

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61230

Entry Year: 2027

Acreage: 1,910

County: Kalkaska

Management Area: Camp Grayling

Stand Examiner: Steve Crigier

Legal Description:

T26N R5W Sections 25, 26, and 27

Identified Planning Goals:

This compartment is heavily used by Camp Grayling for training. There is several training areas and various infrastructure through out the compartment . Much of the other area is heavily used for in-woods training so some level of canopy cover is desired. As such, managing even-age cover types by a typical clearcut with 2" spec is not always desirable. Much of the oak resource in this compartment is, however, reaching maturity and showing signs of decline and/or mortality. In addition, deer populations seem unusually high which will cause additional challenges to regenerating oak. Many cuts completed since the last inventory have started to help balance the oak age classes and might shift cover types from a pure oak stands to upland mixed deciduous stands. Treatments in this year of entry should further attempt to balance age classes and develop oak regeneration while accommodating military training needs.

Soil and topography:

Most of the compartment is Grayling sand with lesser amounts of Croswell sand and Au Gres sand in the northwestern corner. The seeps and springs in Section 27 are on Au Sable-Bowstring mucks. The terrain in this compartment is generally flat in the northwestern part and hillier farther south and east. Some of the hills are large enough to be named: Smith Hill, Esler Hill, Grube Hill, Lamb Hill and Baker Hill.

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

These three sections are all State-owned land with the exception of one 40-acre parcel: the NWNW of Section 27. This land is administered by the Michigan Department of Military and Veterans Affairs, which has a timber management agreement with the Forest Resources Division. This arrangement is referred to as Military Board Land. Other Military Board Land surrounds this compartment to the north, east and south. West of the compartment, there are numerous year-round and seasonal dwellings along Portage Creek and King Roads and the Manistee River corridor. Several large underground pipelines run through a single north-south corridor in Section 26.

Unique Natural Features:

Stand 33 near the junction of Portage Creek and King Roads in Section 27 contains a large area of springs and seeps that converge to form Spring Creek, a small tributary of the Manistee River. There are a couple of small kettle depressions in Section 26, one of which holds water and is known as Kings Pond. There are no records of threatened or endangered species within the compartment although there is potential for Massasauga rattlesnake.

Archeological, Historical, and Cultural Features:

There is a record of an archaeological site(s) in Section 26.

Special Management Designations or Considerations:

The entire compartment is Military Board Land. As a tributary of the Manistee River, Spring Creek is protected by Natural Rivers designation.

Watershed and Fisheries Considerations:

The headwaters of Spring Creek originate in the southwest corner of Section 27. Spring Creek is a small tributary of the Manistee River, with naturally reproducing populations of brown and brook trout.

Wildlife Habitat Considerations:

Featured wildlife species for this management area include: American woodcock, Eastern massasauga rattlesnake, pileated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, wild turkey and white-tailed deer. Some of the most significant wildlife management issues will be maintenance of young forest and large open grassland complexes, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components. [To be edited by WLD.]

Mineral Resource and Development Concerns and/or Restrictions

In this compartment, the State only has surface rights in Section 26 and the NE¼ of Section 27. Surface sediments consist

of ice-contact and glacial outwash sand and gravel and postglacial alluvium and dune sand. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Mississippian Marshall Sandstone and Coldwater Shale. The Marshall was previously used as a building stone. No gravel pits are located in the area, but there should be potential on the uplands. The compartment is located 2-3 miles north of the 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 currently pending leases in Section 27.

Vehicle Access:

There is a rather well-developed road network throughout the compartment although access to some areas is restricted by the military. Howe Road (open year-round) runs along the northern edge of the compartment. A "tank trail" for military training runs more-or-less parallel to Howe Road through Section 27, but the military does not train much with tracked vehicles anymore.

Survey Needs:

There are no survey needs at this time. Corners on the private property boundary were established since the last inventory.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within this compartment. It is common to find deer hunting camps in the fall of the year. Snowmobilers use the pipeline corridor during the winter. The 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:

There is significant wildfire potential in the jack pine stands in the western part of this compartment. A large portion of the compartment burned in May 2009 as part of the Range 9 fire. Wildfire potential will increase as this jack pine matures. The military has purchased a Fecon mulching machine to put in firebreaks adjacent to the ranges to help stop the spread of fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

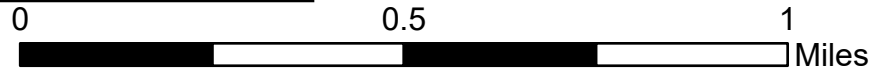
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 61230
T26N R05W 25-27
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Camp Grayling
YOE: 2027
Acres: 1,910 GIS Calculated
Examiner: Steve Crigier
Date Exported: 1/12/2026
Map Phase: Post Maps



