

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61231

Entry Year: 2027

Acreage: 1,911

County: Kalkaska

Management Area: Camp Grayling

Stand Examiner: Steve Crigier

Legal Description:

T25N R5W, Sections 1, 2 & 3

Identified Planning Goals:

Management goals within the Camp Grayling Management Area and this compartment must be meshed with the needs of the military. Summer troop training areas are most useful when dense forest canopy cover is in place, so the goal shall be to retain a high percentage of timber stands with this condition. Some forest canopy covers will be reduced by shelterwood and other partial cuttings. It is equally important, to have adequate understory and ground covers for military maneuver areas. In the end, a variety of stand conditions will be in place.

Soil and topography:

Excessively drained, poor sandy soils dominate the compartment. The main soil type is Roselawn sand. The terrain ranges from slightly rolling to hilly.

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

The entire land base in this compartment is state owned with the administrative authority being the Department of Military and Veterans Affairs. These lands are commonly referred to as Military Board Lands. FRD manages the timber upon these lands with guidance and direction from the staff of the Michigan National Guard at Camp Grayling. Military troop training is the primary activity in this area. No fenced ranges or live ammunition exercises occur in this area. A mortar range is located just east of this compartment in Crawford County. Some military bivouac areas are located in the compartment and these areas are used annually. In 2001, the military had a trail developed for tracked vehicles and a portion of that route is located near the south, east and west edges of this compartment. This trail, commonly referred to as the tank trail, is no longer in use because there are no tanks in the State of Michigan anymore. A cement refueling pad is located in the very southwest corner of Section 3 (stand 62). Military Board lands are open to the public for recreational use. Public use of the area includes snowmobiling, hunting and mushroom/berry picking. The adjacent lands around the perimeter of this compartment are all state owned.

Unique Natural Features:

No endangered or threatened species of plants or animals are known to exist in the compartment.

Archeological, Historical, and Cultural Features:

This area contains several old railroad grades from the turn of the century logging era. It is the intent of the Military to maintain the integrity of these old grades as they exist today. No known historical or archeological sites are listed for this area.

Special Management Designations or Considerations:

This compartment is entirely under the jurisdiction of the Department of Military and Veteran Affairs.

Watershed and Fisheries Considerations:

There is no water within the compartment.

Wildlife Habitat Considerations:

The north half of the compartment consists of an ice contact ridge (LTA 3111). Topography is generally steep and irregular. Soil types are excessively drained loamy sand. Oak is a major component within this compartment. Aspen stands are also present. The south half of the compartment consists of a broad, flat outwash plain (LTA 5111). Topography is generally level with excessively drained sands. Oak stands and aspen stands again dominate this portion of the compartment. There are also shrubland and one jack pine stand.

Acorns are an important food source for many different wildlife species. Wildlife considerations for oak stands may include leaving a scattering of mast-producing trees, use of harvest methods to perpetuate oak within the community, species diversification within each stand, and leaving of den/nest trees (by sale specification). This will insure biodiversity of wildlife species within these stands. Examples of wildlife found here include fox & gray squirrel, scarlet tanager, spotted

salamander, and garter snake. Aspen stands are an important habitat type for ruffed grouse and white-tailed deer. Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Clearcutting helps facilitate age class diversification of aspen by mimicking the necessary disturbances vital for regeneration. The creation of CWD trees for drumming logs and maintaining berry-producing shrubs is also desirable. This compartment is Military Board Land so the creation CWD will be subject to the Military's approval. Where applicable, the shrublands should be maintained by handfelling or by prescribed burning. Shrublands within this LTA type have a history of wildfire, and many species (for example, hill's thistle & little bluestem) respond positively to prescribed burning. The berry-producing shrubs provide an important food source. Examples of wildlife species found here include bluebird, badger, and green snake.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Marshall Sandstone. The Michigan is quarried for gypsum and the Marshall has been used as a building stone in other areas of the state. No active gravel pits are located in the area, but there is potential on the uplands. This area is located just north of Garfield 8 and Beaver Creek fields, which both produce oil from multiple zones within the Devonian Detroit River Group and gas from the Ordovician PdC. There are active leases in the SW of Section 3 that are held by production by the Garfield 8 Field, but the majority of the compartment is classified as non-leasable.

Vehicle Access:

Numerous trails and roads are found in the compartment. The road system is extensive and will remain as is since the roads are needed for modern day military training. Roads developed during timber harvests will be closed once the harvest is complete unless the military determines that the road is one that they would like to keep open.

Survey Needs:

No additional corners are necessary.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within this compartment. It is common to find deer camps in this compartment in the Fall. Snowmobilers use the pipeline corridor during the winter. Mushroom hunters and berry pickers use the compartment seasonally. Since the military uses the area for training during the summer, the recreational camping opportunities are limited. (T.M.N. 12/10/14)

Fire Protection:

This compartment is located in a relatively remote part of Kalkaska County that is primarily oak forest. The main forest fire difficulty will be the lengthy response time for initial attack units and the lack of a nearby water supply. It is 27 miles from the Kalkaska Office and 16 miles from the standby station at the Garfield Township Fire Hall. Roads are good for access to the southern part of the compartment. Fires occurring in the north half of the compartment will be much more difficult to access because the North/South roads are generally just two-track trails that often pass through some hilly terrain. Fire control crews will need to assess the topography and insert fire control lines accordingly. There are only small amounts of volatile pine fuels and those are located in the very northwest corner of the compartment so this reduces the chances of a catastrophic fire occurrence. Fires in open grass areas and fires burning up the hillsides may consume a fair amount of area before they can be controlled. Since slash is required to be removed from timber sales that are upon Military Board land, cut-over areas will not contain the usual fuel loads following harvests and may actually act as fuel breaks.

Additional Compartment Information:

Timber harvests upon Military Board lands must be done in such a manner that slash is removed from the sale area, stumps must be cut as low as possible and equipment/forest products must be removed from the sale area during the summer. Logging operations are generally limited during the period of May 1 - October 1. The Tank Trail, which is no longer used by the military, will no longer have restrictions on cutting along the trail. (There use to be restrictions on cutting along the trail to limit regeneration.)

