



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72251

Entry Year 2021

Acreage: 1,757

County Crawford

Management Area: Camp Grayling

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**Revision Date:** 2019-07-03

**Stand Examiner:** Scott McClarren

**Legal Description:**

T28NR2W Sections 31, 32 and 33

**Identified Planning Goals:**

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

**Soil and topography:**

Topography within this compartment is flat to gently rolling with ridges to the east of Jones Lake and around the southern portion of KP Lake. The major soil complex present in this area is Grayling sand with small inclusions of other types present, the most notable being Graycalm-Klackling sands. This association is found primarily on upland flats and low knolls which are dominated by jack pine stands commonly in association with red pine and oak species. This soil complex is characterized as being excessively drained with major management concerns including equipment limitation, seedling mortality and erosion from wind and water. Wind throw is also a concern throughout this soil type complex. The bottomlands of this compartment, mainly to the west of Jones Lake, are made up of Tawas-Lupton Muck, Dawson-Loxley Peat and Leafriver Muck associations. These soil complexes are characterized as being poorly drained and are most often associated with a water course or water body. Major management concerns in these areas include equipment limitation, windthrow and seedling mortality.

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

Compartment 251 is surrounded by a great deal of state land, much of which is used for military training activities. The compartment is comprised of Military Board Lands intermixed with lands leased to the National Guard under L-1479, a long-term lease agreement with the Michigan National Guard, Department of Military Affairs. The agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs.

Recreational use is moderate within the compartment throughout the year. During the winter months snowmobile use is heavy as trail #47 traverses the compartment. During the summer and fall, hunting and fishing opportunities are plentiful in the area. Jones Lake State Forest Campground offers camping and a boat launch.

**Unique Natural Features:**

Both Jones Lake and KP Lake are located within this compartment. Each provide a unique fishing opportunity as well as excellent wildlife habitat.

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

There are three archaeological sites located within this compartment, however all three have been previously determined to be not significant and do not need to be avoided during any treatments in this compartment.

**Special Management Designations or Considerations:**

There is potential for dry prairie plants in grassy openings to include pine barren's species of Hill's thistle, rough fescue, Alleghany plum and Pale Agoseris. There also is potential for pine barren's species including dusted skipper, grizzled skipper and red-legged spittlebug to be present in these openings. Warbler species will be found in the young jack pine stands that abound in this region. There is also the potential for Eastern Massasauga rattler, wood turtle and loon to exist within the riparian zones of this compartment. Bald Eagle have been documented in this area.

**Watershed and Fisheries Considerations:**

Jones Lake, KP Lake and the surrounding wetlands comprise the watershed/fisheries concerns within this compartment. Jones Lake is managed as a quality fishing lake and is closed to fishing during the winter months and has good populations of largemouth bass, northern pike, and bluegill, and has Quality Non-Trout Fishing Lake regulations. These regulations include catch-and-release only fishing, artificial lures only, and an abbreviated fishing season. The lake drains into the East

Branch of the AuSable river, a designated trout stream natural river. KP Lake is surrounded by mainly private ownership and has populations of largemouth bass, bluegill, and yellow perch. Forest Management adjacent to each of these water bodies has and should continue to take into account Best management practices. Riparian areas for wildlife habitat and the maintenance of water quality should be the primary goal of forest management adjacent to both KP Lake and Jones Lake.

### **Wildlife Habitat Considerations:**

This compartment is valuable for many species of wildlife. Jack pine plantations that are dense and large in terms of acreage provide tracts of land used for thermal and protective cover throughout the year by many wildlife species. The river corridor and surrounding swamps also provide large tracts of uninterrupted land used by a variety of wildlife species for breeding and nesting, protection from predators and forage grounds. Management decisions within this compartment are influenced greatly by wildlife considerations.

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

The Bud Hill sand pit is located in Section 31 and is currently leased to the DMVA. There is good potential for additional sand & gravel within the compartment. The nearest oil & gas production, past or present, is more than three miles to the northwest. There is no history of oil & gas leasing within the compartment, and oil & gas potential is considered low at this time. There is no known metallic mineral potential in this part of the state. The state does not own all 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:**

Access to this compartment is good with CR-612 bordering the north side of the compartment. County roads of Stephan Bridge Rd and Jones Lake Rd lead south of CR-612 with state forest two-tracks extending to remaining areas within the compartment. KP Lake Road, a county road, runs through the west portion of the compartment and provides primary access for most residents living around KP Lake. The compartment also contains one of Camp Grayling's designated tank trails.