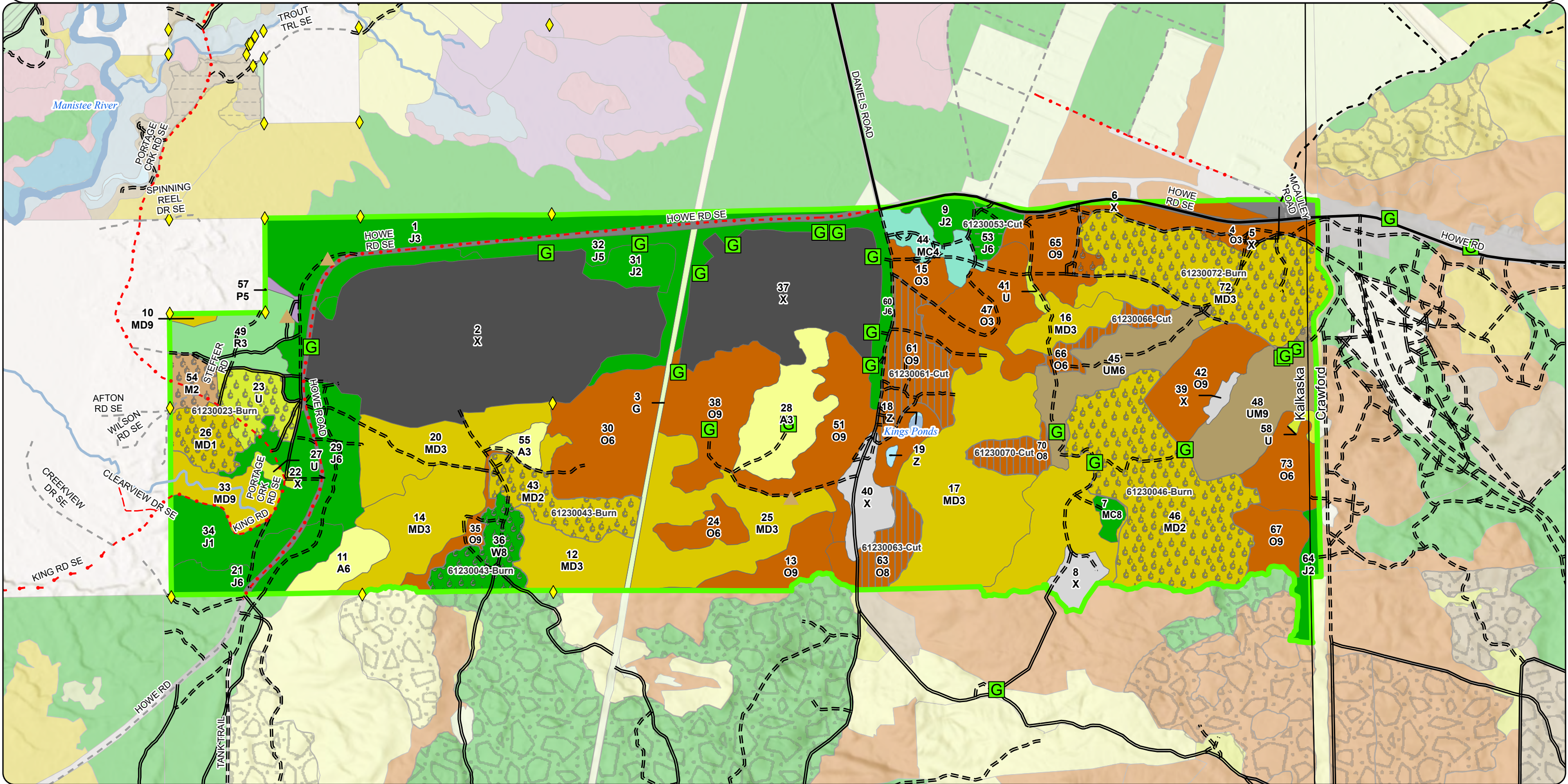
- Survey Grade Corners
- Berm
- Gate

- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road

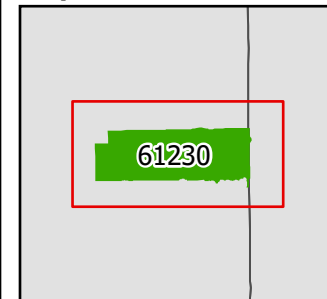
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Shelterwood
- Overstory Removal

- Prescribed Burn
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers

- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees



Stand Boundary Map



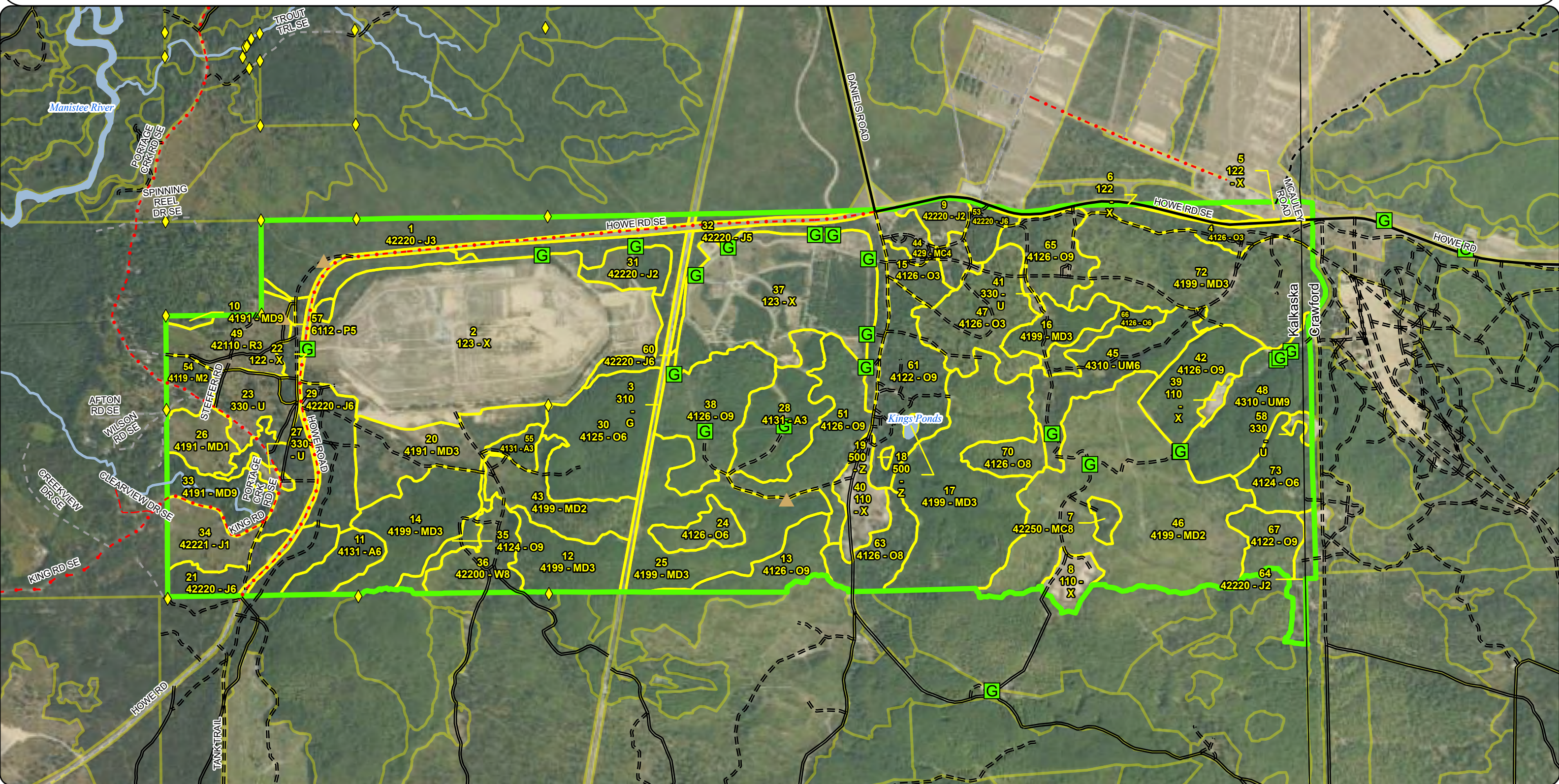
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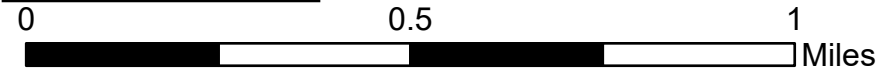
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Special Conservation Areas & Site Conditions Map

