Aspen is less dense than Stand 42.																															
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48	4130 - Aspen	Sapling Well	20.0	6	1-50	N/A	Cut in 2015 as 123 Kniss Aspen, 61-065-13-01. Cut all trees >2" except oak, paper birch and balsam <4".																															
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49	4130 - Aspen	Sapling Well	23.3	6	Immature	N/A	Cut 2015 as part of Musky Rat Red, 61-004-13-01. Cut all red pine, aspen, red maple, cherry and aspen > 2" and balsam fir and spruce > 4". Left scattered red pine, cherry and aspen trees and all sugar maple and oak. Left red pine pockets at 3 corners for retention. Had been a red pine stand with a lot of aspen and maple mixed in. Expect to regenerate to aspen with fair bit of diversity.																															
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50	330 - Low-Density Trees	Nonstocked	1.7	0		No	Small opening with scattered trees. WLD planted fruit trees.																															





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
51	4130 - Aspen	Poletimber Well	11.8	28	Immature	N/A	Cut 1995. Angling Siding Aspen, 61-045-93-01. Just reaching pole size. Good density.																																														
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52	4113 - R.Maple, Conifer	Poletimber Medium	3.4	75	1-50	N/A	Cut ~2016. 123 Monster Muskrat. 61-078-13-01. This was leave-tree marked. Left cedar, hemlock, oak and green trees. Also, left trees < 4". Overstory is single stem red maple and white pine over red maple sprouts and smaller white pine. Mifi makes it hard to describe these kinds of stands. Red maple saplings should be in canopy and age should be younger because I am not sure if we will come back for overstory.																																														
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53	4130 - Aspen	Sapling Well	17.3	28	Immature	N/A	Cut 1995. Angling Siding Aspen, 61-045-93-01. Aspen clumps cut out of the larger maple stand for habitat improvement and diversity. Just reaching pole size with good density. 2-6" diameter QA over 1-2" maple.																																														
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54	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.1	85	111-140	N/A	Diverse stand with some large white pine and nice hemlock. Good thermal cover. Some trees were cut out of the southwest edge with adjacent sale but left all cedar so it goes with the conifer stand. Stand is split by old grade which has dammed up a small L0 to its east. White pine is sparser in the east end. Old cut stumps. Good thermal cover.																																														
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55	6225 - Bog	Nonstocked	45.2			No	Leatherleaf bog with scattered small white pine.																																														
56	4130 - Aspen	Sapling Well	22.3	28	Immature	N/A	Cut 1995. Angling Siding Aspen, 61-045-93-01. Some aspen just reaching pole size.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**57** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 6.6 75 111-140 N/A Nice little pocket of hemlock with some supercanopy white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8		Tag Alder	Low	Variable	Tall Shrub
Balsam Fir	7	Pole	5		Balsam Fir	Low	Variable	Sapling
White Pine	10	Log/Pole/XLog	14	75	White Pine	Low	Variable	Sapling
Hemlock	60	Pole/Log	8	75	Black Spruce	Trace	5 - 10 feet	Sapling
Paper Birch	3	Pole/Log	9		Beech	Trace	5 - 10 feet	Sapling