### **Survey Needs:**

Further surveying needs to be done in the SESW of Section 32. A small parcel of private land exists here and the boundary lines are not delineated at this time.

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

Jones Lake SF Campground and access site exists within the compartment and provides a great deal of recreational opportunities including camping, fishing and swimming. KP Lake Access Site also provides an opportunity to access KP Lake for fishing, boating and swimming. Lovell's Snowmobile trail #47 traverses the length of the compartment.

### **Fire Protection:**

Fire protection is considered in this area because of its close proximity to large jack pine plantations and its tendency for quite droughty soils. Many of the management decisions within this compartment are based on and influenced by the stands probability to be a fire hazard before and after treatment.

### **Additional Compartment Information:**

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

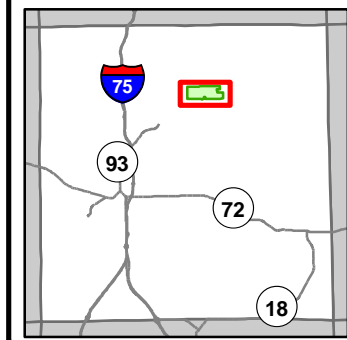
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

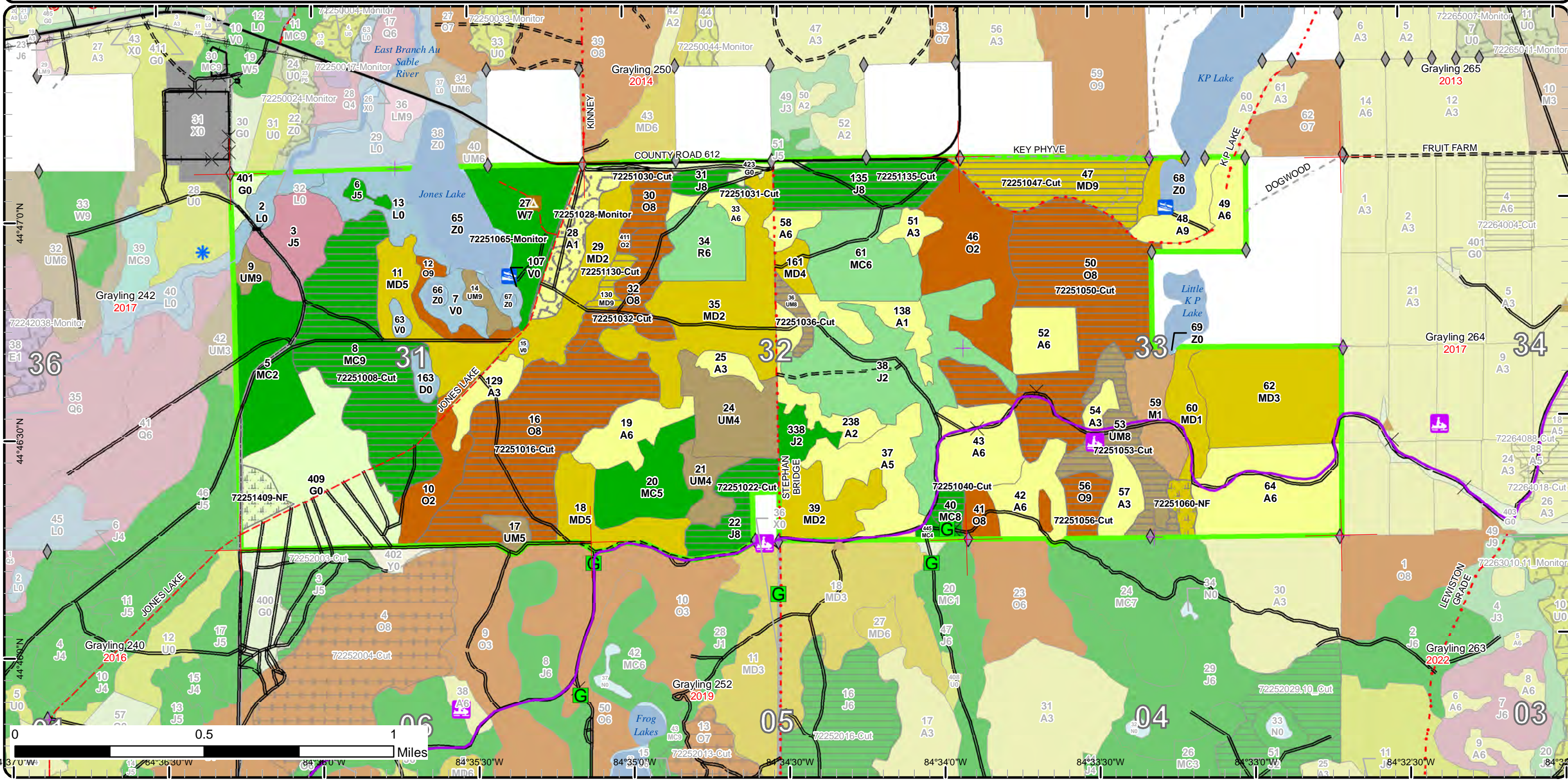
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 251  
 T28N, R02W, Sec. 31-33  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2021  
 Acres: 1,757 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 12/9/2019  
 Map Phase: Post-Review