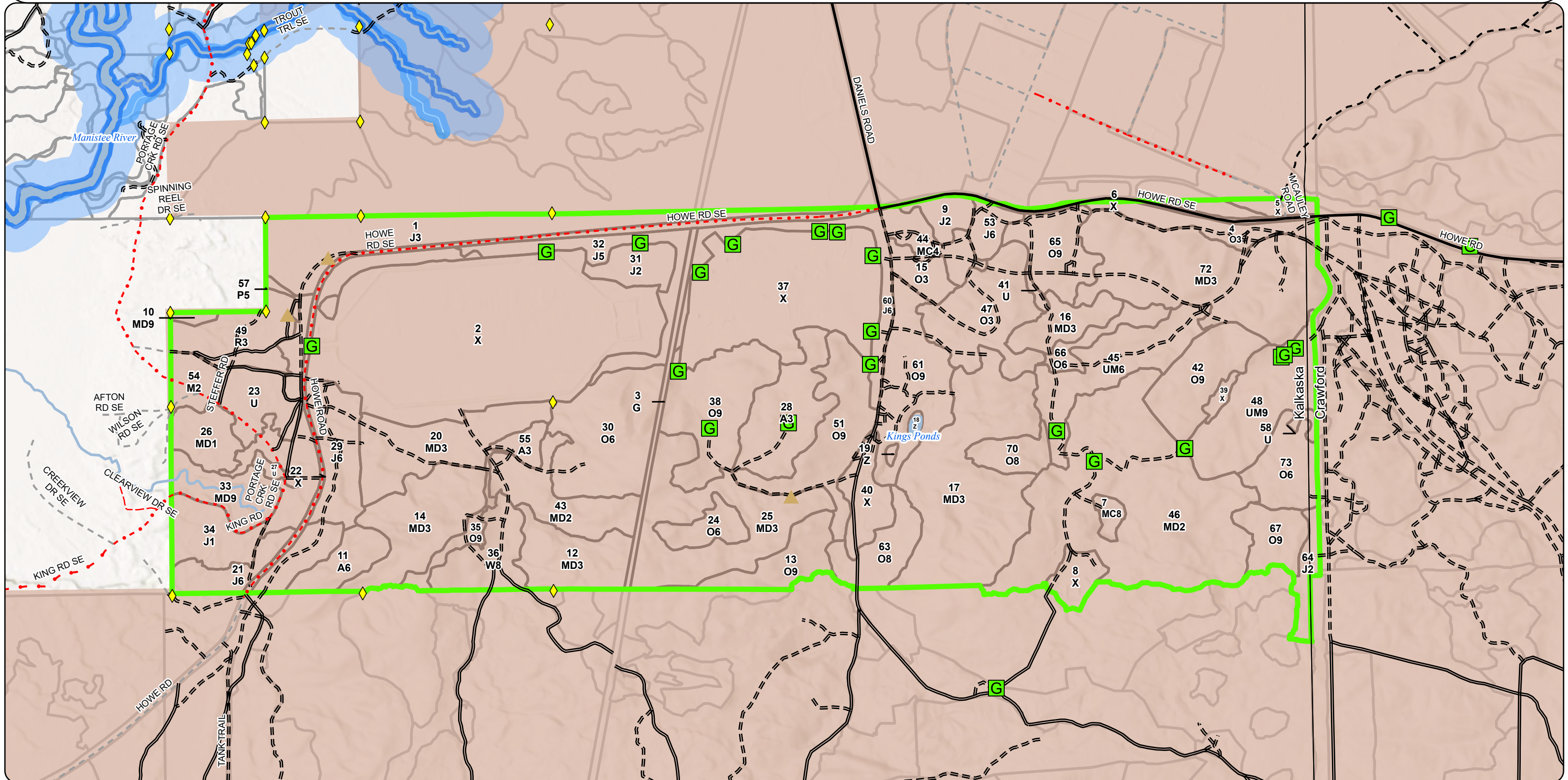
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- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



Report 1 – Total Acres by Cover Type and Age Class

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	0	43	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	21	82	23	0	0	111	31	0	0	0	0	0	0	0	0	0	0	268
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	281	242	42	0	0	0	0	0	2	0	20	0	0	0	0	0	0	587
Natural Mixed Pines	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Oak	0	42	32	0	0	0	75	0	0	20	73	158	12	0	0	0	0	21	431
Red Pine	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84
Urban	359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	359
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Total	397	372	399	76	15	0	186	57	4	22	73	178	12	0	0	0	0	120	1909

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 230
Total Compartment Acres: 1,910

Commercial Harvest - 148
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	9	0	0	9
Oak	0	0	0	0	70	0	0	0	0	70
Total	0	0	0	0	70	0	9	0	0	79

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	79	0	0	0	291	0	0	0	0	369
Next Step	0	0	0	0	0	0	361	0	0	361
Total	79	0	0	0	291	0	361	0	0	730

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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:

23	61230023-Burn	47.7	330 - Low-Density Trees	99			Burn	Prescribed Burn	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Moderate to high intensity burn to stimulate native grasses and to set back woody encroachment.

Specs:

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable

Regen:

Other Private property to the west. Also, check on EMR restrictions for this area as it may impact the timing of the burn.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

43	61230043-Burn	51.3	4199 - Other Mixed Upland Deciduous	2	7	1-50	Burn	Prescribed Burn	4122 - Oak, Pine	Cutting Record	No
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Prescription Moderate to high intensity burn in late spring or early summer. Objective is to top kill the maple and aspen competition reducing its composition in the stand by 20%. Retain 90% of the overstory pine and oak.

Specs:

Next Step Monitoring, Habitat Monitoring

Treatments:

Acceptable oak, pine, cool season grasses.

Regen:

Other Coordinate with Camp Grayling Environmental about timing and site objectives. Site is on moderate terrain. Might be able to expand this treatment to the south in stand 24 of compartment 131.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

46	61230046-Burn	104.1	4199 - Other Mixed Upland Deciduous	2	6	Immature	Burn	Prescribed Burn	4122 - Oak, Pine	Planting Record	No
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Prescription Moderate to high intensity burn in late spring-early summer. Objectives are to top kill the aspen and red maple competition and reduce its composition in the stand by 20%. Also to stimulate the oak regeneration that is present to get it about the deer b

Specs:

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable oak, pine

Regen:

