



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61133

Entry Year 2024

Acreage: 2,561

County Kalkaska

Management Area: Camp Grayling

Stand Examiner: Steve Crigier

Legal Description:

T25N R5W Sections 4, 5 and 6; T25N R6W, Section 1

Identified Planning Goals:

Since all of this compartment is owned by or leased to the Department of Military and Veterans' Affairs as part of Camp Grayling, the primary management objective will be maintaining healthy, productive forest stands while facilitating military training. Within this constraint, management will attempt to increase diversity in species composition and age classes. One of the focuses on this entry's treatments is to continue to diversify the age classes amongst the oak cover type.

Soil and topography:

Terrain ranges from flat to rolling hills. The western part of the compartment is mostly flat. The eastern three-quarters are moderately hilly. The hilly part contains a few kettle-like open areas which are likely frost pockets. Soils are primarily Grayling sand with lesser amounts of Grayling-Graycalm Sand, Croswell Sand, and Au Gres Sand.

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

The entire compartment is State-owned lands. The north half of Section 1 is Military Lease Land. The remaining area is Military Board Land, owned by the DMVA but managed by the DNR. This compartment and all of the land adjacent to it is heavily used by Camp Grayling for training purposes.

Unique Natural Features:

This compartment is located within landtype associations (LTAs) 3111 and 5111 of sub-section VII.2.2. LTA 3111, characterized by ice contact ridges, few kettle lakes, and excessively drained loamy sand, comprises Sections 4, 5, and the central part of Section 6. Almost 90% of LTA 3111 supported conifer forests or pine/oak barrens at the time of the General Land Office survey. Soil types and fire frequencies determined the plant composition of these forests. LTA 5111 is a broad flat outwash plain with few kettle lakes and excessively drained soils. It comprises most of Section 1 and a portion of Section 6. Historically, this would have been characterized by savannas of jack pine and northern pin oak with scattered red pines.

According to notes from the GLO surveyors, the northwest part of this compartment was dominated by fire dependent pine plain or barrens communities. Originally there would have been numerous small areas of dry prairie which were associated with several rare species. While there are no records of rare species in this compartment, it does offer potential habitat for several rare dry prairie plants or insects in grassy openings and adjacent compartments have records of rare species. There is also the potential for Kirtland's Warbler, especially in the western portion of the compartment.

Archeological, Historical, and Cultural Features:

There are several old railroad grades within the compartment. The State Historic Preservation Office has documented an archaeological site in Section 5.

Special Management Designations or Considerations:

The entire compartment is Military Board Land or Military Lease Land.

Other than one drainage in Stand 2 which may be seasonally wet, there are no water bodies or streams within this compartment.

Watershed and Fisheries Considerations:

Other than one drainage in Stand 2 which may be seasonally wet, there are no water bodies or streams within this compartment.

Wildlife Habitat Considerations:

This compartment falls onto two ecological landscapes. An ice contact ridge with excessively drained loamy sand occupies most of sections 4 & 5 and half of section 6. Historically, this landscape was predominantly red and white pine forest with some components of oak and jack pine, affected largely by wildfires encroaching from the adjacent outwash plain. The outwash plain was dominated by fire-dependent communities of jack pine, mixed pine forest, and barrens, and covers most of section 1 and about half of section 6.

The ice contact ridge landscape is currently occupied by oak and mixed deciduous stands of various age classes. Military use of the land somewhat limits the habitat management opportunities but continuing the pattern of various age classes of these types will be beneficial to diverse wildlife species including gray squirrel, wild turkey, scarlet tanager, red-headed woodpecker, red-backed salamander, blue jay, deer, and broad-winged hawk. Small to medium regeneration harvests should include residual islands of mature trees for within-stand diversity and should retain mature pines and snags. Oak thinnings should be designed, if possible, to encourage regeneration of pine as well as oak.

Jack pine stands dominate the outwash plain. Final harvest of mature stands should be designed to mimic the results of wildfire as much as possible, but such treatment may be limited by the requirements of the military use of the land. Medium sized, irregularly shaped cuts should be spread out both spatially and temporally over the next several entry periods. Orienting some cuts in a southwest-northeast pattern will replicate natural fire patterns and increase edge. Leave islands or strips can be incorporated to further mimic fire patterns. Management for mature and regenerating jack pine forests, along with some minimal wildlife opening maintenance, will benefit species such as Nashville warbler, snowshoe hare, badger, garter snake, coyote, field sparrow, golden-crowned kinglet, red squirrel, and red-tailed hawk. Although not specifically being managed for Kirtland's warbler, this endangered species may also occupy regenerating pines to some extent.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is five miles away. A former pit is located in Sec 10, just southeast of the compartment. There is good potential for sand and gravel within the compartment. However, the compartment is within the Camp Grayling reservation/lease area. The State does not own the rights to the sand & gravel for some parcels, and for those where the State does own the rights, they likely could only be leased to the DMVA. The compartment borders the Garfield Sec 8 and Beaver Creek oil & gas fields to the south. One well, the State Garfield C1-4, was directionally drilled beneath the compartment in 2012 and has been producing since 2014. There may be potential for additional wells in the field. Due to DMVA surface ownership noted above, any wells accessing State-owned mineral rights beneath the compartment will need to be directionally drilled. 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. 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:

County roads and state forest roads in this compartment are very sandy and generally in poor condition. There is however an adequate amount of vehicle access.

Survey Needs:

No needs at this time.

Recreational Facilities and Opportunities:

The Cranberry Lake Snowmobile Trail runs along the western edge of the compartment. The State forest roads are heavily used by ATVs. The oak ridges in this compartment attracts lots of whitetail deer hunters.

Fire Protection:

The heavy concentration of jack pine in the western part of the compartment creates a high potential for large catastrophic fires. Timber sales during the last year of entry have reduced this to some degree but fire danger will increase as those jack pine stands regenerate. Military Road east of Sunset Trail has been identified as a fire break and the road will be maintained as such.

Additional Compartment Information:

The following reports from the Inventory are attached:

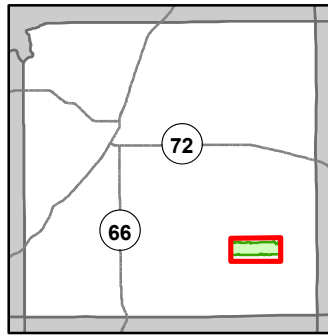
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

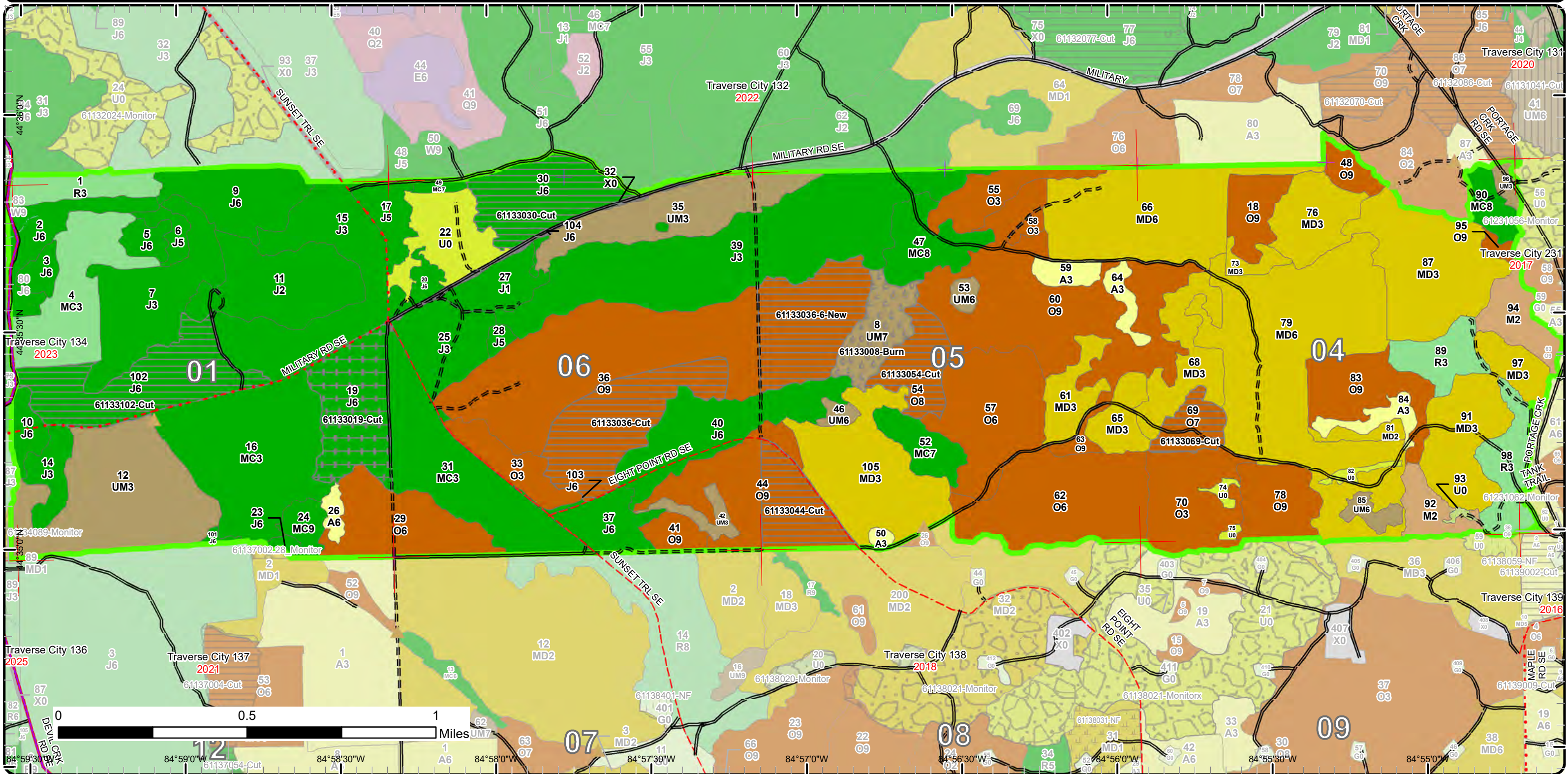
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 133
 T25N, R05W, Sec. 4-6, n\T25N,
 R06, Sec. 1
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 2560.6 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review