The following reports from the Inventory are attached:

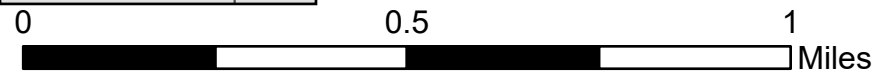
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

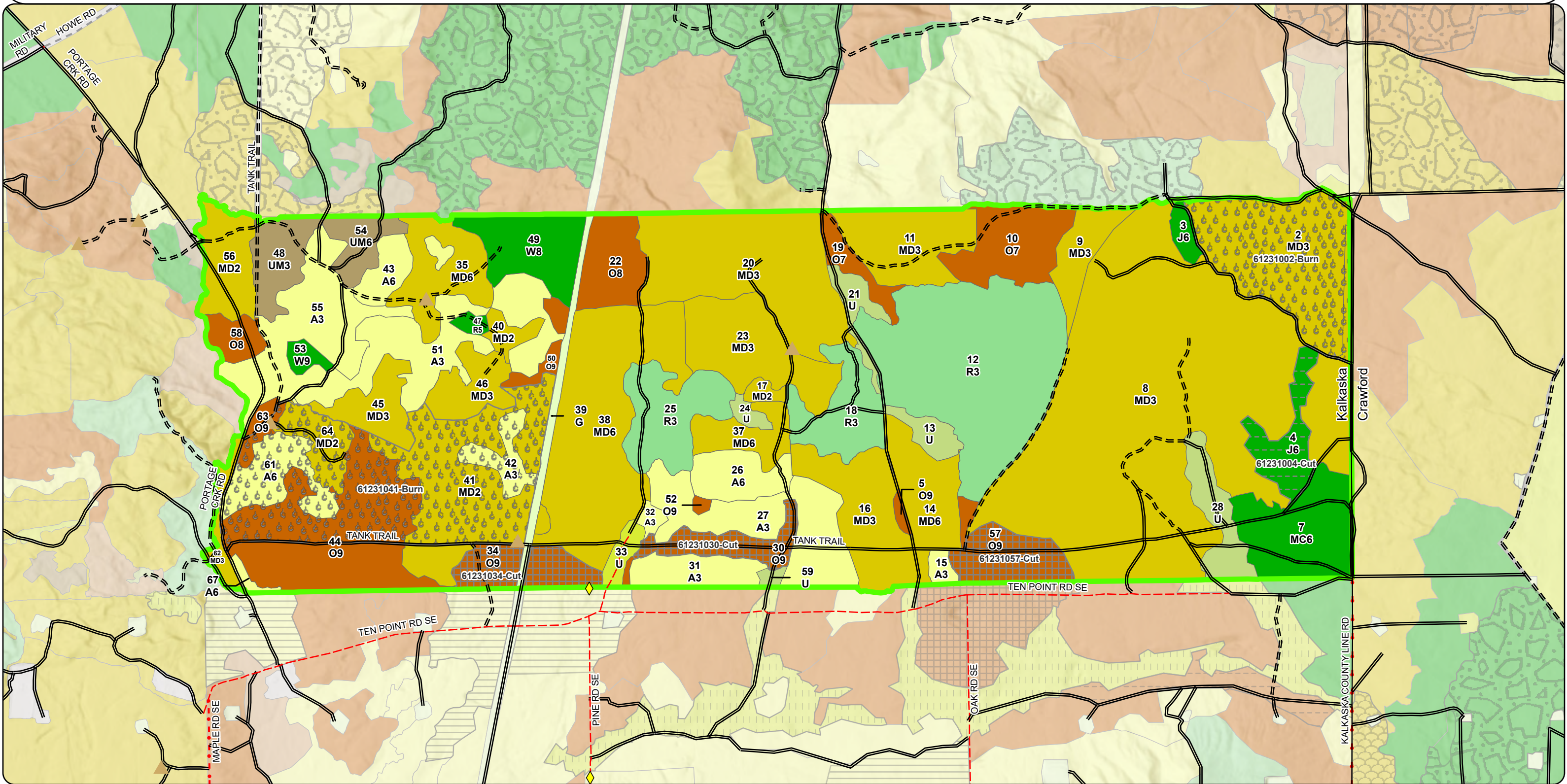
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 61231
T25N R05W 01-03
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Camp Grayling
YOE: 2027
Acres: 1,911 GIS Calculated
Examiner: Steve Crigier
Date Exported: 1/12/2026
Map Phase: Post Maps