Other Hilly terrain on Military land. Will need to coordinate with CG Environmental and Range Control.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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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
53 61230053-Cut	8.5	42220 - Natural Jack Pine	6	60	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
<u>Prescription</u> Remove the jack pine over story, leave all white oak. Don't cut any oak less than 6" in diameter. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Apply Military training timing restriction, oak wilt, low stump and chipping specification. EMR restriction may need to be applied. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
61 61230061-Cut	31.6	4122 - Oak, Pine	9	106	51-80	Harvest	Shelterwood	4122 - Oak, Pine	Cutting Record	No
<u>Prescription</u> Shelter wood harvest to encourage the understory development. Leave all red and white pine and mark 10-20sq ft of oak to leave, preferably white oak. Protect advanced regen. Also consider leaving the aspen and red maple to avoid sprouting. Don't cut <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> oak, pine <u>Regen:</u> <u>Other</u> Apply military training timing restriction, oak wilt, chipping and low stump specifications. A post harvest burn may be advantageous to encourage oak regeneration and reduce aspen and maple competition. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
63 61230063-Cut	16.1	4126 - White, Black, N. Pin Oak	8	99	51-80	Harvest	Shelterwood	4122 - Oak, Pine	Cutting Record	No
<u>Prescription</u> Shelter wood harvest to encourage the understory development. Leave all red and white pine and mark 10-20sq ft of oak to leave, preferably white oak. Protect advanced regen. Also consider leaving the aspen and red maple to avoid sprouting. Don't cut <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> oak, pine, <u>Regen:</u> <u>Other</u> Long term MO of oak/pine. Apply military time restriction, oak wilt, chipping and low stump specifications. A post harvest burn might be advantageous for oak regeneration and to reduce maple and aspen competition. Review Arch hit on site. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
66 61230066-Cut	10.5	4126 - White, Black, N. Pin Oak	6	91	111-140	Harvest	Shelterwood	4122 - Oak, Pine	Cutting Record	No
<u>Prescription</u> Shelter wood harvest to encourage the understory development. Leave all red and white pine and mark 10-20sq ft of oak to leave, preferably white oak. Protect advanced regen. Also consider leaving the aspen and red maple to avoid sprouting. Don't cut <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> oak, pine & aspen <u>Regen:</u> <u>Other</u> Apply military training timing restriction, oak wilt, chipping and low stump specifications. A post harvest burn may be advantageous to encourage oak regeneration and reduce aspen and maple competition. EMR restriction may apply. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
70 61230070-Cut	12.0	4126 - White, Black, N. Pin Oak	8	116	51-80	Harvest	Shelterwood	4122 - Oak, Pine	Cutting Record	No
<u>Prescription</u> Shelter wood harvest to encourage the understory development. Leave all red and white pine and mark 10-20sq ft of oak to leave, preferably white oak. Protect advanced regen. Also consider leaving the aspen and red maple to avoid sprouting. Don't cut <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> oak, pine, aspen <u>Regen:</u> <u>Other</u> Apply military training timing restriction, oak wilt, chipping and low stump specifications. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
72 61230072-Burn	87.5	4199 - Other Mixed Upland Deciduous	3	6	1-50	Burn	Prescribed Burn	4122 - Oak, Pine	Cutting Record	No
<u>Prescription</u> Moderate to high intensity burn in late spring-early summer. Objectives are to top kill the aspen and red maple competition and reduce its composition in the stand by 20%. Also to stimulate the oak regeneration that is present to get it about the deer b <u>Specs:</u> <u>Next Step</u> Monitoring, Prescribed Burn <u>Treatments:</u> <u>Acceptable</u> oak, pine <u>Regen:</u> <u>Other</u> Hilly terrain on Military land. Will need to coordinate with CG Environmental and Range Control. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Total Treatment 369.3
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 230
Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available	Dominant Site Conditions	1B	3F	3J	5E
58	58	0	0	Aspen				
9	9	0	0	Herbaceous Openland				
206	133	0	73	Jack Pine		73		
27	27	0	0	Low-Density Trees				
2	0	0	2	Lowland Aspen/Balsam Poplar			2	
499	471	0	28	Mixed Upland Deciduous			20	8
4	0	0	4	Natural Mixed Pines				4
11	11	0	0	Northern Hardwood				
338	246	0	93	Oak	47	30	10	5
28	28	0	0	Red Pine				
15	15	0	0	Upland Conifers				
74	40	0	35	Upland Mixed Forest		35		
350	346	0	4	Urban		3		1
2	2	0	0	Water				
24	24	0	0	White Pine				
1,647	1,409		238	Total Forested Acres	47	141	32	18
	86%		14%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	20	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers buffer for unnamed tributary of Manistee River.								
2	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Reserve islands from Lamb Hill Oak, 61-68-07-01.								

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 230
Year of Entry: 2027

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Esler Hill Aspen/Oak, 61-603-07-01.							
4	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	15	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Behind military training area fence. They don't want any timber harvests in this training area.							
5	Unavailable	3F: Military easement/lease	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer strip for FOB.							
7	Unavailable	3F: Military easement/lease	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for training area.							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: St63 LTR							
11	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 230
Year of Entry: 2027

