



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61130

Entry Year 2021

Acreage: 1,945

County Kalkaska

Management Area: Camp Grayling

**Revision Date:** 2019-06-11

**Stand Examiner:** Katie Armstrong

**Legal Description:**

T26N R5W Sections 21, 22, 23, and 24

**Identified Planning Goals:**

The Camp Grayling management area management area (MA) is the Michigan National Guard training grounds used primarily for military exercises while allowing varying degrees of Department of Natural Resources (DNR) management on certain portions depending on classification of ownership. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs. On these lands military training has precedence over resource management activities. Management in the Camp Grayling MA will emphasize continued balancing the age-class of aspen on suitable sites and regenerating the aging oak resource. Management will strive to sustainably produce various forest products, enhance game and non-game wildlife habitat and protect areas of unique character while accommodating military training. Management activities will be constrained or modified based on military training needs. Expected trends within this 10-year planning period are introduced pests and diseases and the difficulty in regenerating oak.

Most of this compartment is on Military Board Land and is used for military training throughout the year.

**Soil and topography:**

The compartment contains a variety of soils including well-drained to poorly drained: Au Gres sand, Rubicon sand, Grayling sand, Leafriver muck, Tawas-Lupton muck, and Kinross muck. Topography is mostly flat.

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

All of the land in Sections 23 and 24 and most of the land in 22 is administered by the Michigan Department of Military and Veterans Affairs, which has a timber management agreement with the Forest Resources Division. This arrangement is referred to as Military Board Land. Other Military Board Land surrounds this compartment to the north, east and south. Section 24 includes Ranges 8, 9, 10 and 11. There is a private inholding in Section 22 and private land along the Manistee River.

**Unique Natural Features:**

There are multiple Element Occurrences for rare plant and animal species in this compartment.

**Archeological, Historical, and Cultural Features:**

There is a record in Section 22.

**Special Management Designations or Considerations:**

Much of the compartment is part of the Eastern Massasauga Rattlesnake Managed Land (High Conservation Value Area), identified in the Candidate Conservation Agreement. The Manistee River, Portage Creek and tributaries are protected by the Upper Manistee River Natural Rivers Plan.

**Watershed and Fisheries Considerations:**

The Manistee River and Portage Creek flow through Compartment 130. Portage Creek is a tributary of the Manistee River, and both are Designated Trout Streams. Both are also protected by the Manistee River Natural Rivers Designation. Both the Manistee River and Portage Creek host naturally reproducing populations of brook trout and brown trout. For other timber operations near the Manistee River and Portage Creek, Natural Rivers buffers should be adhered to.

**Wildlife Habitat Considerations:**

Maintain conifer cover in various age classes and types. Maintain a component of browse in and near deer winter cover. Maintain oak/aspen types along Portage Creek valley. Oak shelter-wood harvest should consider long-term need for residuals even after final over-story removal phase, especially within 200-300 feet of creek, for mast production and nesting cover for wood ducks and other riparian associates.

Species associated with low, flat mixed conifer plains, swamps, and intervening creeks and draws should be wildlife priorities. Examples include magnolia warbler, winter wren, snowshoe hare, bobcat, and white-tailed deer in winter.

Aspen/oak forests along Portage Creek should be important cover for species such as wood ducks, woodcock, squirrels, and golden-winged warbler.

Compartment 130 is part of the Camp Grayling Management Area of the Regional State Forest Management Plan. Featured wildlife species for this MA include woodcock, eastern massasauga rattlesnake, piliated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, turkey, and deer.

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

No active sand/gravel production is occurring in this area. There appears to be some sand and gravel potential within the compartment, but the water table is shallower here on the outwash plain, which could limit development. The compartment is located south of the Guelph (Niagaran) reef trend and Antrim Shale gas play and north of the Central Basin production. There has been some minor Collingwood gas production in the area associated with the Bear Lake project, but there is currently little interest in further Collingwood development in the state. There is no active mineral leasing within the compartment. Oil and gas potential is considered low at this time. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Much of the compartment is owned by the DMVA (Camp Grayling). Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

### **Vehicle Access:**

There is sufficient vehicular access throughout the compartment.

### **Survey Needs:**

There are no survey needs at this time. Some corners were established and a trespass was resolved since the last inventory.

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

There are no designated recreational facilities in the compartment because it is mostly military board land.

### **Fire Protection:**

The compartment is protected by the Kalkaska DNR office and Camp Grayling fire department. This is within the Zone 5 dispatch area which means that additional units would respond from Grayling, Houghton Lake, and Manton on very high fire danger days. The nearest volunteer fire department is Bear Lake.