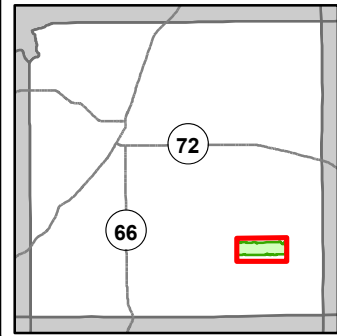


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Intermittent Stream
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees

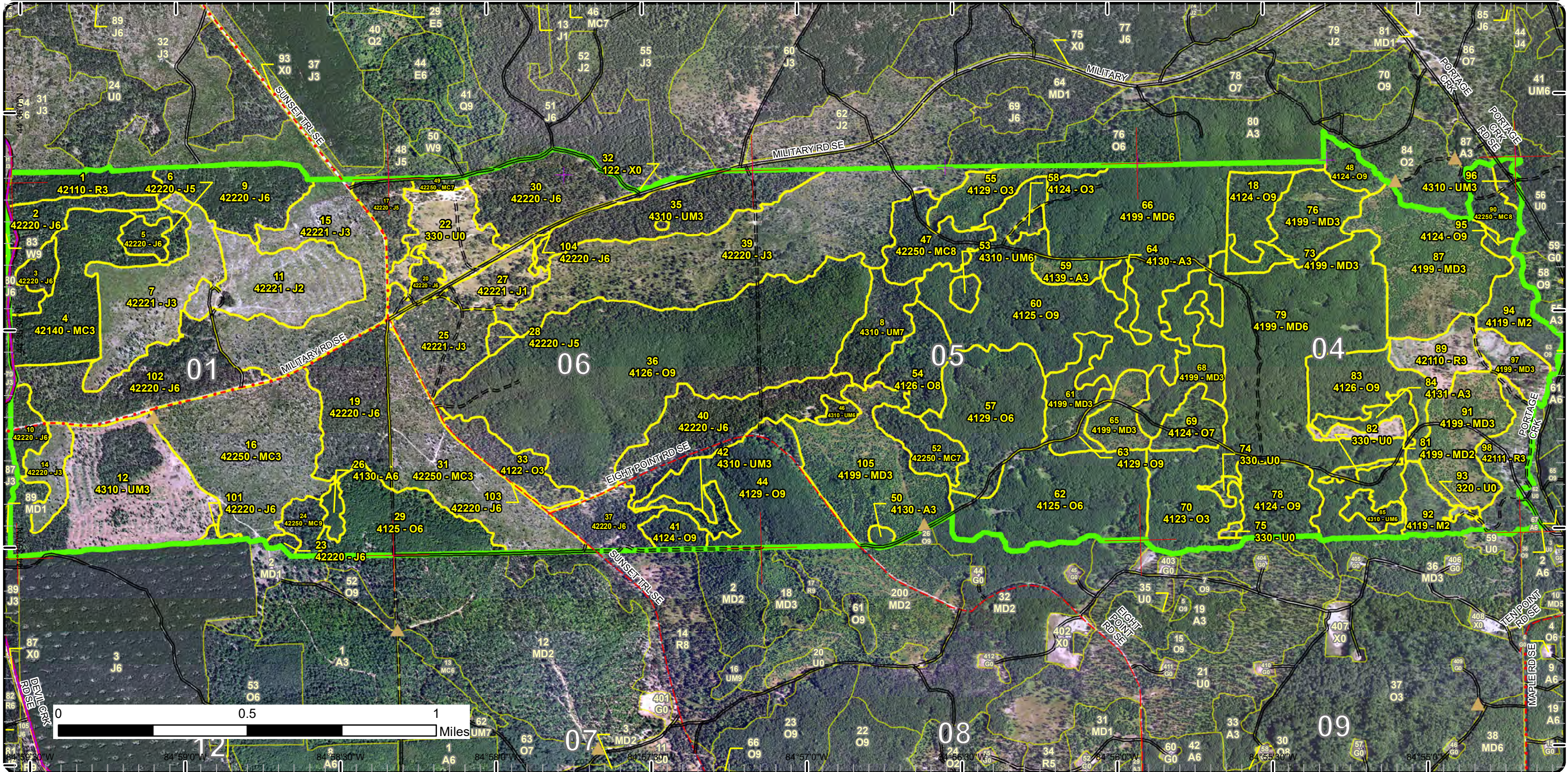


Stand Boundary Map

Compartment: 133
 T25N, R05W, Sec. 4-6, n\T25N,
 R06, Sec. 1
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 2560.6 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review