12	Unavailable	3F: Military easement/lease	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer zone around range. Trees might have ammunition in them.							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Left buffer along training area per military request.							
21	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	32	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Behind military training area fence. They don't want any timber harvests in this training area.							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	10	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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
1	42220 - Natural Jack Pine	Sapling Well	73.1	14	Immature	N/A	2015- Burned in Range 9 fire, May 2010. Salvage timber sale, Range 9 Fire Salvage, 61-633-10-01, cut winter 2011. Dense jack pine regeneration, less than 3 feet tall. Some veins of aspen from wet stand to the north.																																							
<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>10</td><td>Sapling</td><td>1</td><td>14</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>5</td><td>Sapling</td><td>1</td><td>14</td></tr><tr><td>Jack Pine</td><td>75</td><td>Sapling</td><td>2</td><td>14</td></tr><tr><td>Black Cherry</td><td>10</td><td>Sapling</td><td>2</td><td>14</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	1	14	Black/Red (Hybrid) Oak	5	Sapling	1	14	Jack Pine	75	Sapling	2	14	Black Cherry	10	Sapling	2	14															
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Black Cherry	10	Sapling	2	14																																										
2	123 - Other High Intensity Urban	None	199.3			No	Fenced in military training facility .FOB 29																																							
3	310 - Herbaceous Openland	None	8.9			No	Corridor for multiple underground pipelines.																																							
4	4126 - White, Black, N. Pin Oak	Sapling Well	22.1	16	1-50	N/A	2025- areas of pole timber and some spots with a more dense Canopy of Log sized trees2015- Cut October 2010 as part of Baker Hill Jack, 61-645-07-01, Lutke, removed jack pine, aspen and red maple. Poor quality stand. Opening at east end maintained by Camp Grayling.																																							
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5	122 - Road/Parking Lot	None	5.6			No	Entrance to Ranges 8 and 9. Includes some small outbuildings. Mowed and maintained open by Camp Grayling.																																							
6	122 - Road/Parking Lot	None	6.0			No	Howe Road.																																							
7	42250 - Pine, Oak	Sawtimber Medium	4.2	71	51-80	N/A	2025 Small patch of red pine in a small bowl-shaped depression with an opening in the middle. Trees are open-grown. Military training infrastructure present.																																							
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8	110 - Low Intensity Urban	None	10.0			No	Range 21. Camp Grayling has been doing some work with Fecon in this area to open up roads and clear edges of this opening. Continues in Compartment 131 to the south.																																							
9	42220 - Natural Jack Pine	Sapling Medium	8.9	16	Immature	N/A	2025- Stand is filling in, east side is still sparsely stocked.2015-Cut October 2010 as part of Range 9 and Howe Road Fire Salvage, 61-678-10-02, Lutke, clearcut with 2" spec except oak and cherry. Good jack pine regeneration and oaks are starting to get above the browse line. A few pole-sized oaks left in the overstory.																																							
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10	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.1	81	81-110	N/A	2015 -Small stand with challenging topography, sandwiched between two small ridges. Burned in Range 9 fire, May 2010. Relatively high mortality and CWD.																																																							
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11	4131 - Aspen, Oak	Poletimber Well	15.1	38	51-80	N/A	2025- Scattered mature oak and red pine overtop the aspen. Pole sized oak present, regenerated with the aspen. Pine and oak establishing in the understory. 2015 -Most of stand is on slope of steep ridge with northwest aspect. Hill might be an operational challenge. Well-stocked, good quality aspen (4-8" dbh).																																																							
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12	4199 - Other Mixed Upland Deciduous	Sapling Well	28.7	18	Immature	N/A	2025- Moderate terrain. High stem density of regen. 2015-Cut October 2008 as part of Smith Hill Oak, 61-602-07-01, Mid-Michigan Logging, clearcut with 2" spec. There were problems with bullets in the trees that were not picked up by metal detectors. Sale notes state that this 2007 sale was set up before retention guidelines went into effect. Heavy browse.																																																							
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13	4126 - White, Black, N. Pin Oak	Sawtimber Well	21.1	97	81-110	N/A	2025- Some individual mortality. White pine and some oak developing in the understory in areas. 2015- Rolling hills with mostly southern or eastern aspect. More white pine in understory than other oak stands in this compartment. Red maple in understory is starting to reach pole size. Heavy browse. Some oak mortality. Oak quality improves with higher elevations.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4199 - Other Mixed Upland Deciduous	Sapling Well	42.0	18	Immature	N/A	2025- The ridge seems to have a heavier component of oak. The flats or west end more of an aspen and red maple mix. clone of big tooth in the far north east corner. 2015- Cut October 2008 as part of Smith Hill Oak, 61-602-07-01, Mid-Michigan Logging, clearcut with 2" spec. 54 scattered oaks and a few white and red pine were left. There were problems with bullets in the trees that were not picked up by metal detectors. Sale notes state that this 2007 sale was set up before retention guidelines went into effect. Disappointing amount of aspen in regeneration mix. Heavy browse on the oaks. Rather steep ridge.
Canopy Species		% Cover	Size Class		DBH	Age	
Red Maple		20	Sapling		2	18	
Bigtooth Aspen		15	Sapling		2	18	
Black/Red (Hybrid) Oak		43	Sapling		2	18	
Black/Red (Hybrid) Oak		2	Log		12	128	
Jack Pine		5	Sapling		2		
Black Cherry		15	Sapling		2	18	
15	4126 - White, Black, N. Pin Oak	Sapling Well	10.1	16	Immature	N/A	2025- Good stem density. Trees are 20-30' tall. 2015- Cut October 2010 as part of Baker Hill Jack, 61-645-07-01, Lutke, clearcut except for a handful of oak and red pine trees left for wildlife. Good oak regeneration. Some is getting above browse line but not the red maple.
Canopy Species		% Cover	Size Class		DBH	Age	
Red Maple		10	Sapling		2	16	
White Oak		20	Sapling		2	16	
Black/Red (Hybrid) Oak		45	Sapling		2	16	
Jack Pine		25	Sapling		2	16	
16	4199 - Other Mixed Upland Deciduous	Sapling Well	16.4	18	Immature	N/A	2025- Oak is starting to develop especially on hill top. Thick stem density. 2015-Cut December 2008 as part of Lamb Hill Oak, 61-618-07-01, Muma, clearcut with 2" spec. Oaks are mostly suppressed by red maple and aspen. Heavy browse.
Canopy Species		% Cover	Size Class		DBH	Age	
Red Maple		30	Sapling		2	18	
White Oak		15	Sapling		1	18	
Bigtooth Aspen		30	Sapling		2	18	
Black/Red (Hybrid) Oak		25	Sapling		2	18	
17	4199 - Other Mixed Upland Deciduous	Sapling Well	94.2	18	Immature	N/A	2025- Stand has filled in well. Good oak component. Some pine seeding in as well. 2015-Cut December 2008 as part of Lamb Hill Oak, 61-618-07-01, Muma, clearcut with 2" spec. Left 4 reserve areas of mature timber (1-2 acres each). Regeneration less thick than some other stands of this age. Rolling hills.
Canopy Species		% Cover	Size Class		DBH	Age	
Red Maple		25	Sapling		2	18	
White Oak		15	Sapling		1	18	
Bigtooth Aspen		25	Sapling		2	18	
Black/Red (Hybrid) Oak		30	Sapling		2	18	
White Pine		5	Sapling		2	18	
18	500 - Water	None	1.1			No	Small kettle lake with relatively steep banks.
19	500 - Water	None	0.8			No	Small kettle depression with relatively steep sides.
20	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	42.3	26	Immature	N/A	2025- Jack pine filling in at the far northend of the stand. Northeast part of the stand was not apart of the timber sale but is roughly the same age and species composition. 2015- Cut winter 1998-1999 as part of Smith Hill, 61-126-98-01. Rolling hills. Left a clump of trees on a steep hill. Heavy browse but many oaks are above browse now. Oak seems to be relatively poor quality.
Canopy Species		% Cover	Size Class		DBH	Age	
Red Maple		10	Sapling		2	26	
Black/Red (Hybrid) Oak		50	Sapling		3	26	
Jack Pine		20	Sapling		3	26	