### **Additional Compartment Information:**

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

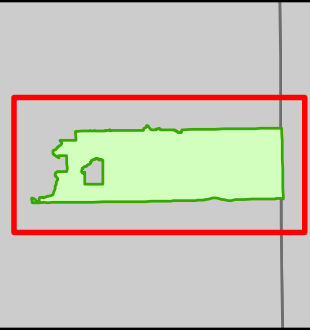
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

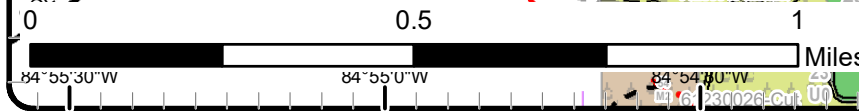
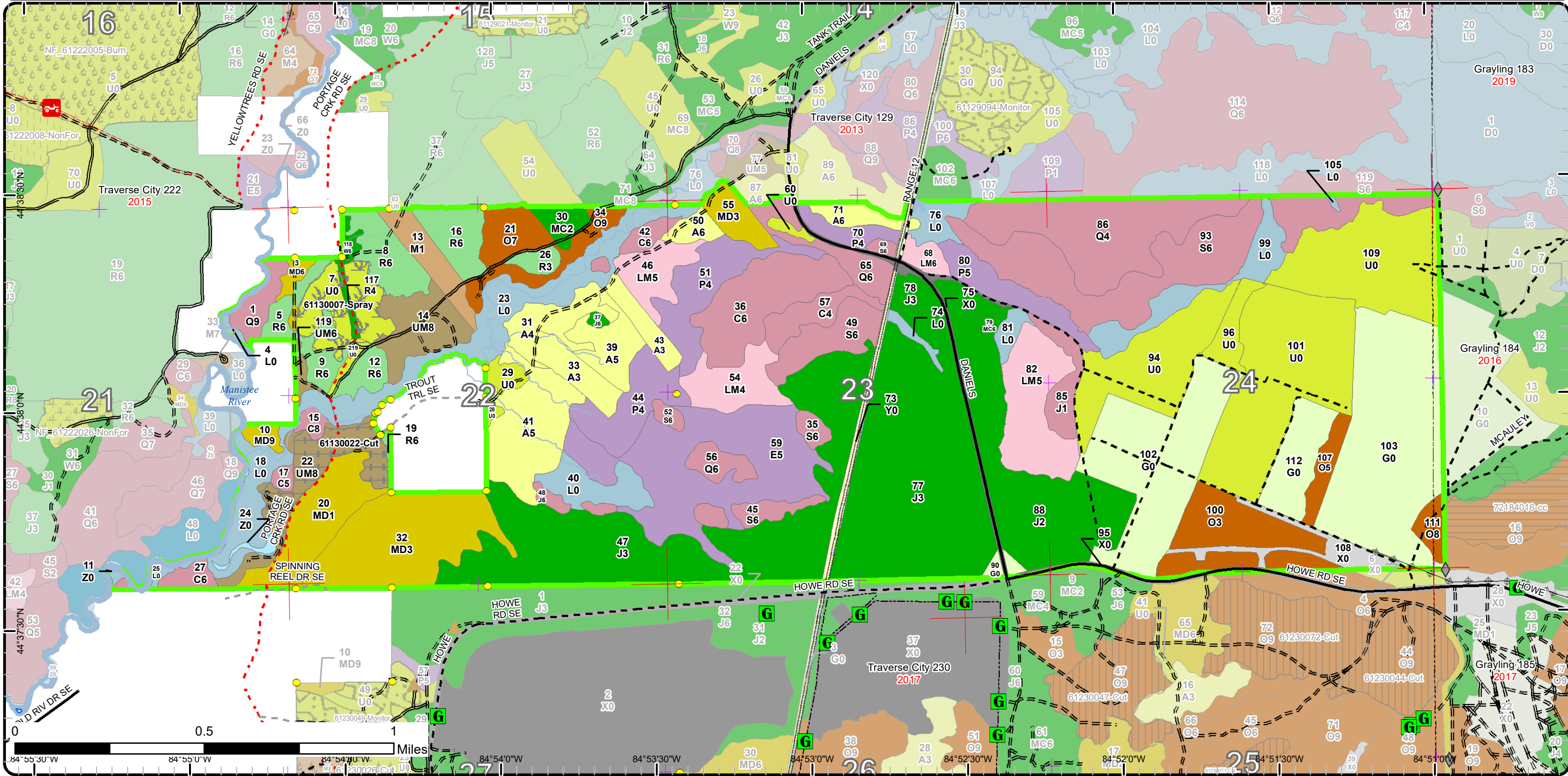
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 130  
 T26N, R05W, 21-24  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Camp Grayling  
 YOE: 2021  
 Acres: 1,945 GIS Calculated  
 Examiner: Katie Armstrong  
 Map Revised: 11/4/2019  
 Map Phase: Post Review



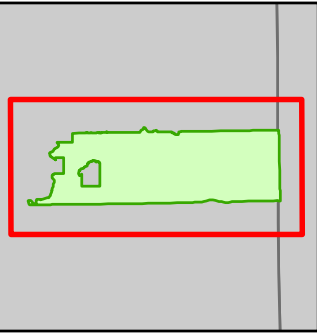
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ORV Routes
- Designated ORV Route
- ▲ Berms
- Gate
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Lock/Levee
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Pesticide
- Harvest, Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil



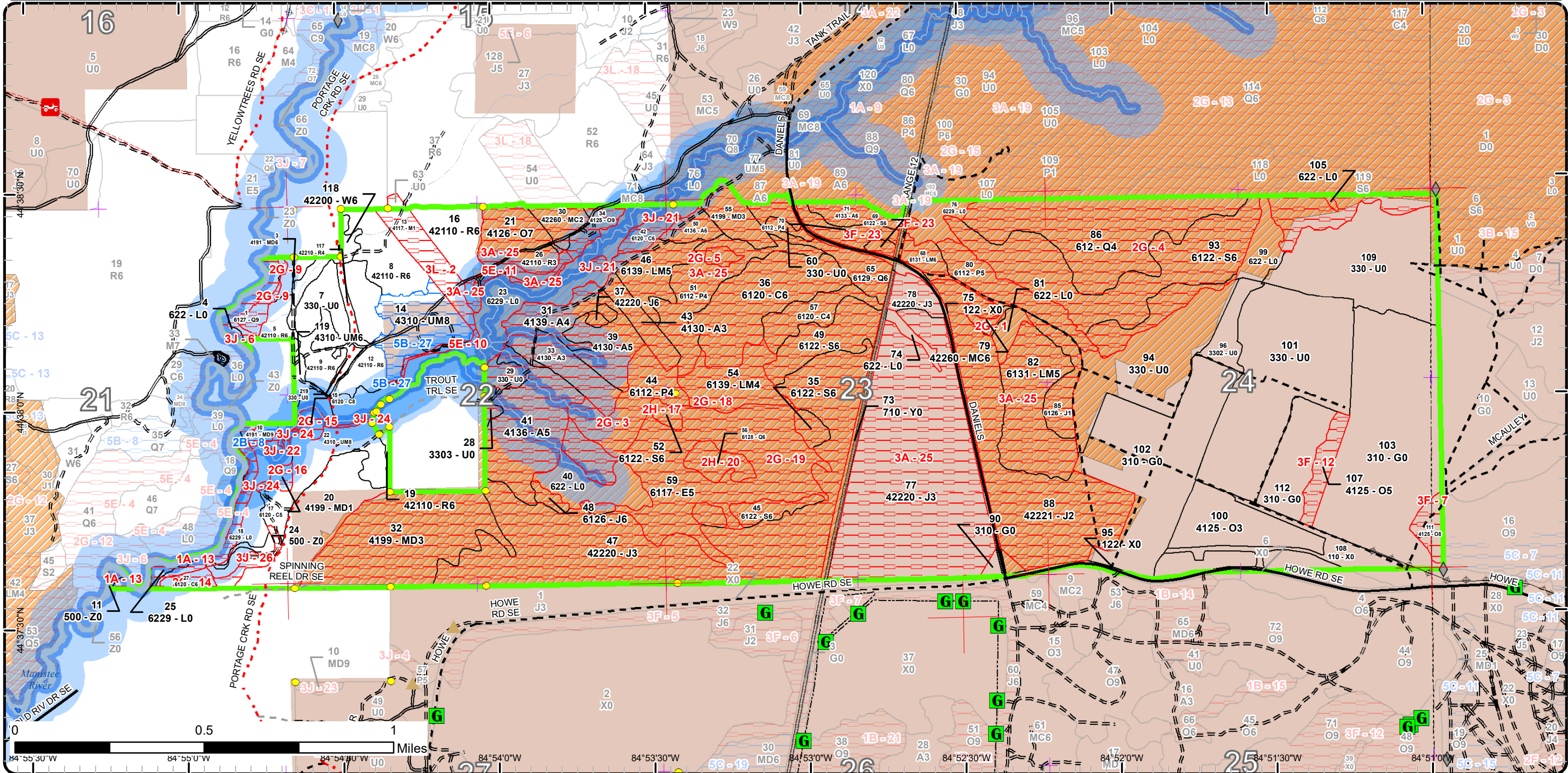


# Special Conservation Areas & Site Conditions Map

Compartment: 130  
 T26N, R05W, 21-24  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Camp Grayling  
 YOE: 2021  
 Acres: 1,945 GIS Calculated  
 Examiner: Katie Armstrong  
 Map Revised: 11/4/2019  
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- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
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- County - Gravel Road
- Private - Dirt / Gravel Road
- ORV Routes
- Designated ORV Route
- Berms
- Gate
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Lock/Levee
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- 1A: Federal/State/Local Law
- 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
- 3F: Military easement / lease
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Natural Rivers Zoning District
- Eastern Massasauga Managed Land
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	22	0	0	77	8	0	0	0	0	0	0	0	0	0	0	0	107
Cedar	0	0	0	0	0	0	0	0	0	18	42	3	0	6	0	0	0	0	69
Herbaceous Openland	202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202
Jack Pine	0	360	0	0	0	7	1	0	4	0	0	0	0	0	0	0	0	0	372
Low-Density Trees	236	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	236
Lowland Aspen/Balsam Poplar	0	0	0	0	0	50	28	0	0	0	0	0	0	0	0	0	0	0	78
Lowland Conifers	0	0	0	0	0	0	15	61	0	8	0	9	0	0	0	0	0	0	93
Lowland Deciduous	0	0	0	0	0	0	0	0	83	0	0	0	0	0	0	0	0	0	83
Lowland Mixed Forest	0	0	0	0	0	72	5	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Shrub	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Lowland Spruce/Fir	0	0	0	0	0	0	2	0	85	13	19	0	0	0	0	0	0	0	119
Mixed Upland Deciduous	0	33	71	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	112
Natural Mixed Pines	0	0	7	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Oak	0	39	0	0	0	0	0	9	6	0	0	0	0	28	0	0	0	0	82
Red Pine	0	5	0	0	0	24	34	2	0	0	0	0	0	0	0	0	0	0	65
Sand, Soil	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	0	0	0	0	3	0	0	29	0	0	0	23	0	0	0	0	55
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>608</b>	<b>437</b>	<b>114</b>	<b>0</b>	<b>0</b>	<b>233</b>	<b>96</b>	<b>79</b>	<b>178</b>	<b>68</b>	<b>61</b>	<b>12</b>	<b>0</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1946</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2021

Acres of Harvest

Compartment 130  
Total Compartment Acres: 1,945

Commercial Harvest - 23  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Upland Mixed Forest		0	0	0	0	0	23	0	0		23
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>0</b>		<b>23</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		23	0	0	0	0	26	0	0	0	49
Next Step		0	0	0	0	0	0	75	0	0	75
	<b>Total</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>124</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:**

7	61130007-Spray	26.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Competition control per TMS specs/methods.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)  <u>Treatments:</u>  <u>Acceptable</u> Planted red pine with scattered oak, white pine.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2018</p>											