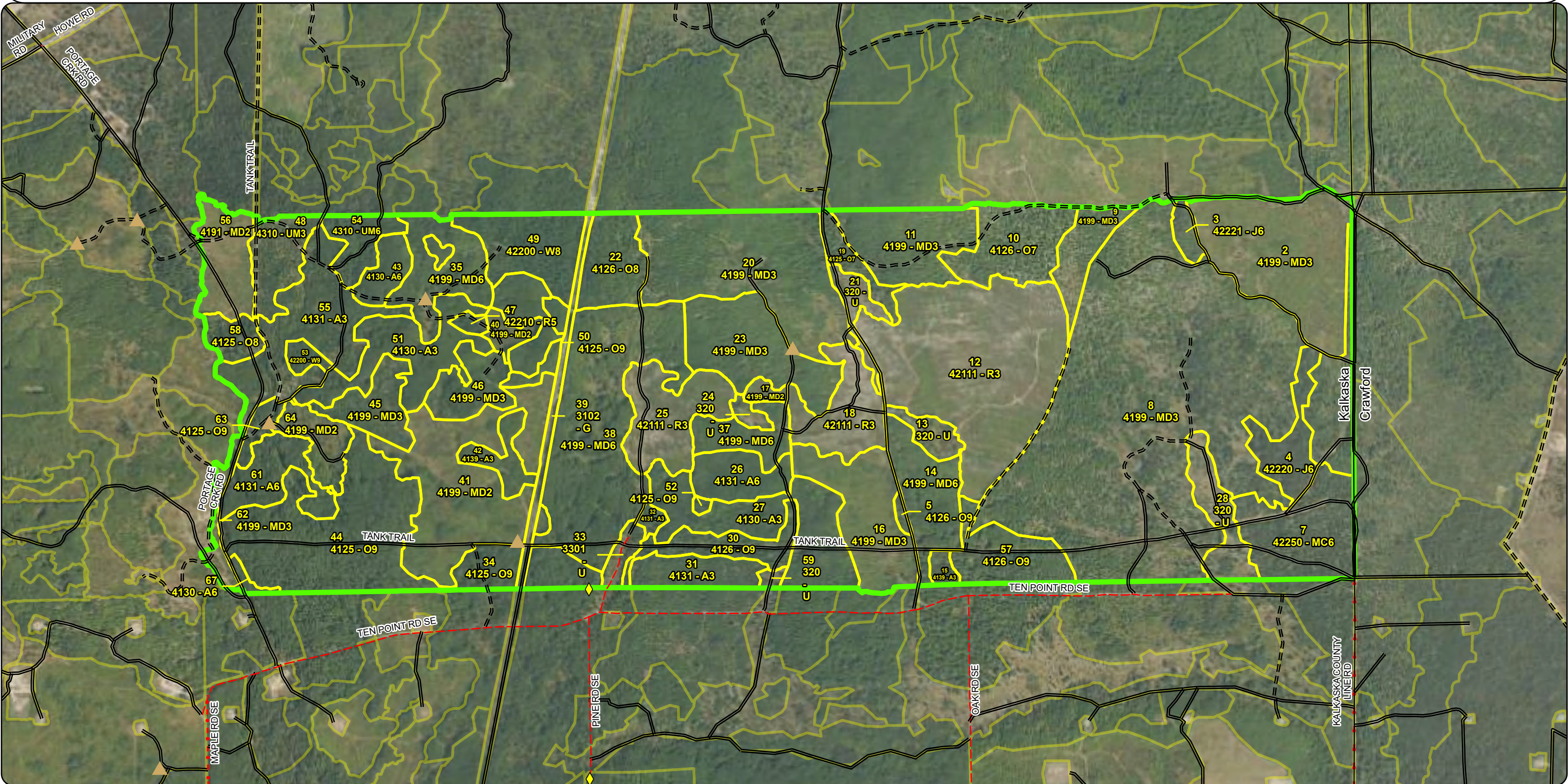
- | | | | |
|-----------------------------|-------------------------------|------------------------------|---------------------------|
| Survey Grade Corners | County - Dirt Road (Seasonal) | Prescribed Burn | 422 - Natural Pines |
| Berm | Private - Dirt / Gravel Road | 412 - Oak Types | 430 - Upland Mixed Forest |
| DNR - Secondary Forest Road | Compartment Boundary | 413 - Aspen | 310 - Herbaceous Openland |
| DNR - Forest Access Route | Seed Tree | 419 - Mixed Upland Deciduous | 320 - Upland Shrub |
| County - Gravel Road | Overstory Removal | 421 - Planted Pines | 330 - Low Density Trees |





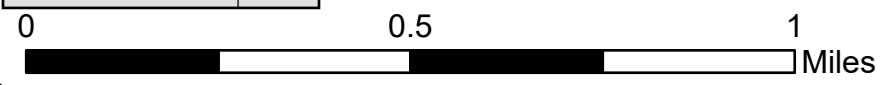
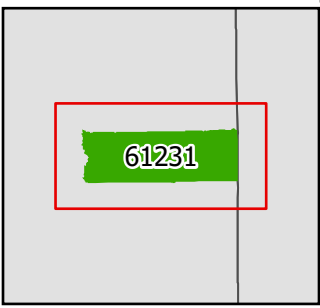
A horizontal scale bar with a black border. It is divided into four segments by three vertical lines. The segments are colored black, white, black, and white from left to right. Above the bar, the numbers 0, 0.5, and 1 are placed at the first, second, and third vertical lines respectively. To the right of the bar, the word "Miles" is written.

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|---|-----------------------------|---|-------------------------------|---------------------------|
|  | Survey Grade Corners |  | County - Dirt Road (Seasonal) | 421 - Planted Pines |
|  | Berm |  | Private - Dirt / Gravel Road | 422 - Natural Pines |
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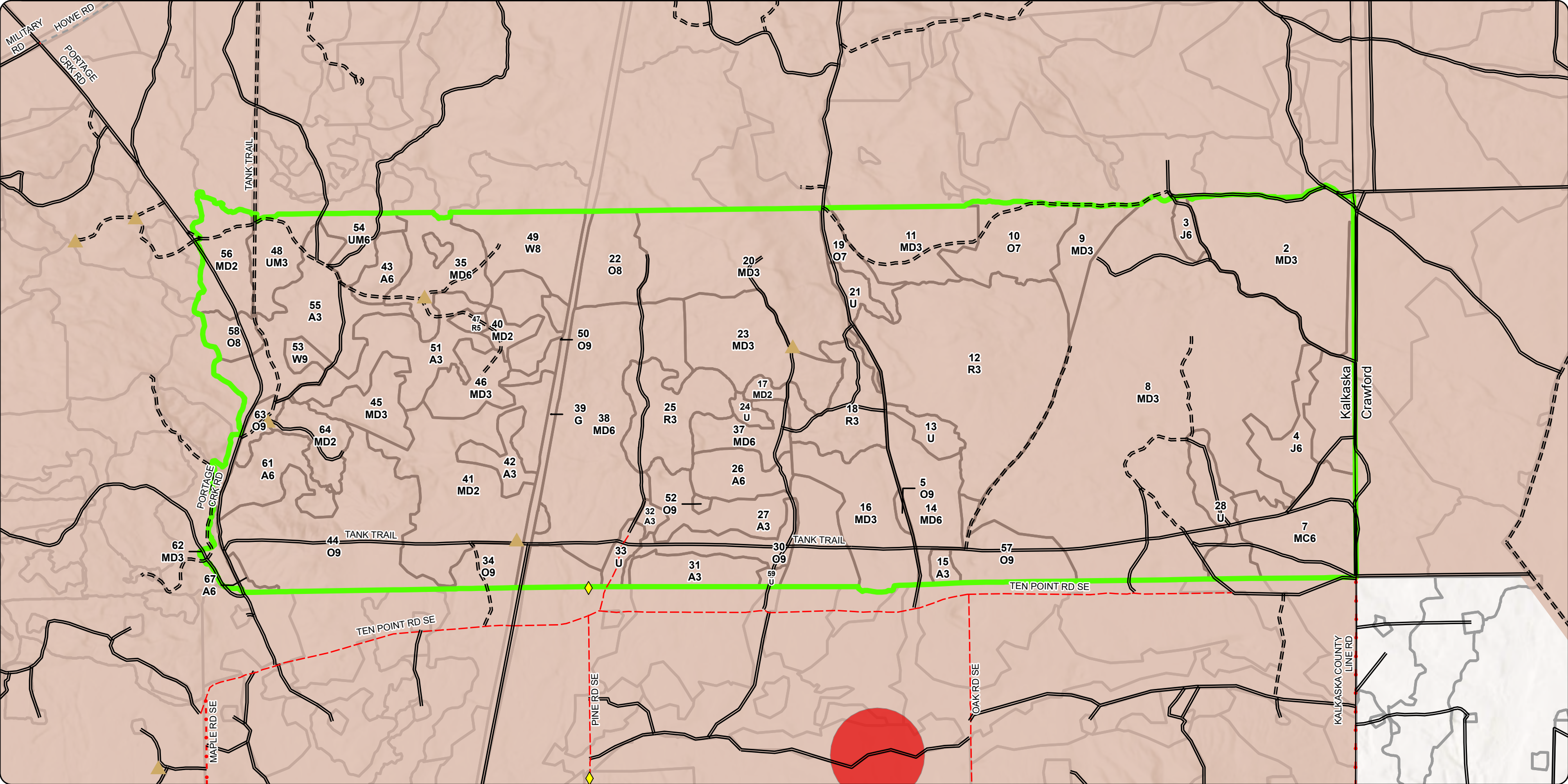