**58** 330 - Low-Density Trees Nonstocked 1.6 No Very scattered cherry.

**59** 4139 - Aspen, Mixed Deciduous Sapling Well 26.4 5 Immature N/A Cut ~2016. 123 Monster Muskrat. 61-078-13-01. Cut >2" except sugar maple, cedar, hemlock, oak, spruce, balsam.2013: NE end had more soft maple. Left some of the nicer single stems.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	1		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	55	Sapling	1	5	Beech	Low	5 - 10 feet	Sapling
White Pine	2	Pole	8					
Black Cherry	10	Sapling	1					
Sugar Maple	10	Sapling	3	24				
Balsam Fir	3	Pole	5					

**60** 4130 - Aspen Poletimber Well 34.6 47 81-110 N/A Mostly merchantable aspen with good diversity. Some nice sugar maple 1-3" in understory. Rest of the this stand was cut with 2013 YOE. Inclined to try to hold 10 years. I think this was part of FTP W-176-70 to remove maple and cherry and promote aspen after a commercial sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	6		Balsam Fir	Low	>20 feet	Sapling
Quaking Aspen	75	Pole/Log	8	47	Red Maple	Medium	>20 feet	Sapling
Black Cherry	15	Pole/Log	8		Sugar Maple	Medium	>20 feet	Sapling
Sugar Maple	2	Pole	5					
White Pine	3	Pole/Log	8					

**61** 6129 - Mixed Coniferous Lowland Forest Poletimber Well 17.1 72 141-170 N/A Variable stand but generally wet. Spruce at north end. Other parts have more hemlock, red maple and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		Black Spruce	Medium	< 5 feet	Sapling
Black Spruce	35	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	35	Pole	7	72				
White Pine	10	Pole/Log	12					
Hemlock	5	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
<b>62</b>	6120 - Lowland Cedar	Poletimber Medium	15.9	85	51-80	N/A	Variable stand. Most is small, short cedar (C5) with some areas of Q type. Northwest end is even wetter with more tag alder.																																																										
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<b>63</b>	4130 - Aspen	Sapling Well	10.4	16	Immature	N/A	A3 pockets. Clearcut ~2005/2006 as part of Muskrat Road Hardwoods, 61-038-03-01. One of 15 pockets treated this way, but many seem too small to identify anymore. A few aspen poles but mostly still saplings.																																																										
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<b>64</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	9.3	75	51-80	N/A	Variable stand. Canopy mostly relatively short. Some small pockets of only tag alder and some areas of mostly red maple saplings, perhaps what used to have 30% black ash. Stand divided by old railroad grade/AT&T fiberoptic line.																																																										
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<b>65</b>	42200 - Natural White Pine	Sawtimber Medium	17.5	72	1-50	N/A	Treated ~2016 as part of 123 Monster Muskrat, 61-078-13-01. Leave tree marked, leaving all cedar, hemlock, oak, and trees < 4". Treatment was intended as seed tree harvest. Stand is now a two-aged stand with variable overstory density (MC7 over M3). Regeneration is mostly red maple so we will have to wait longer to see if white pine fills in as Kelly intended. Fair amount of blow down among residual canopy. Some areas of wetter ground.																																																										
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<b>66</b>	6122 - Black Spruce	Poletimber Well	7.6	60	81-110	N/A	This was intended to be treated ~2016 as part of 123 Monster Muskrat, 61-078-13-01, but it looks like this part was not cut or has heavier residual than surrounding Stand 65. Hummocky ground with leatherleaf so perhaps this was too wet to cut. (Sale notes do not mention any problems.) South end is ~W7 and north end is more like an S6.																																																										
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67	6122 - Black Spruce	Poletimber Well	17.5	65	51-80	N/A	Mostly spruce with some more diversity at the edges. Used to have 15% black ash. Might be manageable if we ever got a frozen winter.																																																													
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69	42110 - Planted Red Pine	Sawtimber Well	21.4	55	111-140	N/A	Row thinned in 1995. Marked thinning ~ 2015. 123 Monster Muskrat. 61-078-13-01. Fair amount of defect, Also cut all aspen > 3". Average BA ~140 sf/acre. Very heavy understory in most places. It will be hard to maintain as red pine, but understory is also rather diverse, trending toward more wet species at the edges so it probably has decent natural regeneration options eventually. BAs: 100, 170, 110, 170.																																																													