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																				
21	42220 - Natural Jack Pine	Poletimber Well			27.1	54	51-80	N/A	2025- oak continuing to develop in the understory. Some remeant red pine scattered in the overstory.2015-Regenerated after a fire. Very dense jack pine just reaching pole size. A few scattered oaks in the overstory mostly along the eastern edge where stand transitions into oak type. Very few scattered oak saplings under jack pine.																																				
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22	122 - Road/Parking Lot	None			21.4			No	Howe Road.																																				
23	330 - Low-Density Trees	None			20.6			Yes	Opening that is filling in with shrubby cherry and jack pine. Contains scattered pockets of merchantable jack pine and aspen that, combined with nearby stands, may help make an opening maintenance prescription a commercial treatment.																																				
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24	4126 - White, Black, N. Pin Oak	Poletimber Well			11.8	85	81-110	N/A	2025- A couple pockets of mortality2015-Rolling hills. Mostly poles on the verge of a log stand. Hold until surrounding stands are older.																																				
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25	4199 - Other Mixed Upland Deciduous	Sapling Well			60.5	18	Immature	N/A	2025- Rolling terrain. High stem density. 2015-Part of Esler Hill Aspen/Oak, 61-603-07-01. Cannot file sale notes. Includes 2 retention islands. Red maple appears to be doing the best of the species within the regeneration mix.																																				
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26	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor			16.3	6	Immature	N/A	2025- Regen is struggling to establish but seeing some oak and jack pine. 2020: 40 Laps Mix, 61-653-17. Cut fall 2019. Cut all trees >2" except white oak and white pine.2015: Variable stand. Not typed out separately in Ol. Generally poor quality and variable stocking. Very heavy browse on red maple and oaks in understory.																																				
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27	330 - Low-Density Trees	None			2.9			No	2015-Opening that is filling in with shrubby cherry and jack pine.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
28	4131 - Aspen, Oak	Sapling Well	36.6	18	Immature	N/A	High stem density. Oak growing under the aspen and maple. 2015-Part of Esler Hill Aspen/Oak, 61-603-07-01. Cannot find sale notes. Aspen is doing well. Aspen and red maple are both taller than oaks. Rolling hills. Part of stand is fenced.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		30	Sapling	2	18					
White Oak		10	Sapling	1	18					
Bigtooth Aspen		40	Sapling	2	18					
Black/Red (Hybrid) Oak		20	Sapling	1	18					
29	42220 - Natural Jack Pine	Poletimber Well	57.8	58	Unspecified	N/A	2025- Oak established in understory. Jack pine also establishing in the canopy gaps. 2015-Patchy stand with scattered small openings. Moderate amount of jack pine mortality. Some advanced oak regeneration but heavy browse on shorter stems. Lots of roads and tank trail.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		10	Log/Pole	10	58	White Oak		Trace	10 - 20 feet	10 - 20 feet
White Pine		2	Log/Pole	10	58	Black/Red (Hybrid) Oak		Low	10 - 20 feet	10 - 20 feet
Red Pine		2	Log/Pole	10		Jack Pine		Low	Variable	Variable
Jack Pine		86	Pole/Sap/Log	8	58					
30	4125 - Black, N. Pin Oak	Poletimber Well	52.1	50	81-110	N/A	2025- Stand has developed into a nice stand of primarily Oak. clones of aspen. 2015- Clearcut in 1976. Still mostly saplings but starting to become a pole stand. Some good quality oak poles. There are scattered residual oak log trees. More white pine in the understory along the northern edge/slope. Some oak mortality. Seems like high deer presence. Rolling hills.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	6	50	White Oak		Trace	5 - 10 feet	5 - 10 feet
White Oak		15	Pole/Sapling	5	50	Black/Red (Hybrid) Oak		Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		20	Pole	7	50	White Pine		Trace	10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak		45	Pole/Sapling	7	50	Witch Hazel		Low	5 - 10 feet	5 - 10 feet
White Pine		3	Pole	8						
Red Pine		7	Pole	8						
31	42220 - Natural Jack Pine	Sapling Medium	13.6	21	Immature	N/A	2015-Forested area within FOB. Cleared in summer 2005 with rest of FOB. Some oaks underneath but heavily browsed.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		90	Sapling	2	21					
Black Cherry		10	Sapling	1						
32	42220 - Natural Jack Pine	Poletimber Medium	26.0	58	81-110	N/A	2025-2015-Buffer strip between FOB and Howe Road and/or pipeline. Parts are more like J6 and parts are more like J3. No evidence of red pine planted parallel to road (mentioned in previous inventory notes).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		2	Pole	7		Black Cherry		Low	5 - 10 feet	5 - 10 feet
Jack Pine		93	Pole/Sapling	6	58	Oak (spp.)		Low	5 - 10 feet	5 - 10 feet
Black Cherry		5	Sapling/Pole	4						
33	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	20.0	106	81-110	N/A	Contains the headwaters of an unnamed stream that is a tributary to the Manistee River. Local name for the site is Cold Springs. The stream appears to seep out of steep hill and springs near the transition between Portage Creek Road to King Road. The creek floodplain is rather wide and surrounded by a steep 20' bank that leads to a forested upland area. Floodplain contains more of the balsam and white pine while most of the oak and jack pine is on top of the bank.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		30	Log/Pole	10	106	Balsam Fir		Low	>20 feet	>20 feet
Paper Birch		5	Pole	8		Black/Red (Hybrid) Oak		Low	10 - 20 feet	10 - 20 feet
Quaking Aspen		25	Pole/Log	9		White Pine		Low	Variable	Variable
Black/Red (Hybrid) Oak		10	Log/Pole	12						
White Pine		20	Log	12						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
34	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	20.8	6	Immature	N/A	2025- Jack pine is starting to establish. Also some oak regeneration. Scattered mature white pine and oak left after harvest2015- 40 Laps Mix, 61-653-17. Cut fall 2019. Clearcut except for scattered leave trees.2015: Significant jack pine mortality and some oak mortality. Stand is more diverse along edges especially northern boundary along King Road. Rolling hills.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Sapling	1	6
								White Oak	10	Log/Pole	12	
								Black/Red (Hybrid) Oak	10	Sapling	1	6
								White Pine	10	Pole/Sapling	7	
35	4124 - Red with White Oak	Sawtimber Well	8.2	85	81-110	N/A	2025- A part of the parent stand that was not harvested. Oak and pine developing in the understory. On the ridge top. 2015-Fair quality oak stand. Mostly poles but starting to reach log size. Evidence of fire. Some remnant older red pines. White pine and red pine in the understory on the slope with a southeast aspect. A few patches of dense oak regeneration but < 3' tall. Relatively flat terrain.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	40	Log/Pole	10	85
								White Oak	45	Pole/Log	9	85
								Bigtooth Aspen	10	Pole/Log	8	
								Red Pine	5	Pole/Log	9	
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Oak	Low	5 - 10 feet	5 - 10 feet	
								White Pine	Low	5 - 10 feet	5 - 10 feet	
								Red Pine	Trace	5 - 10 feet	5 - 10 feet	
Red Maple	Low	Variable	Variable									
Witch Hazel	Low	5 - 10 feet	5 - 10 feet									
36	42200 - Natural White Pine	Sawtimber Medium	24.0	65	1-50	N/A	2025- Stand is in a valley. Many ages and sizes of pine overstory. Mix of deciduous species regenerating after harvest. Decent oak / pine component. Most of the oak is still below browse line. 2020-Cut everything except red and white pine 2020, Sauntering Salvage, 61-669-16.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	60	Pole/Sap/Log	8	65