**Special Conservation Areas
& Site Conditions Map**

Compartment: 61231
T25N R05W 01-03
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Camp Grayling
YOE: 2027
Acres: 1,911 GIS Calculated
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Map Phase: Post Maps



- Survey Grade Corners
- Berm
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- 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	88	54	54	33	26	0	0	0	0	0	0	0	0	0	0	0	254
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	0	0	0	0	0	0	0	21	0	6	0	0	0	0	0	0	0	0	27
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	258	145	421	0	181	0	0	0	0	0	0	0	0	0	0	0	0	1005
Natural Mixed Pines	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	45
Oak	0	0	0	0	0	0	0	0	0	0	146	94	0	0	0	0	0	10	250
Red Pine	0	194	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	197
Upland Mixed Forest	0	0	20	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Shrub	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
White Pine	0	0	0	0	0	0	0	32	0	4	0	0	0	0	0	0	0	0	36
Total	61	452	253	475	54	274	26	53	3	10	146	94	0	0	0	0	0	10	1910

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 231
Total Compartment Acres: 1,911

Commercial Harvest - 151
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	Oversory Removal	Salvage	Other	Total Acres
Jack Pine	0	0	0	0	0	0	21	0	0	21
Oak	0	0	0	65	0	0	0	0	0	65
Total	0	0	0	65	0	0	21	0	0	86

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	86	0	0	0	254	0	0	0	0	340
Next Step	0	0	0	0	176	0	495	0	0	671
Total	86	0	0	0	430	0	495	0	0	1011

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

2	61231002-Burn	78.7	4199 - Other Mixed Upland Deciduous	3	9	Immature	Burn	Prescribed Burn	412 - Oak Types	Planting Record	No
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Prescription Perform a moderate to high intensity burn in the early leaf out stage of spring to stimulate browse oak saplings. Objective is to increase the percentage of oak sapling, above 4', by 20-30% and reduce 10-20% of the red maple and aspen competition.

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable

Regen:

Other Comment: DMVA/Military lands and will require Camp Grayling approval and notification. Might have to adjust operations depending on training schedule.

Site Condition:

Proposed Start Date: 10/01/2026

4	61231004-Cut	20.7	42220 - Natural Jack Pine	6	60	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
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Prescription Remove the jack pine overstory that is greater than 6 inches in DBH. Leave all other species. Protect the advanced oak regeneration during harvest. Apply oak wilt restriction.

Next Step

Treatments:

Acceptable

Regen:

Other Comment: DMVA/Military board land. Will need to apply the training time restriction and notification. Old inventory comments mention this area might have bullets in the trees.

Site Condition:

Proposed Start Date: 10/01/2026

30	61231030-Cut	17.9	4126 - White, Black, N. Pin Oak	9	109	81-110	Harvest	Seed Tree	4121 - Oak, Aspen	Cutting Record	No
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Prescription Mark to leave 3-5, mature oak trees per acre (preferably white oak where possible) to leave as a source of mast. Also, leave any red or white pine. Try to protect any pockets of advanced oak or pine regen.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable oak, maple, aspen

Regen:

Other Comment: This is Military owned land, so training restriction will need to be applied. Stand will also need to be chip harvested and apply oak wilt restriction as well. Pair with stand 27 in compartment 139 for a sale (2026 YOY).

Site Condition:

Proposed Start Date: 10/01/2025

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34 61231034-Cut	23.2	4125 - Black, N. Pin Oak	9	103	141-170	Harvest	Seed Tree	4121 - Oak, Aspen	Cutting Record	No
<u>Prescription Specs:</u> Mark to leave 3-5 mature oak trees per acre (preferably white oak where possible) to leave as a source of mast. Also, leave any red or white pine. Try to protect any pockets of advanced oak or pine regen. <u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory) <u>Acceptable Regen:</u> oak, maple, aspen <u>Other Comment:</u> This is Military owned land, so training restriction will need to be applied. Stand will also need to be chip harvested and apply oak wilt restriction as well. Pair with stand 27 in compartment 139 for a sale (2026YOE). <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										
41 61231041-Burn	175.6	4199 - Other Mixed Upland Deciduous	2	9	Immature	Burn	Prescribed Burn	412 - Oak Types	Planting Record	No
<u>Prescription Specs:</u> Conduct a moderate to high intensity burn during the early leaf out stage to stimulate the stunted oak regen. Conduct a second burn 3-4 years after the initial burn. Objectives are to increase the percentage of oak saplings, above 4' tall, by 20-30% and <u>Next Step Treatments:</u> Monitoring, Prescribed Burn; Burn, Prescribed Fire; Monitoring, Prescribed Burn <u>Acceptable Regen:</u> <u>Other Comment:</u> Rolling terrain, pockets of dense aspen and maple sprouts. TransCanada pipeline on the east boundary will need notification. DMVA/Military land and will need Camp Grayling approval and notification. Possible timing restriction due to training activities <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
57 61231057-Cut	24.2	4126 - White, Black, N. Pin Oak	9	105	111-140	Harvest	Seed Tree	4121 - Oak, Aspen	Planting Record	No
<u>Prescription Specs:</u> Mark to leave 2-5 mature oak trees/acre, preferably white oak, for seed and shelter. Also, leave any red or white pine. Try to protect any pockets of advanced oak regeneration. <u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory) <u>Acceptable Regen:</u> oak, aspen, maple, cherry. <u>Other Comment:</u> DMVA lands, apply appropriate sale spec. Stand will need to be chip harvested and apply oak wilt restriction. Look to pair with stand 53 in compartment 139 for a sale (2026YOE). <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										