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70	4119 - Mixed Northern Hardwoods	Sawtimber Well	441.9	85	81-110	N/A	Thinned ~2005/2006. Muskrat Road Hardwoods. 61-038-03-01. Left a few unthinned "legacy patches." Some areas were marked but not cut. Generally more sugar maple and better quality at the west end with more red maple in the east end. BA is variable with some areas ready for a thinning and other areas definitely not (average 85 sf/acre). Understory is fairly dense ironwood and some beech. Stand includes some very small A3 inclusions from the harvest that is now Stand 63. They are too small to map. Some scattered overstory white pine and more canopy species, especially east of the snowmobile trail. Stand used to have some nice white ash and there are a few pockets of fairly dense, tall white ash saplings. Trace of yellow birch, paper birch, red oak, and white oak in the canopy. Generally flat to rolling hills with a steep ridge in the south central part of the stand. There is a small vernal pond with some white pine and hemlock around it at the west end. Surprising lack of old skids trails, especially in the west end.  2013: Some could almost use another thin but the majority is not yet ready and some was cut pretty hard so may be waiting 20 years to re-enter the stand.																																																													
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71	4130 - Aspen	Poletimber Well	45.1	46	51-80	N/A	Sprawling, variable stand. Generally A6 over M3. More diversity than other aspen stands in this compartment. Some parts seem older than other aspen of this area. This should probably be priority aspen to be cut. Mostly upland but there are some low spots and a small treed bog, in northwestern lobe. Some small pockets of red pine, especially south of old railroad grade/AT&T fiberoptic line.  Cut 1975. 61-041-74-01.																																																													
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72	6127 - Lowland Pine	Poletimber Well	9.6	75	81-110	N/A	Mostly white pine with a small treed bog in the middle and the east end. Northeast end is spruce. Hummocky ground with leatherleaf. Old, cut white pine stumps.																																																								
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74	310 - Herbaceous Openland	Nonstocked	0.7		Unspecified	No	Small opening. Notes from last YOE said it was an old homesite but I didn't see anything under the snow. Preserving the stand for the record.																																																								
77	330 - Low-Density Trees	Nonstocked	4.3			No	Long narrow valley with scattered trees.																																																								
78	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	32.9	8	1-50	N/A	Treated ~2016 as part of 123 Monster Muskrat, 61-078-13-01. Now a 2-aged stand with residual overstory of white pine on west side and maple on east side. Original prescription called for overstory to be left for the full rotation of the understory. Original prescription was anticipating some conifer regen but that has not developed yet.																																																								
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80	4139 - Aspen, Mixed Deciduous	Sapling Well	6.2	5	1-50	N/A	Treated ~2016 as part of 123 Monster Muskrat, 61-078-13-01. Leave tree marked, leaving all cedar, hemlock, oak, and trees < 4". Treatment was intended as seed tree harvest. Original stand was mixture of white pine and deciduous. White pine was poor quality. Is now scattered overstory white pine poles and sugar maple logs, generally open grown. More maple residual around snowmobile trail.																																																								
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81	4130 - Aspen	Poletimber Well	25.3	37	51-80	N/A	Cut ~ 1984. 61-025-83-01. W62-333, clearcut all species to !.5" DBH. There was more hardwood volume than aspen at that time. This is now a variable stand with a fair amount of hardwood. Aspen is smaller than it would be in a more purely aspen stand; some is just reaching pole size. Also a decent amount of hardwood in the understory. Small white pine pocket at the south end around the snowmobile trail.																																																								
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<b>82</b>	42110 - Planted Red Pine	Sawtimber Well	26.7	58	111-140	N/A	Mifi lost data from 2013. This is 9 different small pockets of red pine scattered across other stands. Largest part is at the intersection of several roads and trails with some open areas and non-red pine areas. Row-thinned in 2006 as Muskrat Road Red Pine, 61-039-03-01. Very thick understory. It will not be practical to maintain this acreage as red pine. BA is variable: 140, 160, 100; average 130 sf/acre. 3-0 seedlings planted in 1966.																																																									
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<b>83</b>	310 - Herbaceous Openland	Nonstocked	0.9	0		No	Small opening.																																																									
<b>84</b>	4130 - Aspen	Poletimber Well	44.5	47	51-80	N/A	Variable stand with some nicer bigtooth and sugar maple. More conifer south of old grade. Understory has some almost-pole-sized red maple.																																																									
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<b>85</b>	4130 - Aspen	Sapling Well	35.3	6	Immature	N/A	Treated ~2016 as part of 123 Monster Muskrat, 61-078-13-01. Cut >2" except sugar maple, cedar, hemlock, oak, spruce, and balsam fir < 4". Mostly small saplings except for a few 2-3" red maple saplings. Multipart stand based on treatment history. Southern part is significantly wetter. Left red pine retention along the snowmobile trail in southern part.																																																									