								Red Pine	40	Log/Pole	10	65
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Oak	Low	5 - 10 feet	5 - 10 feet	
								Black/Red (Hybrid) Oak	Medium	5 - 10 feet	5 - 10 feet	
								White Pine	Medium	5 - 10 feet	5 - 10 feet	
Red Maple	Low	5 - 10 feet	5 - 10 feet									
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet									
37	123 - Other High Intensity Urban	None	96.6			No	CIED training area. Some forested areas but will likely never have a forest management objective.					
38	4126 - White, Black, N. Pin Oak	Sawtimber Well	45.4	103	81-110	N/A	2025- Seeing some individual mortality. Small amounts of pine and oak establishing in the understory. 2015- Most of stand is behind a chain link fence. Fair quality oak with scattered pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Oak	30	Log/Pole	10	103
								Bigtooth Aspen	25	Log/Pole	10	
								Black/Red (Hybrid) Oak	40	Log/Pole	11	103
								Red Pine	5	Log	12	
39	110 - Low Intensity Urban	None	3.0			No	Range 20.					
40	110 - Low Intensity Urban	None	17.2			No	Military training area.					
41	330 - Low-Density Trees	None	1.8			No	Small opening/area of disturbance.					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
42	4126 - White, Black, N. Pin Oak	Sawtimber Well	30.5	106	81-110	N/A	2025- Patches of oak establishing in the understory. Also Scattered red and white pine present under the oak canopy. Berm around stand. 2015: Fair quality oak with some pockets of pure aspen. Some oak mortality and heavy browse. Rolling hills but generally flatter. Stand is adjacent to Range 20 which is used for detonating small explosives. As a result, trees on the edge of the range may contain metal fragments.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole	8		White Oak	Medium		< 5 feet	< 5 feet
White Oak	20	Log/Pole	10	106	Red Maple	Low		>20 feet	>20 feet
Bigtooth Aspen	10	Pole/Log	9		Black/Red (Hybrid) Oak	Low		5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	45	Log/Pole	12	106	White Pine	Low		>20 feet	>20 feet
White Pine	10	Pole/Sap/Log	8		Red Pine	Low		>20 feet	>20 feet
Red Pine	5	Pole/Sap/Log	8						
43	4199 - Other Mixed Upland Deciduous	Sapling Medium	30.0	7	1-50	N/A	2025- Stand is regenerating well to a nice mix of species. Some of the oak is still below the browse line and some is getting chewed off. Moderate terrain. More residual log sized trees on the ridge2020: 40 Laps Mix, 61-653-17. Cut fall 2019 with adjacent Sauntering Salvage. Cut everything except RP, WP, and white oak.2015: Fair quality oak stand but variable density. Trace of red pine and white pine in the canopy. Heavy browse on seedlings < 3' tall. Evidence of fire. Pocket of good size aspen in southeast corner near pipeline.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	25	Sapling	1	7					
White Oak	15	Log/Pole	10	105					
White Oak	10	Sapling	1	7					
Bigtooth Aspen	20	Sapling	1	7					
Black/Red (Hybrid) Oak	20	Sapling	1	7					
White Pine	7	Pole/Sap/Log	7						
Red Pine	3	Pole/Log	8						
44	429 - Mixed Upland Conifers	Poletimber Poor	15.3	36	1-50	N/A	2025- Data was lost after field visit. Needs to be updated with a field data. Area is used heavily for military training activities. Semi open stand filling in with jack pine and white pine.		
45	4310 - Pine, Oak Mix	Poletimber Well	39.5	81	81-110	N/A	2025- stand is pine oak mix, slightly heavier to pine. Southwestern part of stand has a heavy jack pine component. Quite a few size classes and cores indicate some different ages. Overall healthy stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	35	Log/Pole	10	81	White Pine	Medium		Variable	Variable
White Oak	10	Pole	8		Red Maple	Low		>20 feet	>20 feet
Bigtooth Aspen	5	Pole/Log	8						
White Pine	20	Pole/Log/Sap	8						
Red Pine	15	Log/Pole	10	68					
Jack Pine	15	Pole	7	54					
46	4199 - Other Mixed Upland Deciduous	Sapling Medium	144.6	6	Immature	N/A	2025- Stand is in the process of regenerating. oak is establishing on the hill tops but is under a fair amount of browse pressure. 2020- Seedtree harvest in 2020. Yotta Oak, 61-654-17. Cut all aspen, red maple and jack pine. Leave tree marked scattered oak2015: Some training infrastructure scattered throughout the stand. Rolling hills. Scattered pockets of pine in valleys and pockets of denser aspen. Average BA is 109 sf/ac. Generally little understory. .		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	25	Sapling	1	6	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
White Oak	15	Sapling	1	6	Red Pine	Low		>20 feet	>20 feet
White Oak	3	Log/Pole	11	101	White Pine	Low		>20 feet	>20 feet
Bigtooth Aspen	25	Sapling	1	6					
Black/Red (Hybrid) Oak	25	Sapling	1	6					
White Pine	5	Pole/Sap/Log	6						
Red Pine	2	Log/Pole	10						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
47	4126 - White, Black, N. Pin Oak	Sapling Well	42.0	6	1-50	N/A	2025- cak is establishing on the south and west aspects, red maple and aspen on the north. fair amount of browse. Much of the oak still susceptible to browse. 2020-Final harvest in 2020. Yotta Oak, 61-654-17. Cut summer/fall 2020 and chipped. Cut all aspen, black/red/hybrid oak, red maple and jack pine. Left all red pine, white pine and white oak. Left more white oak than original prescription to reduce labor on sale prep2017: Fair to good quality oak with some mortality. Rolling hills. Scattered pockets of advanced regeneration. Generally more open in area outside of loop road..																																																							
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48	4310 - Pine, Oak Mix	Sawtimber Well	44.6	58	81-110	N/A	2025- Stand has a few age and size classes. Quite a bit of vertical structure. Some areas are more of a pine stand others more of an oak. Berm around the majority of the stand.BAs: 110, 110, 130, 2015- Stand is adjacent to Range 20 which is used for detonating small explosives. As a result, trees on the edge of the range may contain metal fragments. Understory is dense white pine with a few red pine sap/poles. Rolling hills with a slight depression in the middle of the stand. Observed a large flock of turkeys.																																																							
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49	42110 - Planted Red Pine	Sapling Well	27.7	7	Immature	N/A	2025- Red pine is well established with just a little competition. Burned in Range 9 fire, May 2010. Contains several access roads to seasonal dwellings on private property to northwest. Chopped and trenched fall 2016. Planted May 2017. 1-year regen survey 10/24/2018. 21% mortality. 81% FTG. Minimal competition -- scattered cherry and oak seedlings. High sedge.Driveby 10/11/19 seedlings look pretty good from the road. I think we should just continue on the established regen check schedule.																																																							
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51	4126 - White, Black, N. Pin Oak	Sawtimber Well	39.9	106	81-110	N/A	2025- Small pocket and individual stem mortality present but mostly healthy looking stand. Oak present in the understory but is stunted and browsed down. BAs 70, 100, 1302015- Fair to good quality oak which increases with elevation. Some oak mortality. More jack pine mixed in on flat parts. Rolling hills. Part of stand is behind fence.																																																							
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53	42220 - Natural Jack Pine	Poletimber Well	8.5	60	51-80	N/A	2025- Oak is well established in the understory. Over story is deteriorating. 2015- Some jack pine mortality. Very dense oak saplings in understory; many could be considered advanced regeneration.																																																							