Total Treatment 340.3
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 231
Year of Entry: 2027

Availability for Management

Total Acres **Acres Avail** Acres
Acres Available **With Condition** Not Available

Dominant Site Conditions

5E

255	255	0	0	Aspen	
12	12	0	0	Herbaceous Openland	
26	26	0	0	Jack Pine	
6	6	0	0	Low-Density Trees	
1005	1005	0	0	Mixed Upland Deciduous	
45	45	0	0	Natural Mixed Pines	
227	214	0	12	Oak	12
197	197	0	0	Red Pine	
35	35	0	0	Upland Mixed Forest	
43	43	0	0	Upland Shrub	
36	37	0	0	White Pine	
1,888	1,875		12	Total Forested Acres	12
	99%		1%	Relative Percent	

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

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 16 harvest.								
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier: Examiner

Compartment: 231

Year of Entry: 2027

5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: For stand 57 harvest.							
6	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: For stand 30 harvest.							

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

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																														
2	4199 - Other Mixed Upland Deciduous	Sapling Well			74.9	9	Immature	N/A	2024- Nice mix of species with decent oak recruitment. Heavy browse in areas has made the stocking patchy or variable. 2020-A few aspen clones throughout stand, final harvested with 231 deadish oak. some pockets of regen saved, alot of the oak that was cut was dead, expect to push hard to maple and aspen with some conifer and																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>40</td><td>Sapling</td><td>1</td><td>9</td></tr><tr><td>White Oak</td><td>5</td><td>Sapling</td><td>1</td><td>9</td></tr><tr><td>Quaking Aspen</td><td>25</td><td>Sapling</td><td>1</td><td>9</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Sapling</td><td>1</td><td>9</td></tr><tr><td>Pin Cherry</td><td>10</td><td>Sapling</td><td>1</td><td>9</td></tr></table>					Canopy Species	% Cover	Size Class	DBH		Age	Red Maple	40	Sapling	1	9	White Oak	5	Sapling	1	9	Quaking Aspen	25	Sapling	1	9	Black/Red (Hybrid) Oak	20	Sapling	1	9	Pin Cherry	10	Sapling	1	9	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Oak (spp.)</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Bigtooth Aspen</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Oak (spp.)	Medium	< 5 feet	< 5 feet	Red Maple	Medium	5 - 10 feet	5 - 10 feet	Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet
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3	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well			5.7	80	51-80	N/A	2024- Jack pine overstory is deteriorating. Oak and maple are developing in the gaps in the canopy. Mix of oak in the canopy.2015- Would treat this stand but concerned with bullets in trees.																																														
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4	42220 - Natural Jack Pine	Poletimber Well			20.7	60	51-80	N/A	2025- Oak is filling in the understory with a trace of white pine. Some individual stem mortality in the jack pine. Some scattered oak in the overstory. Some variability in the stocking.2015-Could treat except for possible bullets in trees.																																														
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5	4126 - White, Black, N. Pin Oak	Sawtimber Well			1.8	106	51-80	N/A	Left as retention for stand 16 harvest.																																														
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7	42250 - Pine, Oak	Poletimber Well			44.6	43	51-80	N/A	2025- stand transitioning to pole size timber. Nice mix of oak. Scattered mature red pine. 2015- Stand was cut in 1982.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
8	4199 - Other Mixed Upland Deciduous	Sapling Well	337.7	24	Immature	N/A	2024- Regen is filling well, with some open areas in the south and east part of the stand. Also, some scattered mature red and white pine.2015-Scattered white oak logs throughout stand. Also small clumps of mature jack pine within stand. Sale #023-00 - had to refund a lot of money on this sale because of bullets in trees.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	25	Sapling	2	24	Witch Hazel		Low	5 - 10 feet	5 - 10 feet
	White Oak	12	Sapling	1	24					
	White Oak	5	Log	12						
	Quaking Aspen	10	Sapling	2	24					
	Black/Red (Hybrid) Oak	35	Sapling	2	24					
	Red Pine	3	Log	12						
	Jack Pine	5	Sapling	2	24					
	Pin Cherry	5	Sapling	2	24					
9	4199 - Other Mixed Upland Deciduous	Sapling Well	17.5	16	Immature	N/A	231 Lone Oak Sale #684-07. Oak has been hammered by deer browse.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	45	Sapling	1	16					
	White Oak	10	Sapling	1	16					
	Bigtooth Aspen	5	Sapling	2	16					
	Black/Red (Hybrid) Oak	40	Sapling	1	16					
10	4126 - White, Black, N. Pin Oak	Sawtimber Poor	33.6	95	1-50	N/A	2024- Regen is filling in the understory. Over story looks healthy. Overstory stocking is variable.2015 - Stand was cut as part of the Salt Lick Sale #027-00. All oak <12" was cut along with all aspen and red maple. 3 dead oak/acre was also left.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Oak	20	Log	12	95	White Oak		Trace	5 - 10 feet	5 - 10 feet
	Black/Red (Hybrid) Oak	75	Log	16	95	Red Maple		Medium	10 - 20 feet	10 - 20 feet
	White Pine	5	Log/Pole	10		Black/Red (Hybrid) Oak		Medium	10 - 20 feet	10 - 20 feet
						White Pine		Trace	< 5 feet	< 5 feet
						Quaking Aspen		Low	10 - 20 feet	10 - 20 feet
11	4199 - Other Mixed Upland Deciduous	Sapling Well	37.8	24	Immature	N/A	2025- Well stocked stand. Nice clone of big tooth aspen in the west part of the stand. In the future it might be worth soperating out the pockets of aspen. 2014-This stand was cut as part of the Salt Lick Sale #027-00 in 2001.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	30	Sapling	3	24	Witch Hazel		Low	5 - 10 feet	5 - 10 feet
	White Oak	5	Sapling	1	24					
	Bigtooth Aspen	30	Sapling	3	24					
	Black/Red (Hybrid) Oak	35	Sapling	3	24					
12	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	128.3	8	Immature	N/A	2024- Red pine on an oak / aspen site. Mild terrain. Red maple and cherry competition along the east side of the stand.2020-Stand had a chapter 7 done to allow the salvage of the dead and dying oak and area to be planted to a fully stocker red pine stand. cut and trenched summer 2018...planted to red pine spring of 2019 and will likely need a release spray after that. Aerial spray 9/23/2020.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	15	Sapling	1	8					
	Red Pine	80	Sapling	1	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	320 - Upland Shrub	None	8.4			No	2024-Scattered pin oak and choke cherry.
14	4199 - Other Mixed Upland Deciduous	Poletimber Well	30.8	45	51-80	N/A	2024- Stand is an oak and red maple mix with a few clones of aspen, mostly in the south half of the stand. Stump Sprout originated. BA'S-90, 40, 70. 2015-Sale #9-80. Oak and red maple dominate the stand.
15	4139 - Aspen, Mixed Deciduous	Sapling Well	3.7	24	Immature	N/A	2025- Nice stem density and healthy stand. Pocket of cherry at the north end and is a little more scattered.
16	4199 - Other Mixed Upland Deciduous	Sapling Well	43.1	9	Immature	N/A	2024- Stand is regenerating ok. Variable stocking and quite a bit of browse. 2017-stand chapter 7'd to final harvest for a salvage of dead adn dying oak trees, this portion of parent stand had more red maple and aspen so this will be left to regenerate naturally... area to north will be trenched and planted to red pine.
17	4199 - Other Mixed Upland Deciduous	Sapling Medium	3.4	8	Immature	N/A	2024- This portion of the stand doesn't appear to have been planted. low to moderate stocking. A few residual red pine stem. This was previously and O8 stand that experienced some decline. 2020-Salvage cut summer of 2018 and trenched summer of 2018.
18	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	30.4	8	Immature	N/A	2024- Stand is doing well. Some areas with maple and aspen competition.2020-Salvage cut summer of 2018 and trenched summer of 2018. Planted spring 2019. 1 year regen check 10/7/19. Plots in south central part of stand. Looks pretty overgrown from the edges but the central part is fairly open/sedgy and trees are FTG. Quant data suggests spraying is necessary. 84% survival, 64% FTG. Might need to re-evaluate seedling survival after spraying. Primary competition is oak, RM, cherry and witch hazel with aspen in western and southern ends. Western tail west of road was originally supposed to be natural regen but got trenched and planted. Plot data in compartment file on S drive. Aerial release sprayed 9/23/2020.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
19	4125 - Black, N. Pin Oak	Sawtimber Poor	10.3	97	201+	N/A	Large scattered pin oak, with areas of pole timber and saplings.																																																																								
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20	4199 - Other Mixed Upland Deciduous	Sapling Well	88.3	15	Immature	N/A	2024- Stand is regenerating well to a nice mix of species with a good component of oak. Scattered mature oak left in the northeastern part of the stand. 2015-McLachlan Hill Oak Sale #614-07. Cut completed in 2010. Some mature oak was left in the north east part of stand, but most have died.																																																																								
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21	320 - Upland Shrub	None	9.3			No	2024- Scattered pin cherry, might be a frost pocket.																																																																								
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22	4126 - White, Black, N. Pin Oak	Sawtimber Medium	24.3	100	1-50	N/A	2024- Stand seem to be regenerating well with a nice mix of oak. Over story still looks healthy. stand i's on some moderate terrain. 2015-McLachlan Hill Oak Sale #614-07. All oak was left in stand that was greater than 12"DBH.																																																																								
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23	4199 - Other Mixed Upland Deciduous	Sapling Well	45.7	23	Immature	N/A	2024- stand is Well stocked with a good oak component. A few clones of big tooth aspen. stand is on rolling terrain. Mostly stump sprout origin. 2025-Stand was cut in 2002, sale #028-00 - Nor-Easter.																																																																								
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24	320 - Upland Shrub	None	3.5			No	2015- Scattered choke cherry and oak present.																																																																								