22	61130022-Cut	22.8	4310 - Pine, Oak Mix	Sawtimber Medium	83	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Remove most of dead and dying oak overstory and mark other species to leave. Residual BA will be variable (0-30 sf/acre). Protect streams with appropriate buffers.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, white pine, oak, red pine, cherry, jack pine.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											

**Total Treatment Acreage Proposed: 48.9**



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 130  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				2B	5B	1A	2G	2H	3A	3F	3J	3L	5E	
106	0	0		106	Aspen						98	8				
70	0	0		69	Cedar			2	9		52		6			
201	201	0		0	Herbaceous Openland											
372	0	0		372	Jack Pine				0		372					
236	228	0		8	Low-Density Trees						8					
78	0	0		78	Lowland Aspen/Balsam Poplar				26		43	8				
94	0	0		94	Lowland Conifers				65	8	15		6			
83	0	0		83	Lowland Deciduous				83							
77	0	0		77	Lowland Mixed Forest				20		57					
125	101	0		24	Lowland Shrub			9	12				1			2
119	0	0		119	Lowland Spruce/Fir				82	3	32	2				
111	37	2		73	Mixed Upland Deciduous	2		1			71		1			
9	1	0		9	Natural Mixed Pines				2		7					0
14	0	0		14	Northern Hardwood										14	
81	39	0		42	Oak			0			23	15				5
65	61	0		5	Red Pine						5					0
11	11	0		0	Sand, Soil											
55	26	22		7	Upland Mixed Forest		22						6			1
27	27	0		0	Urban											
6	6	0		1	Water			1								
3	3	0		0	White Pine											
1,945	741	24		1,180	Total Forested Acres	2	22	13	300	11	783	32	20	14		7
	38%	1%		61%	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)	2	3F: Military easement / lease	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too wet to manage and Military Board Land.							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 130  
Year of Entry: 2021

2	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> EMR research project.							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	156	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manistee River natural rivers buffer.							
7	<b>Unavailable</b>	<b>3F: Military easement / lease</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too close to ranges.							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 130  
Year of Entry: 2021

8	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3F: Military easement / lease</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manistee River Natural Buffer							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 130  
Year of Entry: 2021

14	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 130  
Year of Entry: 2021

19	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	83	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	6	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Unavailable</b>	3F: Military easement / lease	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> EMR habitat							
24	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Katie Armstrong : Examiner