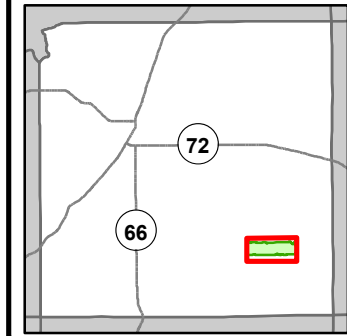


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees

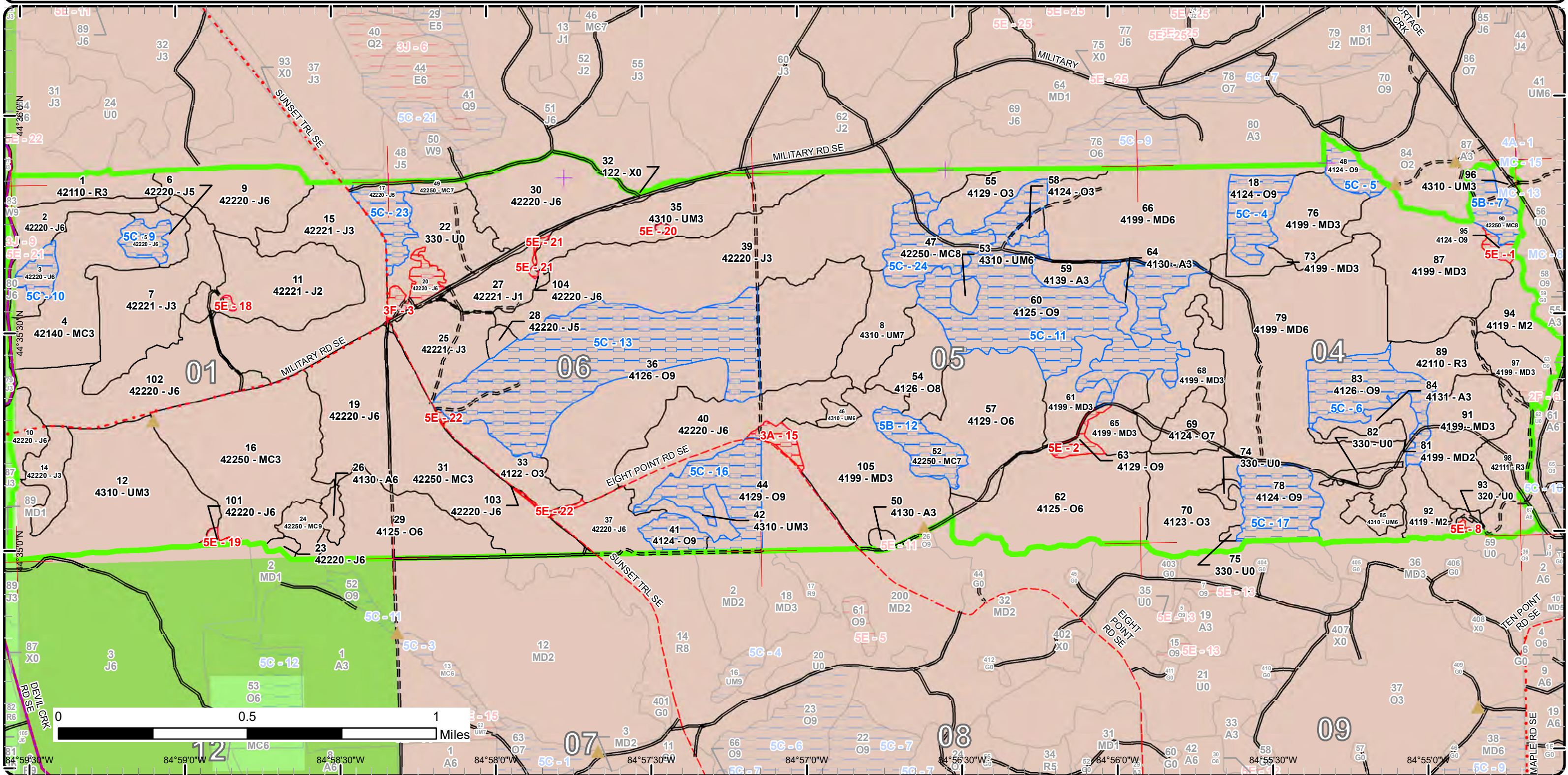


Special Conservation Areas

Compartment: 133
 T25N, R05W, Sec. N1/2 of 13, 14, 15
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 2560.6 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3F: Military easement / lease
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Research, Development, and Military Lands
- 5B: Maintain for regeneration purposes



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	7	17	4	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Jack Pine	0	48	263	29	44	30	68	27	154	6	0	0	0	0	0	0	0	17	686
Low-Density Trees	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	0	45	179	53	78	148	0	0	0	0	0	0	0	0	0	0	0	0	502
Natural Mixed Pines	0	0	148	0	0	0	9	0	3	36	15	0	0	0	0	0	0	0	211
Northern Hardwood	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Oak	0	19	23	0	82	124	0	0	4	247	120	149	0	0	0	0	0	0	768
Planted Mixed Pines	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	48
Red Pine	0	43	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Upland Mixed Forest	0	135	7	0	0	10	0	0	0	23	0	3	0	0	0	0	0	0	178
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	45	323	627	99	226	360	77	27	161	312	135	152	0	0	0	0	0	17	2560



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 133
Total Compartment Acres: 2,561

Commercial Harvest - 309
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
Jack Pine	99	0	0	0	0	0	44	0	0	143
Oak	166	0	0	0	0	0	0	0	0	166
Total	265	0	0	0	0	0	44	0	0	309

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	309	0	0	0	23	0	0	0	0	331
Next Step	0	0	0	0	65	0	250	0	0	315
Total	309	0	0	0	87	0	250	0	0	646



Stand	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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Proposed Treatments:

8	61133008-Burn	22.6	4310 - Pine, Oak Mix	Sawtimber Poor	86	1-50	Burn	Understory	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Burn to stimulate the stunted oak regen to get it above the browse line. North end has blueberry as the ground cover and this would work well to stimulate new growth on the vaccinium species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak, pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand is in a slight valley with rolling terrain. Access is best through the south. Road access and line work needs to be done outside oak wilt restrictions (4/15-7/15). Adjacent timber sales to the west and east. Look into pairing with stand 54 (post harvest Rx). But could also stand alone. This is also military board land, proper notifications to Camp Grayling will need to be made.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
19	61133019-Cut	44.2	42220 - Natural Jack Pine	Poletimber Well	74	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Remove the overstory and try to avoid damaging the advanced oak regen as much as possible. Mark some white oak to leave for mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak spp, jack pine, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Military board land.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
30	61133030-Cut	41.9	42220 - Natural Jack Pine	Poletimber Well	79	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand and have it chipped per Military specifications. Try to leave as much of the oak regen as possible. Concentrate retention in the western portions of the stand. The military uses stand 22 for training purposes so no landings to the west of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, oak, aspen, cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u> Military board land.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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36 61133036-6-New	47.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4129 - Mixed Oak	Even-Aged	No
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Prescription Final harvest stand but leave some white pine and white oak for seed and shelter (1-5 TPA). Where the pine component is heavier leave
Specs: leave a residual BA of Pine (10-20sqft/ac). Leave white all the white pine less than 4". It would be good to have stand chipped or tree length harvested to scarify site.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, pine, aspen, red maple.

Regen:

Other Advanced white pine regen is thick in places along the north slope. Some steep terrain. Military board land. There is an Archeological site
Comment: south of the stand which needs to be protected and might alter hauling access.

Site Condition

Proposed Start Date: 10/1 /2023

36 61133036-Cut	53.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
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Prescription Final harvest stand but leave some white pine and white oak for seed and shelter (1-5 TPA). Where the pine component is heavier leave
Specs: leave a residual BA of Pine (10-20sqft/ac). Leave white all the white pine less than 4". It would be good to have stand chipped or tree length harvested to scarify site.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, oak, aspen, maple,

Regen:

Other Hilly terrain. There is an Arch site SE of the treatment that might impact hauling and landing locations.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

44 61133044-Cut	27.7	4129 - Mixed Oak	Sawtimber Well	96	111-140	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
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Prescription Final harvest to restart. Leave the young white pine less than 4". Also mark some white oak and white pine to leave (~1/ac). Chip harvest
Specs: stand. Might be worth looking into a post harvest burn to stimulate the oak?

Next Step Monitoring, Natural Regen (Re-Inventory); Burn, Other

Treatments:

Acceptable Pine, oak, maple, aspen

Regen:

Other Might be worth looking into a post harvest burn to stimulate the oak an Arch site to the north of the treatment that might impact hauling and
Comment: landing locations.

Site Condition

Proposed Start Date: 10/1 /2023



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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
54 61133054-Cut	23.0	4126 - White, Black, N. Pin Oak	Sawtimber Medium	92	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Remove the overstory but leave some scattered white pine and white oak, about 1 tree/acre. Also try to remove as much of the advanced aspen and red maple regen as possible. Cut all trees greater than 1". Line out any larger pockets of aspen regen. Have the sale chip harvested to help treat the slash for a potential post harvest burn. Apply oak wilt spec as there is a decent amount of oak in the understory. This is also military board land.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Understory</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak, pine, maple, aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Best access is from the south. Fairly hilly terrain. Plan to do a post harvest burn to stimulate the stunted advanced oak regen and get it above the browse line.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
69 61133069-Cut	14.0	4124 - Red with White Oak	Sawtimber Poor	105	1-50	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Removed the overstory, but mark a few oaks to leave for mast ~ 1/ac. Also try to set back the aspen and maple regen by having that cut, cut all trees greater than 1". Chipping might be preferred as this will hopefully be followed up with a burn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Understory</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak, aspen, maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
102 61133102-Cut	56.8	42220 - Natural Jack Pine	Poetimber Well	74	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Mark some white oak and white pine to leave. Also don't cut oak or white pine that are less than 4".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, white pine, oak spp.</p> <p><u>Regen:</u></p> <p><u>Other</u> military board land.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 331.3
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 133
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions								
					5B	5C	MC	2F	3A	3F	5E		
29	29	0	0		Aspen								
687	646	28	13		Jack Pine		28				8	5	
6	6	0	0		Low-Density Trees						0		
503	501	0	2		Mixed Upland Deciduous				2				
211	159	51	0		Natural Mixed Pines	27	24						
33	33	0	0		Northern Hardwood							0	
767	413	342	12		Oak		342			5		7	
48	48	0	0		Planted Mixed Pines								
61	61	0	0		Red Pine								
178	178	0	0		Upland Mixed Forest			0				0	
1	1	0	0		Upland Shrub								
8	8	0	0		Urban						0		
2,531	2,083	421	27		Total Forested Acres	27	395	0	2	5	8	13	
	82%	17%	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	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3F: Military easement / lease	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Stand is all Military Board Land and is used for training purposes. Timber volume is too low to justify cutting.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 133
Year of Entry: 2024