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25	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well			35.7	8	Immature	N/A	2024- Site was an oak stand that was salvage cut in 2018. Plantation is doing well. Gentle rolling terrain. Red pine is 3-4 tall. Some red maple, cherry and oak as well. 2019 -Planted spring 2019. 34,000 trees of 4-0 red pine. Regen survey 10/7/19. Put plots in the north half. 56% live seedlings, 49% FTG. Recommend release next and then replant. Competition is heaviest in the north half (mostly popple with some oak, RM and cherry). See NAIP 2018 CIR imagery for distribution of competition. Plot data in screenshot in compartment file on S drive. Aerial release spray 9/23/2020.																																														
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26	4131 - Aspen, Oak	Poletimber Well			19.0	42	111-140	N/A	2024- Nice quality aspen stand. Red maple and oak in the understory. Northend has more of a red maple and oak component. BAs: 120, 120, 130. 2015-Sale #19-80.																																														
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27	4130 - Aspen	Sapling Well			50.4	24	Immature	N/A	2024- well stocked and healthy stand.2015- Sale #029-00. Stand cut in late June/early July of 2001.																																														
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28	320 - Upland Shrub	None			20.1			No	2024- A grassy opening that is starting to filling in with hardwood sprouts. Some scattered mature oak. 2015- . Sale #023-00																																														
30	4126 - White, Black, N. Pin Oak	Sawtimber Well			18.8	109	81-110	N/A	2024- stand has several pockets of mortality. Prodominately a red maple understory with a little oak. 2015-This stand is the result of 2 separate sales, 614-07 & 632-06, separated by the defunct "Tail Trail". When the Tank Trail was developed, the Military wanted cover left along the trail to prevent regeneration, mainly of aspen. The Tank Trail is no longer used, so this requirement will no longer be used.																																														
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31	4131 - Aspen, Oak	Sapling Well			18.1	18	Immature	N/A	2024- High stem density. Areas of decent oak regen. 2015- Sale #632-06. Most of the timber sale occurred in compartment 139.																																														
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32	4131 - Aspen, Oak	Sapling Well	2.8	16	Immature	N/A	Sale #614-07. Cut in Fall of 2010.																																										
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33	3301 - Low Density Deciduous Trees	None	6.4			No	2024- stand filling in. Some red maple developing under the cherry.																																										
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34	4125 - Black, N. Pin Oak	Sawtimber Well	23.2	103	141-170	N/A	2024- stand has a small drainage or narrow depression in it. Some pocket and individual mortality in the overstory. More of an aspen component west of the pipeline.2015- Stand appears to have been cut sometime in the early 1970's, where aspen and red maple were removed and the oak was left. Lots of regeneration in places - aspen, red maple and oak.																																										
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35	4199 - Other Mixed Upland Deciduous	Poletimber Well	30.9	46	51-80	N/A	2025- Stump sprout originated. Stocking is variable. Some clones of aspen and some scattered mixed pine.																																										
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37	4199 - Other Mixed Upland Deciduous	Poletimber Well	17.3	42	81-110	N/A	2024- Stand was harvested the same time as stand 26. This slight ridge has regenerated more to oak and maple. 2015-Sale #19-80.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
38	4199 - Other Mixed Upland Deciduous	Poletimber Well	101.7	42	51-80	N/A	2024- stand has many areas dominated with red /black oak. South end of the stand is very well stocked and is more variable to the north. Smaller and poorer quality timber in the north half as well. Stump sprout originated. BA's: 90, 60, 802015-Density varies throughout stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		30	Pole/Sapling	5	42	Red Maple		Medium	>20 feet	>20 feet	
White Oak		5	Sapling/Pole	3	42						
Quaking Aspen		15	Pole/Sapling	6	42						
Bigtooth Aspen		20	Pole/Sapling	6	42						
Black/Red (Hybrid) Oak		30	Pole/Sapling	6	42						
39	3102 - Grass	None	11.9			No	DTE Pipeline ROW				
40	4199 - Other Mixed Upland Deciduous	Sapling Medium	6.5	9	Immature	N/A	2024- Rolling terrain. Regeneration is still patchy. Heavy browse. Pockets of oak regen but is mostly red maple. Along the west boundary of the stand is some thick maple and aspen regen. Stand is converting to a red maple /aspen stand. 2018- salvage sale cut summer 2018, 231 deadish oak. this area letting regenerate to mixed oak, deciduous and conifer. should fill in to a pretty good stocking. ok if some areas not as thick as this is a training area for military. Tank Trail Oak Sale #676-07				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		55	Sapling	1	9						
White Oak		5	Sapling	1	9						
Bigtooth Aspen		10	Sapling	1	9						
Black/Red (Hybrid) Oak		25	Sapling	1	9						
White Pine		5	Pole/Sapling	7							
41	4199 - Other Mixed Upland Deciduous	Sapling Medium	80.8	9	Immature	N/A	2024- Rolling terrain. Regeneration is still patchy. Heavy browse. Pockets of oak regen but is mostly red maple. Along the west boundary of the stand is some thick maple and aspen regen. Stand is converting to a red maple /aspen stand. This was previously an O9 stand that was in decline and also hit by spongy moth. 2018- salvage sale cut summer 2018, 231 deadish oak. this area letting regenerate to mixed oak, deciduous and conifer. should fill in to a pretty good stocking. ok if some areas not as thick as this is a training area for military. Tank Trail Oak Sale #676-07				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		55	Sapling	1	9						
White Oak		5	Sapling	1	9						
Bigtooth Aspen		10	Sapling	1	9						
Black/Red (Hybrid) Oak		25	Sapling	1	9						
White Pine		5	Pole/Sapling	7							
42	4139 - Aspen, Mixed Deciduous	Sapling Well	11.5	17	Immature	N/A	2024- Very well stocked. Some white oak establishing in the understory. 2015-Waldo Hill Oak #609-07.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		35	Sapling	2	17	White Oak		Low	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		55	Sapling	2	17						
Black/Red (Hybrid) Oak		10	Sapling	1	17						