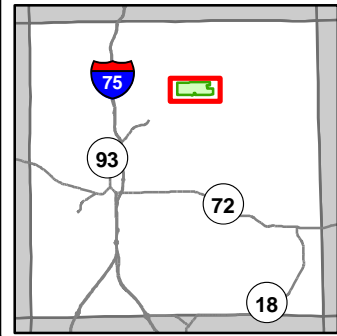
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- B Boating Access Site
- Bridges
- ▲ Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- Monitoring
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- \* Camp Grayling Monitoring Wells
- X Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail



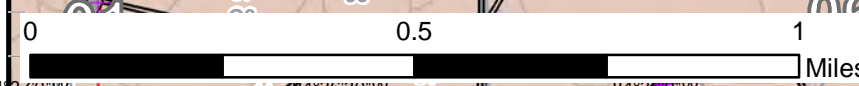
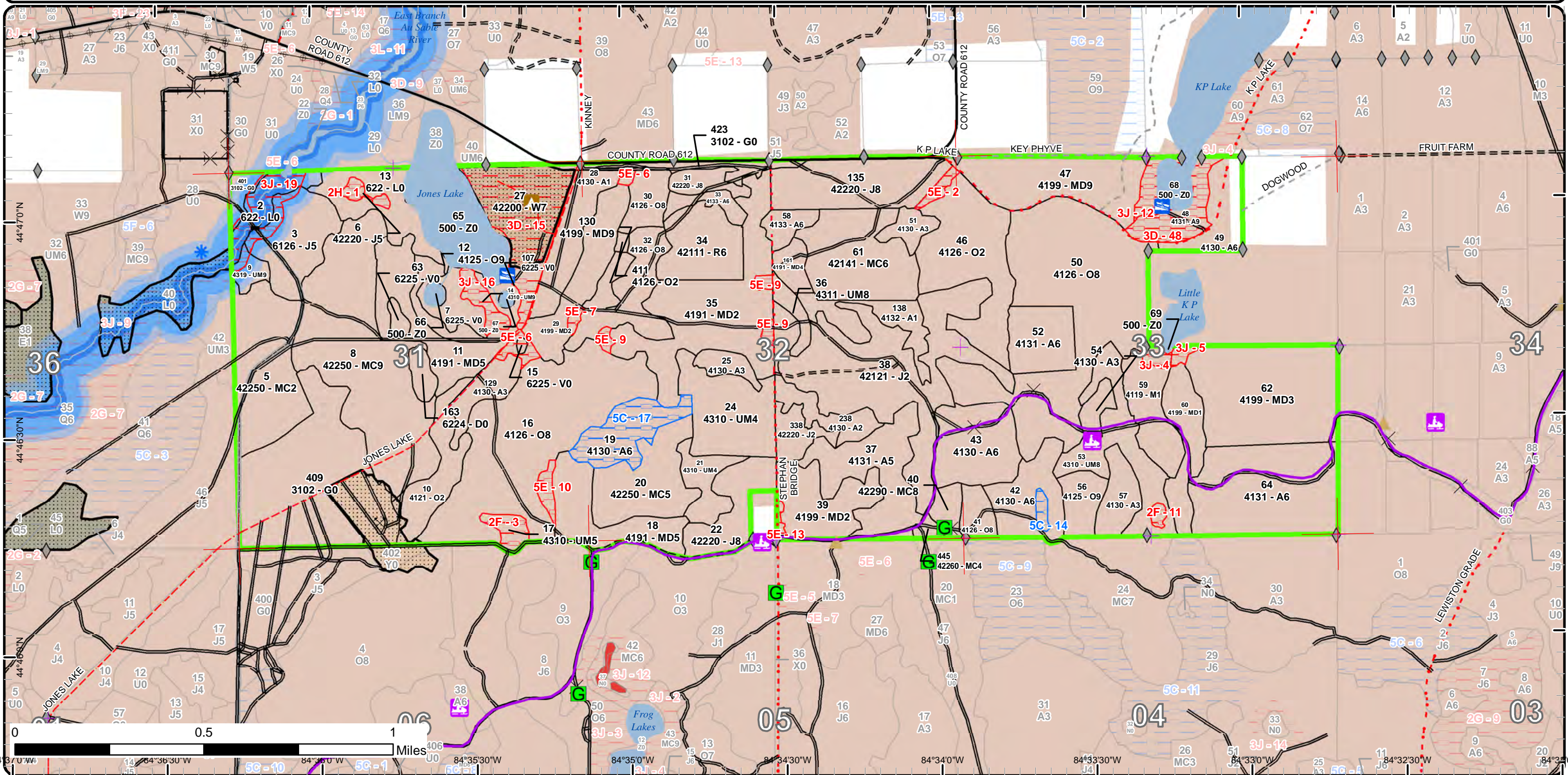