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	0	3F: Military easement / lease	Unspecified	Unspecified	Unspecified
Comments: Military Board Land.							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 133

Year of Entry: 2024

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	111	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 133
Year of Entry: 2024

17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from stand 35 the chipper chopper timber sale							
22	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from stand 33 timber sale Chopper Chipper							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 133
Year of Entry: 2024

24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
1	42110 - Planted Red Pine	Sapling Well	18.1	32	81-110	N/A	Military Lease Land. Similar to Stand 4. Clearcut in 1977. Mixture of natural jack pine and planted red pine. Red pine planted between 1986 and 1994 (FTP C-62-295) in wide spacing and in strips with 4 ch of natural regeneration between strips. Significant jack pine has regenerated even in planted areas. Jack pine and red pine dominance alternates throughout the stand. Red pine is suppressed in areas with good jack pine regeneration but doing ok in areas that were more open. Also contains scattered clumps of log-sized jack pine, showing some mortality, probably remnants from previous stand. Stand continues into Compartment 132, to the north. Snowmobile trail 76 runs along western edge.																																	
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2	42220 - Natural Jack Pine	Poletimber Well	23.8	42	51-80	N/A	2012 - Military Lease Land. Variable stand. Parts have some planted red pine (like stand to north) but it is heavily suppressed by natural jack pine regeneration. Parts are larger jack pine (at least 48 years old) showing little to no mortality. Some open areas. Shallow drainage runs through northwestern part of stand although it's probably not mapped correctly. Northwest corner also contains poorly drained soil with pockets of different vegetation including leatherleaf. Snowmobile trail 76 runs through western part of stand. 2022 - Red pine understory is 2-4" in diameter and about 25 years old. Jack pine overstory is nearing maturity.																																	
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3	42220 - Natural Jack Pine	Poletimber Well	6.3	68	81-110	N/A	2012 - Military Lease Land. Appears to be an island of mature jack pine within area that was planted. Jack pine is relatively dense. 2022- Nice pocket of jack pine. Some individual mortality. Traces of white pine in the understory.																																	
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4	42140 - Planted Mixed Pine	Sapling Well	47.8	44	51-80	N/A	2012 - Military Lease Land. Similar to Stand 1. Cut in 1977. Mixture of natural jack pine and planted red pine. Red pine planted between 1986 and 1994 (FTP C-62-295) in wide spacing and in strips with 4 ch of natural regeneration between strips. Significant jack pine has regenerated even in planted areas. Jack pine and red pine dominance alternates throughout the stand. Red pine is suppressed in areas with good jack pine regeneration but doing ok in areas that were more open. Some canopy gaps. Lots of leatherleaf in southeastern corner of stand. Snowmobile trail 76 runs along western edge. 2022 - Jack pine is holding up well. Red pine is not quite merchantable. Future management could be tricky.																																	
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5	42220 - Natural Jack Pine	Poletimber Well	7.1	67	81-110	N/A	2012 - Military Lease Land. Jack pine is dense but small in diameter. Lots of leatherleaf in the understory but almost no trees; a few white pine seedlings and at least one balsam fir seedling. Soil is poorly drained Au Gres Sand. Very few scattered overstory red pine and white pine. 2022- stand is showing no signs of decline, suprising for its age.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
6	42220 - Natural Jack Pine	Poletimber Medium	6.3	43	51-80	N/A	2012 - Military Lease Land. Cut in 1979. More open than other jack pine stands nearby. Groundcover is more leatherleaf than bracken fern. 2022 - Trees vary in size quite a bit. I think we should wait till the next YOE to harvest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		3	Pole	8		Jack Pine		Low	< 5 feet	Sapling
Jack Pine		97	Pole/Sapling	7	43	Black Cherry		Low	5 - 10 feet	Sapling
						White Pine	Trace	5 - 10 feet	Sapling	
7	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	51.1	14	Immature	N/A	2012 - Mostly Military Lease and some Board Lands. Part of Aimless Jack sale, 61-069-04-01. Final harvest and chipped, 10/08. All oak was left. A few jack pine seedlings and only trees greater than 3' are cherry sprouts. No oak at north end but scattered log-sized oak and a few clumps of 4-6" DBH oak at south end. Previous stand contained scattered opening along western and southeastern edges that are now hard to distinguish from natural regen. 2022 - stand has filled in well. East end has a little lower stocking. Regen is about 10' tall. Still quite a bit of cherry mixed in.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		5	Sapling	1						
Black Cherry		25	Sapling	1						
Black/Red (Hybrid) Oak		10	Sapling/Pole	3						
Jack Pine		60	Sapling	1	14					
8	4310 - Pine, Oak Mix	Sawtimber Poor	22.6	86	1-50	N/A	2012 - Pine/oak dominance alternated in original stand. Will probably shift towards white pine. 2017 - Military Board Land. Cut winter 2016-2017. Residual BA ~50 sf/acre; mix of pine and oak. 2022 - Stand is slowly regenerating. Oak is still below the browse line and fairly sparse for the most part. North end has very little overstory and not much oak regen and looks like a blueberry ground cover. South half is more of an Pine/oak overstory with jack pine and oak as the understory. Stand is in a slight valley, old Railroad grade present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		25	Pole/Log	9		Bigtooth Aspen		Low	< 5 feet	Sapling
Red Pine		40	Log/Pole/XLog	12	86	Jack Pine		Medium	< 5 feet	Sapling
White Pine		15	Log/Pole	10	86	White Pine		Low	10 - 20 feet	Sapling
Northern Pin Oak		20	Pole/Log	8		Oak (spp.)		Medium	< 5 feet	Sapling
						Red Maple		Low	< 5 feet	Sapling
9	42220 - Natural Jack Pine	Poletimber Well	34.8	36	51-80	N/A	Military Lease Land. Clearcut in 1985. Cut continues into Compartment 132 to the north. Jack pine DBH varies from 2-14" with more older trees in east part of stand. Stand barely meets pole size class. No oak in understory, unlike some other nearby jack pine stands. Old railroad grade runs through east part of stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		95	Pole/Sap/Log	5	36	White Pine		Trace	5 - 10 feet	Sapling
Black Cherry		5	Sapling	3		Black Cherry		Low	5 - 10 feet	Sapling
						Jack Pine		Low	< 5 feet	Sapling
10	42220 - Natural Jack Pine	Poletimber Well	9.4	36	1-50	N/A	2012 - Military Board Land. Clearcut in 1985. Dense jack pine with a few canopy gaps. Some scattered clumps of log-sized jack pine. Stand continues into Compartment 134 north of Military Road. Snowmobile trail 76 runs along northwest edge. 2022 - stand is starting to convert to pole size timber. Still a lot of saplings though.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		3	Sapling	4		Jack Pine		Low	< 5 feet	Sapling
Jack Pine		92	Pole/Sapling	5	36	Black Cherry		Low	< 5 feet	Sapling
Red Pine		5	Pole/Sapling	6		Red Pine		Low	10 - 20 feet	Sapling
11	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	48.4	7	Immature	N/A	2012 - Military Lease Land. Mostly jack pine with some mortality. Good oak advanced regeneration, mostly 3-10' tall and 1-2" DBH. Groundcover also includes multiple species of woody shrubs. 2022 - stand was cut in 2015. All greater than 4" were harvested. Regen stocking is still kind of patchy but appears to be filling in.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		60	Sapling	1	7					
Black Cherry		20	Sapling	1						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
12	4310 - Pine, Oak Mix	Sapling Well	84.1	7	Immature	N/A	2022 - Stand was cut in 2015. Most of the red pine and white pine were left. Also looks like they tried to leave the advanced oak regen. Quite a bit of cherry sprouted after the harvest. Jack pine is coming in pretty well but is mostly 1-2' tall.																																								
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14	42220 - Natural Jack Pine	Sapling Well	13.5	14	Immature	N/A	2012 - Military Board Land. Part of Aimless Jack sale, 61-069-04-01, cut 10/2008. Final harvest and chipped. Left all oak. Sparse regeneration consists of low density jack pine seedlings. 2022 - stand has filled in nicely. Regen is about 10' tall.																																								
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15	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	65.3	14	Immature	N/A	2012 - Military Lease Land. Part of Military Sunset Jack sale, 61-102-04-01. Completed 6/08. All jack pine was cut. Fair number of jack pine ~3-4" dbh left. Good jack pine regeneration. Very few scattered mature oaks and a few oak seedlings in places. Occasional mature white pine and red pine. Also, a few black cherry seedlings and saplings. 2022 - Stand is well stocked. Nice mix of oak mixed in the stand.																																								