Compartment: 130  
Year of Entry: 2021

25	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	783	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> EMR habitat.							
26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	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.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
1	6127 - Lowland Pine	Sawtimber Well	9.3	100	111-140	N/A	2 areas of Q type separated by a vein of tag alder. Below the main bluff along the Manistee River. Has a ridge leading to the river. Rollaway? Heavily used by deer.																															
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3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.2	60	81-110	N/A	Split by overhead powerline.																															
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4	622 - Lowland Shrub	Nonstocked	1.3	0		No																																
5	42110 - Planted Red Pine	Poletimber Well	7.6	46	111-140	N/A	Planted red pine that was 3rd row thinned as part of Red Wing Red Pine in 2012, 61-043-11-01. Oak is dead or dying. Pocket of popple near blue line.																															
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7	330 - Low-Density Trees	Nonstocked	22.4	0	Unspecified	4211 - Planted Red Pine	Cut 2015-16 as Pemberthy Crossing Mix, 61-648-11-01. Planted spring 2016. FTP C62-873. Left scattered overstory oak, red pine, white pine. Oak was in very bad shape from oak decline. regen survey 10/24/2018: 20% mortality. 44% FTG. Recommend release. Primary target would be aspen competition with lesser amounts of RM, BC and oak. Aspen is thick in places, especially the SW corner and edges, 5-10' tall and RM 4-5' tall and oak seedlings. Some shallow trenches and skips around stumps. Hard to tell if trees died or were never planted.																															
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8	42110 - Planted Red Pine	Poletimber Well	17.8	53	111-140	N/A	Row thinned in Red Wing RP, 61-043-11-01, cut summer 2012. Rows were a bit squirrely but producer managed to find them. Diameters are still a bit small for thinning. Generally little to no understory. Oak in canopy is mostly dead due to oak decline.																															
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11	500 - Water	Nonstocked	4.7	0		No	Manistee River.																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
<b>12</b>	42110 - Planted Red Pine	Poletimber Well	7.8	48	111-140	N/A	Row thinned in Red Wing RP, 61-043-11-01, cut summer 2012. Rows were a bit squirrely but producer managed to find them. Red pine diameters are still a little small for thinning. Generally little to no understory. Oak in canopy is mostly dead due to oak decline. BAs = 130, 140.																													
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<b>13</b>	4117 - Mixed N. Hardwood - Pine	Sapling Poor	14.1	13	Immature	N/A	Rattlesnake experimental cut. Sale #023-06.																													
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<b>14</b>	4310 - Pine, Oak Mix	Sawtimber Medium	22.8	120	1-50	N/A	Cut 2015-16 as Pemberthy Crossing Mix, 61-648-11-01. Planted red pine spring 2016. FTP C62-873. Good seedling survival. Too much overstory to spray but it looks pretty good. Small camping area along Portage Creek. Area of concern noted 2019.																													
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<b>15</b>	6120 - Lowland Cedar	Sawtimber Medium	3.0	103	51-80	N/A	Quite a bit of blow down making stocking patchy. Lots of deer activity.																													
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<b>17</b>	6120 - Lowland Cedar	Poletimber Medium	2.2	93	51-80	N/A	Variable stocking, heavy deer use. There is a drainage running through the stand.																													
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<b>18</b>	6229 - Mixed lowland shrub	Nonstocked	23.2	0		No	Portage Creek corridor.																													
<b>19</b>	42110 - Planted Red Pine	Poletimber Well	1.2	53	141-170	N/A	Planted red pine sliver that must have been planted along with the private ownership. Trees are 3-4 sticks tall.																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
20	4199 - Other Mixed Upland Deciduous	Sapling Poor	32.6	6	Immature	N/A	Scattered pole sized pine and oak scattered and was left for seed after the salvage harvests (Portage Creek Burn 61-653-10-01 and Portage Creek Oak Salvage 61-645-14-01). Site is in rough shape, lots of slash and high stumps. Deer are doing quite a bit of damage on the regen. Stocking is patchy.																																									
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21	4126 - White, Black, N. Pin Oak	Sawtimber Poor	13.7	120	1-50	N/A	Cut 2015-16 as Pemberthy Crossing Mix, 61-648-11-01. Planted red pine around oak in 2016. FTPC62-873. Planned to spray fall 2018 but this stand is in EMR dedicated habitat area and broadcast spraying is not allowed under CCAA. Will have to accept mixed stand. Residual oak is dying. Patchy canopy.																																									
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22	4310 - Pine, Oak Mix	Sawtimber Medium	29.3	83	51-80	N/A	Stand is a oak/pine mix. Oak is poor quality and some is dead or dying. Stocking is variable. Looks like the north part of the stand had the aspen removed out of it when st 20 was cut. There is still some pine and oak over story in this area.																																									
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23	6229 - Mixed lowland shrub	Nonstocked	44.5	0		No	Portage Creek corridor. Mostly tag alder with some trees along the edge.																																									