43	4130 - Aspen	Poletimber Well	13.5	46	81-110	N/A	2024- Nice quality aspen stand with a good mix of oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Pole/Sapling	5	46	Black/Red (Hybrid) Oak		Trace	Variable	Variable	
White Oak		5	Sapling/Pole	4	46	White Pine		Low	Variable	Variable	
Bigtooth Aspen		65	Pole	7	46	Witch Hazel		Low	5 - 10 feet	5 - 10 feet	
Black/Red (Hybrid) Oak		10	Pole/Sapling	5	46						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
44	4125 - Black, N. Pin Oak	Sawtimber Well	87.9	97	81-110	N/A	2024- Some rolling terrain, Steep in areas. Some individual mortality but overall a healthy overstory. Stand is pushing to red maple and aspen with its current understory stocking. BAs: 100, 110, 90, 110, 100. 2015- Sale #020-00. All aspen and red maple removed in stand. Heavy red maple and pockets of aspen regenerating. Nice red oak in most of stand. No need for treatment at this time.																																																					
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45	4199 - Other Mixed Upland Deciduous	Sapling Well	19.5	17	Immature	N/A	2024- Dense stocking. The north end of the stand has a higher component of oak2015- Waldo Hill Oak #609-07.																																																					
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46	4199 - Other Mixed Upland Deciduous	Sapling Well	19.3	17	Immature	N/A	2024- High stocking. 2015-Waldo Hill Sale #609-07. Small 1/2 acre exclusion within stand.																																																					
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47	42210 - Natural Red Pine	Poletimber Medium	2.7	71	51-80	N/A	2024- Nice oak establishing under the pine. Several age and size classes of the pine overstory.2015-Waldo Hill Sale # 60-07. Everything removed but the pine.																																																					
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48	4310 - Pine, Oak Mix	Sapling Well	20.4	16	Immature	N/A	2024- High stem density. Southern portion is an aspen/maple mix, north west portion of the stand has more of a jack pine and oak component. 2015-Sale #605-07.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	42200 - Natural White Pine	Sawtimber Medium	32.1	61	51-80	N/A	2024- BAs: 70, 100, 30, 40, 10. Some legacy trees present. Over story stocking is variable. Regen is thick in places with a good amount of oak. Regen is thriving under the current conditions2015-Waldo Hill Sale #609-07. All aspen and red maple removed and most of the oak. No pine was cut in this stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	2	Log/Pole	12	97	Red Maple	Medium		10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	10	Log/Pole/XLog	14	97	Bigtooth Aspen	Low		10 - 20 feet	10 - 20 feet
White Pine	60	Log/Pole	11	61	Black/Red (Hybrid) Oak	Medium		10 - 20 feet	10 - 20 feet
Red Pine	28	Log/Pole	12	61	White Pine	Low		Variable	Variable
					White Oak	Low		5 - 10 feet	5 - 10 feet
50	4125 - Black, N. Pin Oak	Sawtimber Well	6.9	95	111-140	N/A	2024- Stand might be long term retention from the St 41 harvest. 2015- Small stand of oak located on a rather steep north facing slope with Trans-Canada pipeline bordering to the East side of stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	18	Pole/Sap/Log	8		Red Maple	Medium		Variable	Variable
White Oak	5	Log/Pole	12						
Bigtooth Aspen	2	Log/Pole	12						
Black/Red (Hybrid) Oak	75	Log/Pole	13	95					
51	4130 - Aspen	Sapling Well	54.4	35	Immature	N/A	2024- very well stocked. Oak developing in the Understory in places. Some scattered mature oak present.2015-Sale #37-89.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Sapling/Pole	3	35	Black/Red (Hybrid) Oak	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	85	Sapling/Pole	4	35	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	3	Log	13						
White Pine	2	Sapling/Pole	4	35					
52	4125 - Black, N. Pin Oak	Sawtimber Well	1.2	97	111-140	N/A	2024- Nice pocket of red oak. Retention pocket from adjacent harvest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Pole/Sapling	6	42	Red Maple	Low		Variable	Variable
White Oak	5	Log/Pole	12	97					
Bigtooth Aspen	10	Log/Pole	12						
Black/Red (Hybrid) Oak	70	Log	15	97					
53	42200 - Natural White Pine	Sawtimber Well	4.4	83	111-140	N/A	2024-BAs: 130, 140, 1202015-Small pocket of natural white pine with some oak sawlogs mixed in. Oak quality is low to fair.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	2	Pole	6		Black/Red (Hybrid) Oak	Low		< 5 feet	< 5 feet
White Oak	8	Log/Pole	12		White Pine	Low		Variable	Variable
Black/Red (Hybrid) Oak	10	Log/Pole/Sap	14						
White Pine	80	Log/Pole	12	83					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
54	4310 - Pine, Oak Mix	Poletimber Well	14.7	49	81-110	N/A	2024- Some scattered mature pine and oak. Stand appears to be two-aged. Nice mix of species. White pine developing in the understory.BA: 110, 90, 80																																																			
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55	4131 - Aspen, Oak	Sapling Well	55.6	16	Immature	N/A	2024- High stem density. Southern portion is an aspen/maple mix, north west portion of the stand has more of a jack pine and oak component. 2015-Sale #605-07.																																																			
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56	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	25.2	7	Immature	N/A	2024- stand is regenerating well. Oak has Sprouted up first but quite a bit of jack pine coming in. Oak isn't quite above the browse line.2019-Cut October 2019. 231 Forgotten, 61-619-17. Cut all trees >1" dbh with chipping. Original stand was 65% JP, 23% hybrid oak, 10% white oak, 2% RM.																																																			
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57	4126 - White, Black, N. Pin Oak	Sawtimber Well	26.6	105	111-140	N/A	2024- BAs-130, 140, 160 . Some individual mortality but overall a healthy overstory. South half of the stand had the red maple and aspen were removed about 20 years ago. and was paired with a stand in C139 for the sale.																																																			
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58	4125 - Black, N. Pin Oak	Sawtimber Medium	10.0	97	51-80	N/A	2024- Clumpy red maple regeneration is established in the understory. Overstory looks healthy. 2015-The aspen and red maple and marked oak were removed from this stand in 08-09. Sale #605-07.																																																			
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59	320 - Upland Shrub	None	1.9			No	Old U type filling in.																																																			