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16	42250 - Pine, Oak	Sapling Well	83.6	14	Immature	N/A	2012 - Military Board Land. Part of Military Jack sale, 61-062-04-01, cut 6/2008. Final harvest of all trees 4" and up. Fair number of jack pine ~3-4" dbh. Good jack pine regeneration. Very few scattered mature oaks and fair number of oak seedlings in places. Also, a few black cherry seedlings and saplings. 2022 - jack pine has filled in nicely and is about 10' tall. Scattered pole sized timber in stand.																																								
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17	42220 - Natural Jack Pine	Poletimber Medium	14.1	67	51-80	N/A	2012 - Military Board and Lease Land. Variable stand. Jack pine diameter varies from 2-10". Good oak regeneration (seedlings to 6" DBH) in places. Scattered openings. Some jack pine mortality. Part of central section is an area of near-total jack pine mortality which has regenerated naturally to jack pine, 2" DBH and 10'15' tall, and oak. Rolling hills. Northeast part is adjacent to stand heavily used by military.																																								
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18	4124 - Red with White Oak	Sawtimber Well	17.7	100	51-80	N/A	2012 - Military Board Land. Thinned 12/2008, Military Oak Sale, 61-020-04-01. Good quality oak, mature trees are more red than white. Thinned less heavily than other stands that were recently thinned. Fair amount of 2-3" oak but it is more white than red. Parts are more of a pole stand than log. 2019: Part of Stand 76 that was not treated. 2022 - Medium quality oak, Some oak is regenerating after the thinning. Stand looks healthy and not much sign of decline.																																																			
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19	42220 - Natural Jack Pine	Poletimber Well	44.2	74	51-80	N/A	2012 - Military Board and Lease Land. Variable jack pine DBH: 4-12" with some mortality. Scattered mature oak in canopy with high oak density in understory. Probably more white than red. Scattered semi-open areas. Southeast corner of stand is different but less than 3 acres; less jack pine and more red pine, oak and pole-sized aspen. 2022- Open areas where mature jack pine has fallen out is filling in with young jack pine and oak. Mature stocking is variable.																																																			
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20	42220 - Natural Jack Pine	Poletimber Well	7.6	79	51-80	N/A	2012-Military Board Land. Variable, poor quality stand with edges fading into opening. Jack pine diameter varies from 2-12". Some jack pine mortality. Decent advanced oak regeneration. Some military or recreational activity at edges.																																																			
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22	330 - Low-Density Trees	Nonstocked	29.7			No	Military Board Land. Mostly open with widely scattered jack pine seedlings and saplings, black cherry sapling clumps, oak seedlings and saplings and a few larger jack pine and oak. Some recreational use during hunting season.																																																			
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23	42220 - Natural Jack Pine	Poletimber Well	2.1	74	81-110	N/A	Military Board Land. Heavy oak understory in places (1/2 - 2" DBH).																																																			
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24	42250 - Pine, Oak	Sawtimber Well	8.7	57	81-110	N/A	2012 - Military Board Land. Variable stand. Southern part is dominated by oak but north is more jack pine. Good oak regeneration in parts but mature oak is only fair quality. Very slight hill, but no operability issues. Jack pine is more dominant at north end. 2022 - Lots of size classes of jack pine mixed with large diameter oak.																																											
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25	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	28.7	27	Immature	N/A	2012 - Military Board Land. Stand was cut in 1994 with all species except oak removed. Good jack pine regeneration with oak throughout. Scattered canopy gaps. 2022 - stand has filled in well. Jack pine is about 20' tall. Some scattered log sized oak. Patches of oak regen.																																											
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26	4130 - Aspen	Poletimber Well	4.2	36	1-50	N/A	2012 - Military Board Land. Clearcut in 1985. Mostly aspen with a few stump-sprouted maple and oaks. 2022 - stand is transitioning to more pole size timber. A fair amount of oak in the understory.																																											
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27	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	16.8	15	Immature	N/A	2012 - Military Board Land. Military uses part near road as a landing zone. Clumps of mixed pine and oak saplings and poles and scattered seedlings. 2022 - Stand is starting to fill in a bit, mostly with jack pine and some oak Saplings. A pocket of large oaks in the NW corner.																																											
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28	42220 - Natural Jack Pine	Poletimber Medium	2.9	80	1-50	N/A	2012 - Military Board Land. Remnant of Stand 41/OI stand 167, which was cut in 2007. Some jack pine mortality. Very heavy oak understory, ranging from seedling size to 20' tall. 2022- stand is converting to an oak stand as the jackpine continues to decline.																																											
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29	4125 - Black, N. Pin Oak	Poletimber Well	42.6	36	1-50	N/A	2012 - Military Board Land. Clearcut in 1985. Good regeneration with good mix of species, but mostly multi-stem clumps. Hard to tell what dominates. Stand is on a ridge running east-west. Pockets on top of ridge are dominated by pines. 2022 - stand is converting to more pole timber size. Very well stocked. Stand appears to be pushing more towards an oak cover type. A 5 acres or so pocket in the north east is more of a cherry and red maple sapling pocket.																																												
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30	42220 - Natural Jack Pine	Poletimber Well	41.9	79	51-80	N/A	2012-Military Board Land. Good advanced oak regeneration including saplings 2-4" DBH. Moderate jack pine mortality. Some pockets of total jack pine mortality have allowed oak to grow. Some additional canopy gaps especially along Military Road and northwest corner near area of heavy training use. Evidence of past fire. 2022- Some pockets of saplings where the overstory has died off. Quite a few size classes. Stand appears to still be healthy.																																												
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31	42250 - Pine, Oak	Sapling Well	64.1	14	Immature	N/A	2012 - Military Board Land. Part of Military Jack sale, 61-062-04-01. Cut 6/2008. Final harvest all trees 4" and up. Includes some former openings. Good oak regeneration: dense stump sprouts 5-10' tall and scattered individuals 2-4" DBH. Scattered 4" DBH jack pine. Rolling hills. 2022 - Thick jack pine regen about 15' tall. A good amount of oak mixed in. A few pockets of aspen as well.																																												
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32	122 - Road/Parking Lot	Nonstocked	7.6			No	Military Board Land. Military Road is not maintained by the county through this section and is very sandy. As such, multiple parallel trails have developed. Also used as a fire break.																																												
33	4122 - Oak, Pine	Sapling Well	18.8	6	Immature	N/A	2012 -Military Board Land. Jack pine old but small; DBH 2-14" with some mortality. Very heavy oak understory. Stand is flat terrain at base of hill. Some evidence of fire at south end of stand. South end is smaller jack pine and more open. "Flat terrain with lots of advanced regeneration. Merchantable timber is in fairly poor condition. Some evidence of fires." 2022- stand was final harvested in 2016, left a few large oaks. Stand is regenerating well to an even mix of jack pine and oak. Trees are 3-5' tall.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
35	4310 - Pine, Oak Mix	Sapling Well	46.7	6	Immature	N/A	2012 - Military Board Land. Mostly jack pine with some poor quality oak in the canopy. Most oak in understory is less than 3' tall. Some jack pine mortality. Jack pine is smaller than stand across Military Road. Gentle hills.2022 - stand was final harvested and chipped in 2016. Right now its A pretty even mix of oak and jack pine. Jack pine is 2-3' tall and oak is~ 5' tall.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		20	Sapling	1	6			
Northern Pin Oak		25	Sapling	1	6			
Jack Pine		55	Sapling	1	6			
36	4126 - White, Black, N. Pin Oak	Sawtimber Well	212.3	82	81-110	N/A	2012 - Military Board Land. White pine understory is heavy in scattered pockets. Oak quality is poor to moderate. Stand is along a ridge with some steep slopes. Scattered white pine, red pine, jack pine and aspen in overstory. Eastern third (east of N-S) road is older. 2022 - Seeing some individual an group mortality, probably from the 2016 gypsy moth outbreak. Seems to be mostly on the ridge top. The die back almost is mimicking a crown throwing treatment. Stem density is still pretty high and diameters still kind of small. Advanced white pine regen is thick in places along the north slope. Some steep terrain. still quite a bit of pole sized timber. Lots of epicormic branching. Evidence of fire. B.A. s 140, 120,	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		6	Log/Pole	10				