# Special Conservation Areas

Compartment: 251  
 T28N, R02W, Sec. 31-33  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Camp Grayling  
 YOE: 2021  
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- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- B Boating Access Site
- Bridges
- ▲ Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- State Forest Campground
- Sand or Gravel Pit
- Sand or Gravel Pit
- Habitat Corridor
- \* Camp Grayling Monitoring Wells
- X Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention



# Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 251 Year of Entry 2021

Scott McClarren : Examiner



## 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	21	55	53	159	0	20	0	14	0	0	0	0	0	0	0	0	0	322
Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Herbaceous Openland	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Jack Pine	0	0	89	28	0	0	0	44	23	0	0	0	0	0	0	0	0	0	184
Lowland Shrub	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Mixed Upland Deciduous	0	142	62	7	54	0	0	0	0	51	0	0	0	0	0	0	0	0	316
Natural Mixed Pines	0	0	45	0	0	0	33	0	6	91	0	0	0	0	0	0	0	0	175
Northern Hardwood	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Oak	0	71	1	0	0	0	0	7	32	231	0	0	0	0	0	0	0	0	342
Planted Mixed Pines	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Red Pine	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	33	12	5	6	37	5	0	0	0	0	0	0	0	0	98
Water	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
White Pine	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	38
<b>Total</b>	<b>196</b>	<b>256</b>	<b>252</b>	<b>153</b>	<b>246</b>	<b>12</b>	<b>58</b>	<b>57</b>	<b>151</b>	<b>378</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1757</b>



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 251

Total Compartment Acres: 1,757

Commercial Harvest - 495  
 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	65	0	0	0	0	0	0	0	0	65
Mixed Upland Deciduous	46	0	0	0	0	0	0	0	0	46
Natural Mixed Pines	98	0	0	0	0	0	0	0	0	98
Oak	251	0	0	0	0	0	0	0	0	251
Upland Mixed Forest	36	0	0	0	0	0	0	0	0	36
<b>Total</b>	<b>495</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>495</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	495	0	0	0	0	22	0	14		531
Next Step	0	0	0	0	0	495	0	0		495
<b>Total</b>	<b>495</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>518</b>	<b>0</b>	<b>14</b>		<b>1026</b>



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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:**