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																						
61	4131 - Aspen, Oak	Poletimber Well			23.7	54	81-110	N/A	2024- Very well stocked stand. Red maple understory. Diameters haven't fully developed. Some pockets of oak, on the hill tops																																						
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62	4199 - Other Mixed Upland Deciduous	Sapling Well			8.2	8	Immature	N/A	2024- stand has regenerated well. Nice component of oak. 2015- Part of Stand 98 that was not planted (as far as I can tell from cultivation records). Cut as part of Quercus Maximus, 61-671-16-01, cut 3/2017. Cut all trees >2". Oak salvage or pre-salvage due to oak decline and heavy gypsy moth defoliation. Military Board Land.																																						
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63	4125 - Black, N. Pin Oak	Sawtimber Well			6.2	97	81-110	N/A	2024- Fully developed white pine understory. Overstory oak is of moderate quality.																																						
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64	4199 - Other Mixed Upland Deciduous	Sapling Medium			16.0	9	Immature	N/A	2024- some moderate terrain. Regen is a bit patchy and is predominantly red maple with patches of oak and aspen. Scattered mature white pine. moderate to heavy deer browse. 2017- Unit 3 of Quercus Maximus, 61-671-16-01, cut 3/2017. Cut all trees >2" except red and white pine. Oak salvage or pre-salvage due to oak decline and heavy gypsy moth defoliation. Military Board Land.																																						
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67	4130 - Aspen	Poletimber Well			2.5	54	51-80	N/A	2024- Manage stand with compartment 139.																																						
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