Red Pine		3	Log	12				
Red Oak		22	Log/Pole	10	82			
Jack Pine		2	Pole/Log	8				
Bigtooth Aspen		7	Pole/Log	9				
Black/Red (Hybrid) Oak		40	Log/Pole	10	82			
White Oak		20	Pole/Log	9				
Sub-Canopy Species		Density	Avg. Height	Size				
Oak (spp.)		Medium	5 - 10 feet	Sapling				
White Pine		Medium	Variable	Sapling				
Witch Hazel		Low	5 - 10 feet	Tall Shrub				
37	42220 - Natural Jack Pine	Poletimber Well	19.3	51	51-80	N/A	2012 - Military Board Land. Low oak component. Scattered canopy gaps are openings that are filling in. Some evidence of military training.2022 - Still quite a few patches of saplings.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		95	Pole/Sapling	6	51			
Red Pine		3	Log	12				
Red Oak		2	Log/Pole	10				
Sub-Canopy Species		Density	Avg. Height	Size				
Jack Pine		Low	Variable	Sapling				
Oak (spp.)		Low	5 - 10 feet	Sapling				
39	42220 - Natural Jack Pine	Sapling Well	133.0	15	Immature	N/A	2012 - Military Board Land. Jack Pine Soldiers sale, 61-098-04-01, completed 5/07. Good jack pine regeneration and clumps of mature jack pine left. Scattered clumps of mature trees. High levels of oak regeneration with only scattered jack pine regeneration. West part has significant red pine and jack pine in 4-6" DBH range and fair amount of oak advanced regeneration. Tail on eastern end is less than 1 acre but has more trees, mostly jack pine (J5) with some oak.2022- Jack pine is coming in good. Still a good mix of oak. Scattered log sized oak throughout. Trees are~15' tall.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern Pin Oak		15	Sapling	1	15			
White Oak		10	Sapling	1	15			
Red Pine		2	Log/Pole	10				
White Pine		3	Log/Pole	12				
Jack Pine		70	Sapling	1	15			
40	42220 - Natural Jack Pine	Poletimber Well	49.0	57	51-80	N/A	2012-Military Board Land. Variable stand with poor quality timber. Scattered openings. More black cherry than oak in understory with some pockets of pure black cherry sprouts. Rolling hills. 2022- Starting to see some jack pine fall out. Stand is in a bit of a valley. Oak looks in rough shape. White pine, jack pine and oak regenerating in canopy gaps from overstory die back. Lots of size classes.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		7	Pole/Log	8				
Red Pine		4	Log/Pole	10				
White Pine		4	Log/XLog	14				
Jack Pine		75	Pole	8	57			
Red Oak		10	Log/Pole	10				
Sub-Canopy Species		Density	Avg. Height	Size				
Black Cherry		Medium	5 - 10 feet	Sapling				
Oak (spp.)		Medium	5 - 10 feet	Sapling				
White Pine		Trace	< 5 feet	Sapling				
Jack Pine		Low	< 5 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
41	4124 - Red with White Oak	Sawtimber Well	8.9	80	81-110	N/A	2012 - Military Board Land. Part of Surveillance Oak sale, 61-060-04-01, thinned winter 05/06. Few stumps sprouted after thinning and there is little oak in understory other than seedlings. 2022- Some oak is establishing in the understory although most is still below the browse line. Overstory looks healthy.																																																									
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42	4310 - Pine, Oak Mix	Sapling Well	7.3	15	1-50	N/A	2012 - Military Board Land. Part of Surveillance Oak sale, 61-060-04-01, clearcut (with reserves) winter 05/06. Most of stand is regeneration -- red maple stump sprouts and oak 5-10' tall -- with some seedlings and overstory red pine, white pine and a few mature oak. Hilly topography. West fork is a valley.2022- Stand has regenerated well. Overstory pine looks healthy.																																																									
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44	4129 - Mixed Oak	Sawtimber Well	62.8	96	111-140	N/A	2012 - Military Board Land. Variable stand. Slight draw in west half of stand. Terrain is moderately hilly. Dense understory; parts will probably shift towards pine. Some parts are log-sized. Oak is moderate to good quality. 2022- East portion of the stand has some pockets of mortality, likely from the 2016 gypsy moth defoliation. Western portion of stand has a good pine component in the understory. Old railroad grade runs through the valley. Some scattered large red and white pine.																																																									
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46	4310 - Pine, Oak Mix	Poletimber Well	3.4	105	51-80	N/A	2012 - Military Board Land. Retention from County Road Oak sale, 61-063-04-01, stand 51 to south, cut spring/fall 2006. Oak is moderate quality but there is little advanced oak regeneration. Trace of red maple in canopy. 2022 - Stand appears to be declining. Stand is an oak and Jack pine mix.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
47	42250 - Pine, Oak	Sawtimber Medium	24.5	86	1-50	N/A	2012 - Pine/oak dominance alternated in original stand. Will probably shift towards white pine. 2017 - Military Board Land. Cut winter 2016-2017. Residual BA ~50 sf/acre; mix of pine and oak. 2022 - stand appears to regenerating well. Oak is still below the browse line. Mixed pine overstory with regenerating oak in the understory. Stand is in a slight valley, old Railroad grade present.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		15	Pole/Log	9		Red Maple	Low	< 5 feet	Sapling
Northern Pin Oak		15	Pole/Log	8		Bigtooth Aspen	Low	< 5 feet	Sapling
White Pine		20	Log/Pole	10	86	Jack Pine	Medium	< 5 feet	Sapling
Red Pine		50	Log/Pole/XLog	12	86	Oak (spp.)	Medium	< 5 feet	Sapling
						White Pine	Low	10 - 20 feet	Sapling
48	4124 - Red with White Oak	Sawtimber Well	9.1	100	51-80	N/A	2012 - Military Board Land. Thinned 12/2008, Military Oak Sale, 61-020-04-01. Good quality oak, mature trees are more red than white. Thinned less heavily than other stands that were recently thinned. Fair amount of 2-3" oak but it is more white than red. Parts are more of a pole stand than log. 2019: Part of Stand 76 that was not treated. 2022 - Medium quality oak, Some oak is regenerating after the thinning. Stand looks healthy and not much sign of decline.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		2	Log	12		Red Maple	Medium	10 - 20 feet	Sapling
Red Oak		45	Log/Pole	10	100	White Pine	Trace	Variable	Sapling
White Oak		33	Log/Pole	10	100	Red Pine	Low	Variable	Sapling
Bigtooth Aspen		5	Log/Pole	10		Oak (spp.)	Low	10 - 20 feet	Sapling
Northern Pin Oak		15	Log/Pole	10					
49	42250 - Pine, Oak	Sawtimber Poor	3.0	78	1-50	N/A	2012- Military Board Land. Stand is fairly open with lots of bare sand/soil. Scattered mature trees -- poor quality oaks and jack pine -- are growing on top of ridge. Slope receives heavy use as off-road hill climb area. Also heavily used by military. 2022- may want to leave the timber for soil stabilization.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		10	Log	10		White Pine	Low	Variable	Sapling
Northern Pin Oak		20	Log	14		Jack Pine	Low	Variable	Sapling
Jack Pine		70	Log/Pole	10	78	Oak (spp.)	Low	5 - 10 feet	Seeding
50	4130 - Aspen	Sapling Well	2.0	28		N/A	Military Board Land. Clearcut in 1994. Dense regeneration consisting of mostly aspen, some multistem red maple, and a fair number of oak seedlings in understory. Oak component is patchy. No advanced oak.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		18	Sapling	2		Oak (spp.)	Low	< 5 feet	Seeding
White Oak		2	Sapling	2					
Bigtooth Aspen		80	Sapling	3	28				
52	42250 - Pine, Oak	Sawtimber Poor	15.4	92	1-50	N/A	2012- Military Board Land. On a hill sloping up from southwestern edge. Trace of red pine in understory. Scattered openings, especially in southern end. Some good quality, large red oak in southwestern part. 2017- Cut winter 2016-2017. Left average residual ~40 sf/acre, mix of white pine and oak. 2022 - Getting some good oak and pine regen. Most of the Oak is still below the browse line. Looks promising.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		15	Pole/Log	8		White Pine	High	Variable	Sapling
White Oak		20	Pole/Log	8		Red Maple	Low	< 5 feet	Sapling
White Pine		60	Log/Pole	10	92	Oak (spp.)	Medium	< 5 feet	Sapling
Red Pine		5	Log	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
53	4310 - Pine, Oak Mix	Poletimber Well	3.8	45	51-80	N/A	2012 - Military Board Land. Mixed stand. Pine showing up in aerial photos is coming from dense white pine understory. 2022 - white pine is filling in where the oak has fallen out of the stand. Some pole sized oak mixed in the overstory.																																															
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54	4126 - White, Black, N. Pin Oak	Sawtimber Medium	23.0	92	81-110	N/A	2012 - Military Board Land. Part of County Road Oak sale, 61-063-04-01, thinned spring 2006. Heavy browse on sprouts. 2022 - Moderate Rolling terrain. Aspen and red maple establishing in the understory. Oak regen is slowly coming along but is not above the browse line yet. South end seems to be a little higher quality with less overstory density and the north has better stocking but more pin and white oak.																																															