<b>8</b>	<b>72251008-Cut</b>	91.4	42250 - Pine, Oak	Sawtimber Well	81	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Place some retention along the lowland areas and strategically around the tank trail to deter military use in stand.  <u>Specs:</u> May need more than 3% retention to achieve all this. Retain all white oak. Protect advanced regeneration. Add military specs. Oak wilt spec.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, or pine is acceptable. Expect minimal stocking in this stand.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>16</b>	<b>72251016-Cut</b>	98.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	85	1-50	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Don't harvest the long-term retention area that was established in the previous cutting. Add military specs, snowmobile specs, and oak wilt spec.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak, maple, aspen, or pine is acceptable.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>22</b>	<b>72251022-Cut</b>	20.8	42220 - Natural Jack Pine	Sawtimber Medium	73	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut except leave all white oak and X-log size trees. Add military specs and snowmobile specs. Protect advanced regen.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable. Expect minimal stocking after harvest.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>28 72251028-Monitor</b>	22.2	4130 - Aspen	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Low stocking is acceptable</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen/oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>										
<b>30 72251030-Cut</b>	10.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	82	51-80	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut except leave white oak 6" and below at DBH and leave white oak greater than 16" DBH. Retain super-canopy pine. Protect oak seedlings/saplings. Add military specs. Oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Leaving 6 inch and below white oak will hopefully add structural diversity to stand while not impeding release of saplings. It should also</p> <p><u>Comment:</u> reduce the visual impact as well.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>31 72251031-Cut</b>	7.3	42220 - Natural Jack Pine	Sawtimber Medium	62	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention except leave all x-log sized oaks. Protect oak seedlings/saplings. Add military specs. Oak wilt spec.</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> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable.</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 /2020</p>										
<b>32 72251032-Cut</b>	22.8	4126 - White, Black, N. Pin Oak	Sawtimber Medium	78	51-80	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut except leave white oak 6" and below at DBH and leave white oak greater than 16" DBH. Retain super-canopy pine. Protect oak seedlings/saplings. Add military specs. Oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Leaving 6 inch and below white oak will hopefully add structural diversity to stand while not impeding release of saplings. It should also</p> <p><u>Comment:</u> reduce the visual impact as well.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>36 72251036-Cut</b>	5.4	4311 - Pine, Aspen Mix	Sawtimber Medium	71	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut without retention due to size of stand and operability. Military specs. Grouse spec.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen is the desired species, but any combination of aspen, maple, oak, or pine is acceptable.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>40 72251040-Cut</b>	6.2	42290 - Natural Mixed Pine	Sawtimber Medium	73	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention. Protect oak seedlings/saplings. Add military specs and oak wilt spec.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>47 72251047-Cut</b>	40.2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest with retention. RMZ buffer along KP Lake will serve as long-term retention and was drawn into MIFI using topo map. RMZ may be wider than BMP manual recommends due to inoperable slope. Within stand leave all white oak and X-log sized oak/pine. Add military specs and oak wilt spec. Protect advanced regeneration and oak seedlings.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Oak is desired species, but any combination of oak (25-35%), aspen, maple, or pine is acceptable.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>50 72251050-Cut</b>	109.0	4126 - White, Black, N. Pin Oak	Sawtimber Medium	87	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut except leave all white oak. Protect advanced regeneration. Add military specs, snowmobile specs, and oak wilt spec.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable.  <u>Regen:</u></p> <p><u>Other</u> North east property corner not located, however boundary is unmanaged military board purchased land.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>53 72251053-Cut</b>	30.3	4310 - Pine, Oak Mix	Sawtimber Medium	70	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut except leave all white oak and super canopy pine if found. Add military specs, grouse specs, and oak wilt spec. Protect advanced regeneration.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>56 72251056-Cut</b>	10.7	4125 - Black, N. Pin Oak	Sawtimber Well	82	141-170	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention except leave all white oak. Add military specs and oak wilt spec.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>60 72251060-NF</b>	5.3	4199 - Other Mixed Upland Deciduous	Sapling Poor	5	Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting and herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>65 72251065-Monitor</b>	0.0	500 - Water	Nonstocked		Unspecified	Monitoring	Herbicide Use	500 - Water		No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>130 72251130-Cut</b>	5.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82	111-140	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut except leave white oak 6" and below at DBH and leave white oak greater than 16" DBH. Protect oak seedlings/saplings. Add military specs. Oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable.</p> <p><u>Other Comment:</u> Leaving 6 inch and below white oak will hopefully add structural diversity to stand while not impeding release of saplings. It should also reduce the visual impact as well.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>135 72251135-Cut</b>	37.1	42220 - Natural Jack Pine	Sawtimber Medium	66	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention. Leave all white oak and x-log size trees. Add military specs and oak wilt spec. Protect oak seedlings/saplings. Harvest with stand 51 of Compartment 250.</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 Regen:</u> Oak is the desired species, but any combination of oak (25-35%), maple, aspen, or pine is acceptable. Expect minimum stocking in this stand.</p> <p><u>Other Comment:</u> MNFI hit in stand (Hill's Thistle). Don't place landing in areas with Hill's Thistle if found.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
409 72251409-NF	8.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting and herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Firing point 600. This maintenance will be carried out through a partnership between the Military, DNR-WLD and the National Wild Turkey Federation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Total Treatment Acreage Proposed: 531.1**