24	500 - Water	Nonstocked	1.7	0		No																																										
25	6229 - Mixed lowland shrub	Nonstocked	2.5	0	Unspecified	No	Tag alder along the Manistee River.																																									
26	42110 - Planted Red Pine	Sapling Well	4.7	5	1-50	N/A	Cut 2015-16 as Pemberthy Crossing Mix, 61-648-11-01. Red pine planted around oak in spring 2016. FTP C62-873. Planned to spray fall 2018 but this stand is in EMR dedicated habitat area and broadcast spraying is not allowed under CCAA. Will have to accept mixed stand.																																									
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27	6120 - Lowland Cedar	Poletimber Well	6.4	120	111-140	N/A	Scattered super sized white pine over dense cedar stand. Heavy deer use.																																									
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28	3303 - Mixed Low Density Trees	Nonstocked	1.5	0		No																										
29	330 - Low-Density Trees	Nonstocked	4.6			No																										
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30	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	7.0	13	Immature	N/A	Rattlesnake Project Sale, #023-06-02.																									
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31	4139 - Aspen, Mixed Deciduous	Poletimber Poor	16.6	45	1-50	N/A	Low density. Poor quality. Area of concern noted 2019.																									
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32	4199 - Other Mixed Upland Deciduous	Sapling Well	60.0	19	Immature	N/A	Stand cut in 2000 'Pemberthy Crossing' 61-165-98-01. West side seems to be more of a cherry and oak mix, east side turns more to aspen with a bit of jack pine. I think part of the Range 9 fire impacted this stand in 2010. Trees are about 10' tall																									
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33	4130 - Aspen	Sapling Well	12.5	13	Immature	N/A	Rattlesnake Project sale #023-06. Trees are about 10-15' tall. West end has patchy stocking.																									
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34	4125 - Black, N. Pin Oak	Sawtimber Well	13.5	120	81-110	N/A	Along Portage Creek.																									
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<b>35</b>	6122 - Black Spruce	Poletimber Well	4.0	83	51-80	N/A	Nice pocket of spruce, 4-5 sticks tall. West 1/2 of the stand turns pretty wet and timber is a bit more sparse.																																														
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<b>36</b>	6120 - Lowland Cedar	Poletimber Well	39.7	90	111-140	N/A	Mostly cedar but shorter and sparser than stands closer to river. Does not appear to be used by deer. Some small canopy gaps.																																														
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<b>37</b>	42220 - Natural Jack Pine	Poletimber Well	1.1	58	81-110	N/A																																															
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<b>39</b>	4130 - Aspen	Poletimber Medium	15.9	43	51-80	N/A	A mix of upland and lowland (east end). Mostly short aspen, some taller clones in the east end, medium-poor quality. Ground looks operable.																																														
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<b>40</b>	622 - Lowland Shrub	Nonstocked	15.7	0		No	Tag alder, some patches of red maple and aspen.																																														
<b>41</b>	4136 - Aspen, Mixed Conifer	Poletimber Medium	38.5	45	51-80	N/A	Stand is a mix of upland (north end) and lowland (south end). Mostly 4 stick aspen, medium-poor quality. There is a couple of tag alder drains that feed into portage creek that run through the stand.																																														
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<b>42</b>	6120 - Lowland Cedar	Poletimber Well	6.0	80	81-110	N/A	Portage Creek corridor. Down a short bluff from adjacent upland. Appears to have a few ephemeral drainages leading into the creek. Deer use for thermal cover.																																														
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<b>43</b>	4130 - Aspen	Sapling Well	9.3	13	Immature	N/A	Rattlesnake Project Sale, #23-06-02.																																													
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<b>44</b>	6112 - Lowland Aspen	Poletimber Poor	23.8	43	1-50	N/A	Darn near L0. Scattered pockets of aspen and BAM. Heavy tag alder understory.																																													
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<b>45</b>	6122 - Black Spruce	Poletimber Well	9.1	80	Unspecified	N/A	4-5 stick spruce. JP falling out of stand. Nice quality. Looks operable. Two pockets separated by a drain.																																													
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<b>46</b>	6139 - Mixed Lowland Forest	Poletimber Medium	16.0	45	51-80	N/A	Extremely variable. Poor quality. Must have some lowland but it's hard to tell with snow.																																													
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<b>47</b>	42220 - Natural Jack Pine	Sapling Well	136.4	8	Immature	N/A	Range 9 fire salvage. Dense stocking. Trees are 5-8' tall. Looks upland but has leatherleaf.																																													
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<b>48</b>	6126 - Lowland Jack Pine	Poletimber Well	3.9	73	81-110	N/A	A mix of lowland jack pine and black spruce. Looks like it was left as retention from the Range 9 fire Salvage.																																													