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54	4119 - Mixed Northern Hardwoods	Sapling Medium	10.8	27	1-50	N/A	2025- Clumps of mature aspen but prodominetly Cherry and jack pine filling in the barrens. 2015-Clearcut in 1999. Heavy deer browse.																																																							
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55	4131 - Aspen, Oak	Sapling Well	6.2	18	Immature	N/A	2025- Stand has regenerated well. Slightly less stocking on the north end. 2015 -Cut October 2008 as part of Smith Hill Oak, 61-602-07-01, Mid-Michigan Logging, clearcut with 2" spec. Left a few overstory oak and pine. Heavy browse on the oak seedlings < 3' tall. There were problems with bullets in the trees that were not picked up by metal detectors. Sale notes state that this 2007 sale was set up before retention guidelines went into effect.																																																							
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57	6112 - Lowland Aspen	Poletimber Medium	1.6	68	Unspecified	N/A	2015-Burned in Range 9 fire, May 2010. Narrow stand bisected by an intermittent drainage and wettest at western end.																																																							
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58	330 - Low-Density Trees	None	2.1			No	Small opening with lots of disturbance.																																																							
60	42220 - Natural Jack Pine	Poletimber Well	22.7	66	51-80	N/A	2015-Variable stand that serves as buffer for training area. From 2005 KGR comments: Portions of the stand may have hazards in the form of military ordnances. Some were found in this area in 1998.																																																							
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61	4122 - Oak, Pine	Sawtimber Well	41.9	106	51-80	N/A	2025- Mature oak component in the southend. Quite a bit of oak regen present. Individual and pocket mortality in the oak. Rolling terrain. Some Pockets of pole sized oak. More of air jack pine component in the northend.2015-Variable stand, poor quality. More diverse at edges. Patchy BA; parts have open canopy with 10-20' oak saplings. Moderate jack pine mortality. Mostly flat terrain.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4126 - White, Black, N. Pin Oak	Sawtimber Medium	20.5	99	51-80	N/A	2025- Stand has lots of vertical structure with a healthy crop of oak regen in the understory. Areas of pole size oak. 2015- Variable, diverse stand. Scrubby stand with significant mortality. Most flat with some small canopy gaps.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole	7	58	White Oak	Medium		5 - 10 feet	5 - 10 feet
White Oak	30	Log/Pole	10	99	Red Maple	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	10	Pole	8	58	Red Pine	Trace		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Pole	8	58	Black/Red (Hybrid) Oak	Medium		10 - 20 feet	10 - 20 feet
Black/Red (Hybrid) Oak	35	Log/Pole	12	99	White Pine	Trace		5 - 10 feet	5 - 10 feet
White Pine	2	Log/Pole	10						
Red Pine	3	Log/Pole	10						
Jack Pine	10	Pole	7	58					
64	42220 - Natural Jack Pine	Sapling Medium	9.5	26	Immature	N/A	2015-Opening that is filling in with very limby jack pine. Stocking is variable. Opening continues into adjacent compartments.		
Canopy Species	% Cover	Size Class	DBH	Age					
Black/Red (Hybrid) Oak	10	Sapling	2						
	Jack Pine	90	Sapling/Pole	3	26				
65	4126 - White, Black, N. Pin Oak	Sawtimber Well	24.7	92	51-80	N/A	2025- A few clones of aspen but dominated by oak. Pockets of Oak and pine establishing in the understory. 2015- Variable stand with fuzzy edges. Generally low quality. Small canopy gaps and multiple roads and trails as though this stand receives heavy training use. Jack pine mostly at edges and NW and SE corners.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Black/Red (Hybrid) Oak	Low		5 - 10 feet	5 - 10 feet
White Oak	20	Pole/Log	8		White Pine	Trace		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15	Pole/Log	9		White Oak	Medium		5 - 10 feet	5 - 10 feet
Black/Red (Hybrid) Oak	48	Log/Pole	12	92	Red Pine	Trace		5 - 10 feet	5 - 10 feet
Red Pine	2	Log	12						
Jack Pine	5	Pole/Sapling	6						
66	4126 - White, Black, N. Pin Oak	Poletimber Well	10.5	91	111-140	N/A	2025- seeing some mortality in the western part of the stand. Oak regenerating in the areas of dieback.2015 -Stand transitions between pine stand to south and aspen/oak to north. Distinctive because it has an understory of older and variably sized red pine and white pine (dbh ~4-8"). Gentle slope. Heavy browse.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	20	Log/Pole	10	91	Black/Red (Hybrid) Oak	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15	Pole	8		White Pine	Medium		Variable	Variable
Black/Red (Hybrid) Oak	55	Log/Pole	13	91	Red Pine	Trace		Variable	Variable
White Pine	5	Pole/Log	9		White Oak	Low		< 5 feet	< 5 feet
Red Pine	5	Pole/Sap/Log	8						
67	4122 - Oak, Pine	Sawtimber Well	16.8	91	51-80	N/A	Variable stand. Medium-quality oak with pockets of jack and other pine spp. Average BA is 76 sf/acre. Relatively dense oak understory, 1-2' tall but heavily browsed. More oak regeneration in southern part of stand. Rolling hills.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole	6		White Oak	Medium		5 - 10 feet	5 - 10 feet
Red Oak	35	Log/Pole	12	91	Black/Red (Hybrid) Oak	Low		5 - 10 feet	5 - 10 feet
White Oak	25	Log/Pole	10		White Pine	Low		Variable	Variable
White Pine	15	Log/Pole	10		Red Pine	Trace		5 - 10 feet	5 - 10 feet
Red Pine	5	Log	10						
Jack Pine	15	Pole/Log	8						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
70	4126 - White, Black, N. Pin Oak	Sawtimber Medium	12.0	116	51-80	N/A	2025- Some top dieback in the canopies as well as pocket and individual mortality. Oak establishing in the understory. 2015- Poor quality and greater mortality than other oak stands in this compartment. Heavy browse. Gentle slopes.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak	35	Log/Pole	10	116	White Oak	Medium		< 5 feet	< 5 feet
Black/Red (Hybrid) Oak	50	Log/Pole	12	116	Black/Red (Hybrid) Oak	Medium		5 - 10 feet	5 - 10 feet
White Pine	5	Log/Pole	10						
Red Pine	5	Log/Pole	10						
Jack Pine	5	Pole	8						
72	4199 - Other Mixed Upland Deciduous	Sapling Well	90.4	6	1-50	N/A	2025- Oak regeneration seems to be the most dense where the Over story is thicker. Heavy deer browse has Kept the majority of the oak regen below 5'. 2020-Final harvest in 2020. Yotta Oak, 61-654-17. Also chipped. Cut everything except red pine, white pine and white oak. 2017: Fair quality oak with heavier aspen in some parts. White pine in understory is heavier along the northern aspect slopes along the north edge of the stand. Red maple may have been removed from part of stand in the mid-1990s. Average BA is 88 sf/ac. Some oak mortality and heavy browse. Rolling hills with a local summit of 1,255' south of road.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	22	Sapling	1	6	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
White Oak	20	Log/Pole	10	111					
White Oak	20	Sapling	1	6					
Bigtooth Aspen	18	Sapling	1	6					
Black/Red (Hybrid) Oak	15	Sapling	1	6					
White Pine	3	Pole/Sap/Log	7						
Red Pine	2	Pole/Sap/Log	8						
73	4124 - Red with White Oak	Poletimber Well	22.4	51	51-80	N/A	2025- Healthy looking StandBAs: 80, 60, 100, 90. 2015- Some stems just reaching pole size. Multi-stem red oak and red maple. Variable stand. White pine is heavier in some pockets.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	25	Pole/Sapling	5	51	Red Maple	Low		Variable	Variable
Red Oak	40	Pole/Sapling	6	51	White Pine	Medium		Variable	Variable
White Oak	20	Sapling/Pole	4	51					
White Pine	10	Pole	8						
Red Pine	5	Pole	7	51					