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<b>86</b>	42110 - Planted Red Pine	Sawtimber Well	13.0	55	141-170	N/A	Row thinned ~2006. Muskrat Road Red Pine. 61-039-03-01. BA: 150, 140, 140; average 143 sf/acre. Variable basal area with a few gaps of younger aspen. Fair amount of defect and porky tops. Some parts don't necessarily need thinning but the defect should be removed. Relatively thin understory. Looks like eastern part wasn't thinned.																																																									
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<b>87</b>	6112 - Lowland Aspen	Sapling Medium	5.0	32	1-50	N/A	Small variable stand -- mostly lowland aspen with some parts of L0/tag alder and poor quality upland aspen at the west end.																																																									
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88	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	11.3	75	51-80	N/A	Lowland C5 in the middle with a more variable upland fringe around it. Red maple is either overstory logs or saplings in the understory but nothing in the middle. Used to have 20% black ash; those areas might be what are 2" red maple saplings now. Evidence of relatively high deer numbers and old white pine stumps.																																											
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89	4130 - Aspen	Poletimber Well	18.6	45	111-140	N/A	This was originally part of Stand 85 (to the northeast) that was not treated in the 2013 YOE. Kelly split stand to break up age classes. This was the part of the stand with smaller diameters. Variable stand with more aspen at the south end and more poor quality hardwood mixed in to the north. Surprisingly hard to separate from slightly younger aspen and hardwood to west.																																											
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92	42110 - Planted Red Pine	Sawtimber Well	21.1	55	51-80	N/A	Separated from the rest of Stand 82 and treated ~2016 as part of 123 Monster Muskrat, 61-078-13-01. This part was prescribed for a row thinning/first thin last YOE but rows are so irregular so it was marked to cut. Sale was also supposed to remove all aspen > 3" but it doesn't look like it did. Basal area is variable but ~80 sf/acre. Heavy deciduous understory and didn't see much aspen regen. It will be hard to maintain this as red pine. (Mifi lost previous data.)																																											
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94	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.8	55	51-80	N/A	This is part of the area that was not treated last YOE to break up aspen age classes in this compartment. Variable stand with more white pine and balsam fir in northeastern and southern parts, especially closer to bog. NE part is more white pine over aspen and balsam fir but it's not enough to be its own stand. Tag alder drain runs north-south just west of white pine area in the north and there is another drain in the south. Some decent single stem red maple in the understory. BA is on the low end (70, 80, 80).																																											
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97	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.9	51	81-110	N/A	Clearcut 1970 with D-7 and KG blades as part of an FTP because there was no merchantable volume at that time. This was not treated last YOE to break up aspen age classes in this compartment. Variable stand with more conifer in south end and northwest corner. Fair amount of borderline merchantable red maple in understory or low canopy. Fair amount of downed aspen already. Average BA ~ 90 sf/ac. Old railroad grade runs ~N-S through stand and old grade/AT&T fiberoptic cable at north end.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>101</b>	4130 - Aspen	Sapling Well	23.2	6	Immature	N/A	Cut in 2015 as 123 Kniss Aspen, 61-065-13-01. Cut all trees >2" except oak, paper birch and balsam <4". Stand numbers have gotten messed up but it looks like Kelly intended to cut the rest of this age class in 2023 YOE (stands 41, 94, 97 + 61120036)	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Sapling	1	6	Red Maple		
Quaking Aspen		60	Sapling	1	6	Medium		
Balsam Fir		5	Sapling	3	16	5 - 10 feet		
Black Cherry		20	Sapling	1	6	Sapling		
White Pine		5	Pole/Log	8				
<b>105</b>	42110 - Planted Red Pine	Sawtimber Well	11.7	55	141-170	N/A	Row-thinned ~2005. Muskrat Road Red Pine. 61-039-03-01. BA: 150, 110, 180, 150; average 148 sf/acre. Moderate white pine in parts of understory and rest is relatively open compared to nearby red pine stands. Scattered individual red pine mortality but I didn't notice any pockets yet.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Black Spruce		5	Pole	6		Red Maple		
White Pine		5	Log/Pole	12		Medium		
Red Pine		85	Log/Pole/Sap	11	55	5 - 10 feet		
Black Cherry		5	Log/Pole	9		Sapling		
						Beech		
						Low		
						5 - 10 feet		
						Sapling		
<b>124</b>	4130 - Aspen	Sapling Well	24.8	6	Immature	N/A	Cut in 2015 as 123 Kniss Aspen, 61-065-13-01. Cut all trees >2" except oak, paper birch and balsam <4". Decent aspen with good diversity. Has some open areas with sparser regen.	
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