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<b>49</b>	6122 - Black Spruce	Poletimber Well	19.2	90	81-110	N/A	Nice spruce with clumps of white pine. Dozer line from Range 9 fire bisects this stand so south half is charred. Understory is a little more sparse but canopy looks relatively unaffected by fire.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
50	4136 - Aspen, Mixed Conifer	Poletimber Well	5.7	45	Unspecified	N/A	Mediocre to poor quality timber.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		55	Pole/Sap/Log	8	45	Red Maple	Low	10 - 20 feet	Sapling
Black Spruce		15	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack		10	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry		10	Sapling	2		White Pine	Low	10 - 20 feet	Sapling
						Black Spruce	Trace	< 5 feet	Sapling
51	6112 - Lowland Aspen	Poletimber Poor	28.0	50		N/A	Extremely variable with some open areas. Heavy browse on dogwood.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
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Balsam Poplar		10	Pole/Log	8		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
						Common Cattail	Trace	Unspecified	Non-Wood
52	6122 - Black Spruce	Poletimber Well	2.7	73	81-110	N/A	Nice pocket of spruce, 4-6 sticks tall and is well stocked.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		90	Pole	8	73	Black Spruce	Low	Variable	Sapling
Red Maple		10	Pole	9					
54	6139 - Mixed Lowland Forest	Poletimber Poor	20.0	43	1-50	N/A	Really wet ground and sparse timber. Some areas are L0/tag alder. South boundary is plow line from Range 9 Fire.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		15	Pole/Sapling	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce		25	Pole/Sapling	6					
Red Maple		25	Pole/Sapling	6					
Balsam Poplar		25	Pole/Sapling	6	43				
55	4199 - Other Mixed Upland Deciduous	Sapling Well	10.9	13	Immature	N/A	Rattlesnake Project Sale, #23-06-02. Mediocre timber. Canopy closure at lower end of range.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		7	Sapling	1		Black Spruce	Trace	< 5 feet	Sapling
Quaking Aspen		35	Sapling	1	13				
Black Cherry		40	Sapling	1	13				
Black/Red (Hybrid) Oak		10	Sapling	1					
56	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.9	80		N/A	A bit of an upland ridge above the south end. Scattered large WP. N part of stand is more sparse and wet.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		40	Pole	8	80	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple		40	Log/Pole	10		Black Spruce	Low	< 5 feet	Sapling
White Pine		20	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>57</b>	6120 - Lowland Cedar	Poletimber Poor	12.4	80	1-50	N/A	Wet ground and sparsely forested.																																					
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<b>59</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	83.4	73	1-50	N/A	Numerous drainages. Timber is very patchy several spots of L0/tag alder. Wet ground.																																					
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<b>60</b>	330 - Low-Density Trees	Nonstocked	2.0	0	Immature	No	Opening that is filling in with cherry, oak, and jack pine. Slight rise compared to adjacent stands. Leatherleaf at the edge.																																					
<b>65</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.9	50	81-110	N/A	Variable stand with hydrology affected by road and pipeline. Vein of tag alder runs through middle.																																					
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<b>68</b>	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	5.3	50	81-110	N/A	Variable stand but generally wet ground with more maple in southeast part and more conifer northwest.																																					
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<b>69</b>	6122 - Black Spruce	Poletimber Well	1.7	50	81-110	N/A	Hummocky ground with standing water. Mostly spruce and white pine with understory of red maple.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>70</b>	6112 - Lowland Aspen	Poletimber Poor	7.9	40	1-50	N/A	Mostly tag alder with scattered canopy aspen
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		70	Pole/Sapling	6	40	Tag Alder	
Red Maple		15	Pole	6		Red Maple	
White Pine		10	XLog/Log	20		White Pine	
						Black Spruce	
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							Size
						High	5 - 10 feet
						Low	10 - 20 feet
						Trace	5 - 10 feet
						Trace	5 - 10 feet
							Tall Shrub
							Sapling
							Sapling
							Sapling
<b>71</b>	4133 - Aspen, Mixed Pine	Poletimber Well	7.9	50	81-110	N/A	Variable. Slight ridge compared to adjacent stands but still has some wet areas. Parts have fairly dense understory of tall red maple saplings.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		15	XLog/Log	18	90	Leatherleaf	
Quaking Aspen		40	Pole	6	50	Red Maple	
Red Maple		22	Pole	6		White Pine	
						Density	Avg. Height
						Medium	5 - 10 feet
						Medium	>20 feet
						Low	Variable
							Tall Shrub
							Sapling
							Sapling
<b>73</b>	710 - Sand, Soil	Nonstocked	10.6			No	Pipeline
<b>74</b>	622 - Lowland Shrub	Nonstocked	2.7			No	
<b>75</b>	122 - Road/Parking Lot	Nonstocked	9.5			No	Daniels Road.
<b>76</b>	6229 - Mixed lowland shrub	Nonstocked	8.6			No	Mainly tag alder. Open water in areas. standing dead trees.
<b>77</b>	42220 - Natural Jack Pine	Sapling Well	133.7	8	Immature	N/A	Regeneration from the Range 9 Fire, May 19, 2010. Sale #61-663-10-01. Jack pine is about 3-4 feet tall.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		85	Sapling	1	8		
Red Maple		15	Sapling	1			