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55	4129 - Mixed Oak	Sapling Well	19.8	15	Immature	N/A	2012 - Military Board Land. Unit 2 of Sharon Truck Oak sale, 61-064-04-01. Completed 5/2007. Good oak sprouts with scattered overstory red pine and oaks. Follows ridge. 2022 - Regen has come in pretty dense and heavy to oak.																																															
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57	4129 - Mixed Oak	Poletimber Well	54.4	45	81-110	N/A	2012- Military Board Land. Stand was cut in 1977. 2022 - Oak mixed pine stand with some dense pockets of white pine in the north end. Stand is converting to pole sized timber. Very well stocked. South end has a decent amount of aspen mixed in. South west corner has moderate to poor stocking. Gently rolling terrain.																																															
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58	4124 - Red with White Oak	Sapling Well	2.9	14	Immature	N/A	2012 - Military Board Land. Bigtooth aspen, harvested October 2008, part of Buckshot Aspen sale, 61-058-07-01. Some overstory oak, white pine, and red pine. 2022 - stand is regenerating well. A good mix of oak throughout.																																																										
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59	4139 - Aspen, Mixed Deciduous	Sapling Well	7.3	14	Immature	N/A	2012 - Military Board Land. Bigtooth aspen, harvested October 2008, part of Buckshot Aspen sale, 61-058-07-01. A few oak retained. Regeneration is good -- mostly red maple, oaks, and aspen. Lots of bracken fern. Scattered large white pine. 2022 - Oak looks like it was heavily browsed resulting in mostly aspen and maple. Regen has filled in well and trees are about 20' tall.																																																										
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60	4125 - Black, N. Pin Oak	Sawtimber Well	108.3	106	81-110	N/A	2012 - Military Board Land. Large, variable stand. Contains scattered conifer pockets and small openings, perhaps frost pockets. Moderately hilly terrain. Evidence of past fire. Little advanced oak regeneration. Some aspen mortality. 2022 - seeing some top die back and sparse individual mortality. Some areas have nice white pine regen in the understory. Some pockets of pole sized trees. Medium to poor quality, site seems to decline towards the west.																																																										
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62	4125 - Black, N. Pin Oak	Poletimber Well	69.6	45	51-80	N/A	2012 - Military Board Land. This stand was clearcut in 1977. Mixture of oak, red maple and aspen. Some of the oak is just reaching pole size and appears to have decent form. Stand contains scattered pockets of conifer and small openings. 2022 - Nice mix of oak and aspen. Hard to tell what dominates. Trees are putting on a lot of growth. Pocket of mortality in the east central portion of stand. specialist have been notified.																																																					
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63	4129 - Mixed Oak	Sawtimber Well	4.4	78	81-110	N/A	Military Board Land. This stand is at the edge of a younger stand and may be a remnant of that stand. Mostly poor quality oak with some aspen and red maple.																																																					
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64	4130 - Aspen	Sapling Well	6.6	28	Immature	N/A	2012 - Military Board Land. Stand was clearcut in 1994. Mostly bigtooth aspen with some oak and maple. Oaks are almost in overstory but are mostly suppressed. Occasional white pine. 2022 - stand is very well stocked and is putting on a lot of growth.																																																					
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65	4199 - Other Mixed Upland Deciduous	Sapling Well	14.6	14	Immature	N/A	2012 - Military Board Land. Part of Buckshot Aspen, 61-658-07-01, Clearcut 10/2008. A few oak left in the overstory. 2022 - stand has filled in well except the south east corner is still kind of sparse. Trees are about 20' tall.																																																					
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66	4199 - Other Mixed Upland Deciduous	Poletimber Well	78.4	38	51-80	N/A	2012 - Military Board Land. Clearcut in 1985. Oak and maple are mostly multi-stemmed/stump sprouts. Eastern third has more saplings. Scattered openings ~1/4 acre. Moderately hilly. 2022 - Stand is boarder line pole sized timber. Oak and aspen alternate as the dominate species. Pretty good quality timber and dense stocking. Oak seems to be more dominate in the northern part of the stand and on the hill tops.																																																					
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69	4124 - Red with White Oak	Sawtimber Poor	14.0	105	1-50	N/A	2012 - Military Board Land. Part of Military Oak Sale, 61-020-04-01, cut 12/2008. Green tree oak left. Significant red maple sprouts in places. Others are more open. Scattered oak seedlings but little advanced oak regen. Trace of white pine in the understory. Residual oak is good quality. Residual oak on north side of road is slightly larger. There used to be an opening typed as U0 in the middle of the stand, straddling the road. Evidence of past fire. 2022 - Oak regen is patchy and its growth appears stunted. Maple regen is well established and very thick in spots.																																											
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70	4123 - Red Oak	Sapling Well	39.2	37	51-80	N/A	2012 - Military Board Land. Clearcut in 1985. Lots of stump sprout clumps. Less aspen than other mixed stands in this compartment. 2022 - stand is converting to pole sized timber. Nice quality oak mixed with aspen and red maple.																																											
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73	4199 - Other Mixed Upland Deciduous	Sapling Well	5.5	28	Immature	N/A	Military Board Land. Clearcut in 1994. Mostly aspen and maple with some oak mixed in. Red maple is multi-stemmed.																																											
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74	330 - Low-Density Trees	Nonstocked	2.1			No	Military Board Land. Opening with scattered trees including mature oak, white pine, jack pine, and red maple. Many large stumps visible.																																											
75	330 - Low-Density Trees	Nonstocked	1.0			No	Military Board Land. Small opening with scattered trees and stumps. Mostly oak and black cherry seedlings and saplings with a few pole-sized oaks.																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
76	4199 - Other Mixed Upland Deciduous	Sapling Well	26.6	5	Immature	N/A	2012 - Military Board Land. Thinned 12/2008, Military Oak Sale, 61-020-04-01. Good quality oak, mature trees are more red than white. 2017 - Unit 1 of Quercus Maximus, 61-671-16-01, cut 3/2017. Cut all trees greater than 2" except red and white pine. Oak salvage or pre-salvage due to oak decline and heavy gypsy moth defoliation. 2022 - Rolling terrain. some Scattered pine left after the harvest. stand has regenerated well.																																																		
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78	4124 - Red with White Oak	Sawtimber Well	25.4	85	51-80	N/A	2012 - Military Board Land. Cut 12/2008, Military Oak Sale, 61-020-04-01. Good quality oak. Contains some aspen clones. Should be a nicely mixed stand. 2022 - Healthy oak stand. Variable maple regen along with some scattered pine regen.																																																		
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79	4199 - Other Mixed Upland Deciduous	Poletimber Well	147.8	45	51-80	N/A	2012 - Military Board Land. Clearcut in 1977. Good regeneration. Mostly aspen and oak with some maple. Some aspen has just reached pole size. Oak quality is surprisingly good. Scattered conifers including jack pine, white pine, and red pine, which are only a significant contributor to canopy in isolated pockets. Contains scattered openings with no trees or shrubs, up to 0.5 ac. Rolling terrain. 2022 - North end seems to be predominantly oak. Good heights and starting to put on some diameter. Some A6 areas throughout. Stand seems to be moving towards an oak cover type but its hard to tell what is dominate at this point.																																																		
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81	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.3	6	Immature	N/A	2016 - Cut summer 2016. Will hopefully come back to a mixture of aspen, oak and red maple. Military Board Land. 2022 - Regen is still a bit variable but appears to be filling in well. Trees are about 10' tall.																																																		
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82	330 - Low-Density Trees	Nonstocked	2.7			No	Military Board Land. Opening with scattered mature trees including aspen, white pine, and red pine. Very few seedlings.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