<b>78</b>	42220 - Natural Jack Pine	Sapling Well	7.1	41	111-140	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		75	Sapling/Pole	4	41		
Black Spruce		10	Pole/Sapling	5			
White Pine		10	Pole/Sapling	6			
<b>79</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.5	41	51-80	N/A	Part of 62 that was not cut. Slight upland.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		50	Log/Pole	10	41	Black Cherry	
White Pine		10	Log/Pole	12		Density	
Quaking Aspen		20	Log/Pole	10		Avg. Height	
Red Maple		20	Pole/Log	8		Size	
						Low	10 - 20 feet
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
<b>80</b>	6112 - Lowland Aspen	Poletimber Medium	17.7	40	Unspecified	N/A	Mostly wet. Small patch of spruce and jack pine along road in south end.																												
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<b>81</b>	622 - Lowland Shrub	Nonstocked	4.5			No																													
<b>82</b>	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	36.1	40	81-110	N/A	Spruce pocket in NE corner. Sizeable open areas with tag alder. Part was cut in 1989, Range 11 Sale, 61-016-88-01.																												
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<b>85</b>	6126 - Lowland Jack Pine	Sapling Poor	11.5	7	Immature	N/A	Burned in Range 9 or 10 fire (2010 or 2012) but not salvaged. Mostly young jack pine and spruce with lots of standing dead timber.																												
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<b>86</b>	612 - Lowland Coniferous Forest	Poletimber Poor	61.4	60	Unspecified	N/A	Mostly dense tag alder with some scattered trees such as cedar, tamarack, and black spruce. Barely 25% canopy.																												
<b>88</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	78.1	8	Immature	N/A	Cut 2016. Range 9 Fire Salvage Redo, 61-610-16-01. More-than-usual amount of standing dead trees. Seems upland but there is leatherleaf.																												
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<b>90</b>	310 - Herbaceous Openland	Nonstocked	2.7	0		No	Camp Grayling maintains this as opening for visibility at road intersection.																												
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<b>93</b>	6122 - Black Spruce	Poletimber Well	82.2	74	Unspecified	N/A																													
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<b>94</b>	330 - Low-Density Trees	Nonstocked	46.9	0	Unspecified	4222 - Natural Jack Pine	Cut and chipped 2016. Range 9 Fire Salvage, 61-610-16-01. Military may choose to maintain as open due to proximity to ranges.																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																							
95	122 - Road/Parking Lot	Nonstocked	4.7	0	Unspecified	No	Howe Road.																							
96	3302 - Low Density Conifer Trees	Nonstocked	9.3		Unspecified	No	Cut and chipped 2016. Range 9 Fire Salvage, 61-610-16-01. Military may choose to maintain as open due to proximity to ranges. This area is downrange from Range 10.																							
99	622 - Lowland Shrub	Nonstocked	21.3		Unspecified	No																								
100	4125 - Black, N. Pin Oak	Sapling Well	39.2	7	1-50	N/A	Howe 9 & 10 Jack, 61-654-10-01, cut & chipped Dec 2011-Jan 2012. Previous stand was a lot of jack pine but there is good oak regeneration here. Most of this is behind a fence.																							
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101	330 - Low-Density Trees	Nonstocked	85.0	0	Unspecified	4222 - Natural Jack Pine	Cut and chipped 2016. Range 9 Fire Salvage, 61-610-16-01. Military may choose to maintain as open due to proximity to ranges.																							
102	310 - Herbaceous Openland	Nonstocked	73.7			No	Ranges 10 and 11.																							
103	310 - Herbaceous Openland	Nonstocked	103.1			No	Range 8.																							
105	622 - Lowland Shrub	Nonstocked	0.5			No																								
107	4125 - Black, N. Pin Oak	Poletimber Medium	8.6	60	51-80	N/A	Strip of oak between 2 ranges. Stand is behind a fence.																							
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108	110 - Low Intensity Urban	Nonstocked	13.1			No	Roads and maintenance buildings south of ranges 8 & 9.																							
109	330 - Low-Density Trees	Nonstocked	60.8	0	Unspecified	4222 - Natural Jack Pine	Cut and chipped 2016. Range 9 Fire Salvage, 61-610-16-01. Military may choose to maintain as open due to proximity to ranges.																							
111	4125 - Black, N. Pin Oak	Sawtimber Medium	6.4	70	51-80	N/A	Behind a fence adjacent to range.																							
112	310 - Herbaceous Openland	Nonstocked	21.9		Unspecified	No	Range 9.																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>117</b>	42210 - Natural Red Pine	Poletimber Poor	2.4	60	1-50	N/A	This was originally retention from clearcut on stand 7. Left scattered overstory oak, red pine, white pine. Oak was in very bad shape from oak decline. Looks like some pine may have gotten planted within this road corridor.																																											
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<b>118</b>	42200 - Natural White Pine	Poletimber Well	2.9	60	81-110	N/A	Part of Stand 7 that did not get treated. Some fingers of planted red pine from stand 8.																																											
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<b>119</b>	4310 - Pine, Oak Mix	Poletimber Well	3.0	50	51-80	N/A	scrappy timber																																											
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<b>219</b>	330 - Low-Density Trees	Nonstocked	3.2	0	Unspecified	No	Portage Creek corridor.																																											