83	4126 - White, Black, N. Pin Oak	Sawtimber Well	31.7	92	111-140	N/A	2012 - Military Board Land. Variable stand. Some parts are more pole-sized than log. Denser than Stand 102. Larger trees are moderate quality. Scattered pockets of conifers and a few small openings. Mostly flat. BA by species: 1) pin oak 80, white oak 20, red oak 10, aspen 0. 2) 40, 20, 20, 40 3) 60, 20, 10, 30 2022 - Aspen component is declining. Seeing some individual mortality in the oak. Some pockets of die back in the southern part of the stand. A Conifer component in the understory in the Southwest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		25	Log/Pole	10	92	Red Pine		Low	5 - 10 feet	Sapling	
White Oak		20	Pole/Log	9		White Pine		Low	Variable	Sapling	
Bigtooth Aspen		15	Log	12		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Red Pine		5	Log	14		Red Maple		Low	>20 feet	Sapling	
Red Oak		35	Pole/Log	9	92						
84	4131 - Aspen, Oak	Sapling Well	8.6	28	Immature	N/A	2012 - Military Board Land. Clearcut in 1994. Dense regeneration including mostly bigtooth aspen, with some multistem red maple, and some oak. Oak tends to be more in understory than canopy. Little to no conifer. 2022 - East side of the stand is mostly real maple and oak, north part is predominantly aspen mixed, with white oak. Trees are putting on lots of height.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		30	Sapling	2		Oak (spp.)		Low	5 - 10 feet	Sapling	
White Oak		5	Sapling	2							
Red Oak		15	Sapling	3							
Bigtooth Aspen		50	Sapling	3	28						
85	4310 - Pine, Oak Mix	Poletimber Well	6.0	45	51-80	N/A	2012 - Military Board Land. Cut in 1977. Fairly dense white pine just starting to reach pole size. Most significant understory component is also white pine. Canopy also includes some red oak and stump sprout red maple. Sizeable openings are scattered throughout the stand. Old railroad grade runs through western half. 2022 - Nice mix of pine and oak. putting on good height and diameter.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		2	Sapling	3		White Pine		Medium	>20 feet	Sapling	
Red Oak		25	Pole/Sapling	5	45	Red Maple		Low	10 - 20 feet	Sapling	
Red Maple		5	Sapling/Pole	4							
White Oak		5	Sapling/Pole	4							
Bigtooth Aspen		5	Pole/Sapling	6							
White Pine		55	Pole/Sapling	7	45						
Red Pine		3	Pole	7							
87	4199 - Other Mixed Upland Deciduous	Sapling Well	63.1	14	Immature	N/A	2012 - Military Board Land. Part of Raven Aspen Sale, 61-059-04-01, completed 2/2008. Lots of red maple and some aspen saplings and oak seedlings. A few 2-4" DBH red maple and scattered mature red pine, jack pine and white pine in overstory. 2022 - stand has filled in nicely with mix of species. Moderately rolling terrain. Regen is 20-30' tall. South central part of the stand has less stocking (moderate)				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		10	Sapling	1	14	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
White Pine		3	Pole/Log	8							
Red Pine		2	Pole/Log	8							
Bigtooth Aspen		30	Sapling	2	14						
Red Oak		15	Sapling	1	14						
Red Maple		40	Sapling	1	14						
89	42110 - Planted Red Pine	Sapling Well	18.5	4	Immature	N/A	2016 - Cut summer 2016. Military Board Land. Flat terrain to rolling hills. Planted spring 2018. Regen survey 10/25/2018/ Generally pretty good survival and minimal competition. Scattered overstory WP & RP. Regen survey by contract 9/21/20. 13% mortality, 744 surviving TPA, 86% FTG. Primary competition = JP. No release or replant necessary. Comments: a few untrenched pockets, some standing timber. 2022 - planted pine is doing well, a little competition but is still mostly free to grow. Moderate rolling terrain.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		5	Sapling	1							
White Pine		5	Log/Pole	11							
Northern Pin Oak		10	Sapling	1							
Red Pine		80	Sapling	1	4						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
90	42250 - Pine, Oak	Sawtimber Medium	11.3	87	51-80	N/A	2017 - Military Board Land. Cut winter 2016-2017. Added additional dead oak volume. Original stand had more aspen, oak and scattered openings in the north and more white pine to the south. 2022 - Oak and white pine are regenerating well in the canopy gaps.																																										
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91	4199 - Other Mixed Upland Deciduous	Sapling Well	38.1	14	Immature	N/A	2012 - Military Board Land. Part of Raven Aspen sale, 61-059-04-01. cut 2/2008. Mostly red maple stump sprouts, 5-10' tall, with some oak seedlings and aspen saplings. 2022 - Stand is filling in nicely. Stocking is a bit on the low side in the Southeast part of the stand but is otherwise well stocked.																																										
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92	4119 - Mixed Northern Hardwoods	Sapling Medium	13.9	5	Immature	N/A	2017 - Military Board Land. Part of stand that will be left to regenerate naturally. Part of Unit 5 of Quercus Maximus, 61-671-16-01, cut 3/2017. Cut all trees greater than 2". Oak salvage or pre-salvage due to oak decline and heavy gypsy moth defoliation. Retention left as 2 oak islands at eastern end. 2022 - Regen is coming along pretty well. Some areas still haven't filled in yet. Mostly red maple stump sprouts.																																										
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93	320 - Upland Shrub	Nonstocked	1.1		Unspecified	No	Military Board Land. Small opening at south end of recent clearcut. Scattered trees and stumps but mostly open. Contains oak seedlings and saplings and a few aspen saplings.																																										
94	4119 - Mixed Northern Hardwoods	Sapling Medium	19.2	6	Immature	N/A	2012 - Military Board Land. Cut summer 2016. Stand was harvested due to oak mortality /decline. 2022 - Stand is slowly regenerating. Mostly to red maple and cherry. Scattered pole/ Log sized pine left. Oak saplings are heavily browsed. Moderate rolling terrain.																																										
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95	4124 - Red with White Oak	Sawtimber Well	2.7	92	111-140	N/A	2012 - Military Board Land. Mixed oak stand. Mostly red oak with some white. Decent quality, size and volume. Fair amount of red maple in understory and getting into canopy, sapling to pole size. Very little advanced oak regeneration. Aspen is starting to die out. 2022- stand looks to be retention for the stand 94 harvest. Some individual tree mortality.																																																			
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96	4310 - Pine, Oak Mix	Sapling Well	4.3	6	1-50	N/A	2017 - Military Board Land. Cut winter 2016-2017. Added additional volume for oak salvage. Should come back to mix of oak and pine. 2022 - Stand is regenerating well to a mix of oak and jack pine. Scattered pole /Log sized oak and pine left from harvest.																																																			
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97	4199 - Other Mixed Upland Deciduous	Sapling Well	13.7	6	Immature	N/A	2016 - Cut summer 2016. Changed thinning treatment to clearcut after discovering significant oak mortality due to oak decline. Hopefully come back to mix of aspen, oak, white pine, and red maple. Hilly terrain. Military Board Land. 2022 - stand is regenerating well. Mostly a red maple and oak mix.																																																			
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98	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	24.3	3	Immature	N/A	2012-Military Board Land. Quercus Maximus, 61-671-16-01, cut 3/2017. Oak salvage or pre-salvage due to oak decline and heavy gypsy moth defoliation. Trenched and planted. Some concerns about survival of planting stock so do a second regen check before making decision to plant supplemental seedlings or restart. 2022- Stand is on rolling terrain. Planted pine appears to be doing well. Some pockets of oak regen. Thick deciduous competition in the Southern 1/3 of the Stand.																																																			
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101	42220 - Natural Jack Pine	Poletimber Well	1.5	74	51-80	N/A	Mostly Military Board and some Lease Land. Mostly jack pine with scattered poor quality log/pole oak in canopy. Jack pine ranges from 4-16". Oak advanced regeneration is patchy, heavy in places. Some jack pine mortality. Most of red and white pine is south of Military Road. Trace of red maple in canopy. Scattered small openings, especially along western edge south of Military Road, or areas of mortality that have since regenerated.																																																			
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102	42220 - Natural Jack Pine	Poletimber Well	56.8	74	51-80	N/A	2012 - Mostly Military Board and some Lease Land. Mostly jack pine with scattered poor quality log/pole oak in canopy. Jack pine ranges from 4-16". Oak advanced regeneration is patchy, heavy in places. Some jack pine mortality. Trace of red maple in canopy. 2022 - Quite a few pockets of mortality, especially in the western part of the stand. These areas are filling in with young jack and white pine.																																																				
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105	4199 - Other Mixed Upland Deciduous	Sapling Well	62.7	16	Immature	N/A	2012- Stand was harvested in 2006. 2022- stand is regenerating well. Most of the trees are 10-20' tall. North end has more of an oak component.																																																				
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