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 251  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
322	288	20	14

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions					
					5C	2F	2H	3D	3J	5E
322	288	20	14	Aspen	20			14	0	0
17	16	0	1	Bog						1
97	97	0	1	Herbaceous Openland					1	0
185	179	0	6	Jack Pine			3		4	0
33	23	0	10	Lowland Shrub			0		10	0
317	300	0	17	Mixed Upland Deciduous	0				7	10
176	176	0	0	Natural Mixed Pines						
22	19	0	2	Northern Hardwood					2	
341	334	2	5	Oak	2	0		0		5
40	40	0	0	Planted Mixed Pines						
25	25	0	0	Red Pine						
5	5	0	0	Treed Bog						
97	84	0	13	Upland Mixed Forest		6			7	
43	43	0	0	Water				0	0	
38	0	0	38	White Pine				38		0
1,758	1,628	22	108	Total Forested Acres	22	6	3	53	30	16
	93%	1%	6%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small upland stand surrounded by lowland.							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 251  
Year of Entry: 2021

3	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention associated with timber sale, Area 251 (72-625-11)							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention associated with timber sale, Area 251 (72-625-11)							

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 251  
Year of Entry: 2021

11	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dry kettle formation with inoperable slopes.							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	5E: Long-Term Retention	3D: Recreational / Scenic values	Unspecified	Unspecified
<b>Comments:</b> Long-term retention for stand 47.							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention associated with stand 39 sale #72-610-11.							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long-term retention associated with stands 56 and 42							
15	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Jones Lake Campground							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 251

Year of Entry: 2021

17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Ausable River, Natural River Buffer							
48	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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2	622 - Lowland Shrub	Nonstocked	11.7	0		No	Mostly tag alder wetland associated with the Ausable river. Some mature timber along the upland transitions and also some isolated pockets of trees in the north side of stand. Stand falls with in Natural River Buffer.
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Old Comment-OPIC - FMD: Thick lowland brush throughout stand. Overstory made up mostly of birch/tamarack/black ash along with some aspen and white pine. Pockets of spruce fir add to diversity and create some very thick pockets which seem to attract numerous wildlife species as a source of cover. Stand is difficult to access, most of inventory done within 200yds of bridge. (old comment) Includes the East Branch of the AuSable R. New wooden stress bridge for tanks in place. SW corner of stand is W7W2M1 it runs down into stand 5.

3	6126 - Lowland Jack Pine	Poletimber Medium	28.0	27	1-50	N/A	Variable stand consists mostly of lowland jack pine with pockets of spruce and red pine and white pine mixed in. More white pine than jack pine southwest of road. White pine and red pine must not have been cut in the last harvest and are 50-60 years old. White pine and red pine don't occupy enough of the canopy to call the stand 2 aged.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	57	Pole/Sapling	5	27
White Pine	15	Log/Pole	12	
Red Pine	7	Log/Pole	10	
Black Spruce	10	Pole	8	

Old Comment-OPIC - FMD: J2/J3 stand that was left to naturally regenerate after harvest in 1992. Stand is progressing ok however not fully stocked. Some moist ground evidenced by leatherleaf/blueberry, also dry in spots. Stand seems to provide a good example of jack pine barren area being lightly stocked with openings established with grass and other groundcover species. (no old comment)

5	42250 - Pine, Oak	Sapling Medium	44.9	17	Immature	N/A	Patchy composition in north side of stand with some large pockets of quacking aspen. Most of stand is oak and jack pine. White pine saps must have been protected at time of harvest as they have a jump on the competition. Some scattered mature oaks present. Southeast corner of stand is poorly stocked. Old Comment-OPIC - FMD: Very mixed stand in the process of regenerating. Typed/called stand O3 however pockets of aspen exist along with JP, RM, WP and overstory oak that were left as a buffer as well as to discourage tank use within stand. Some areas look like they were planted to JP however this was difficult to determine at time of inventory, may be natural regeneration. Overall a nice stand that is most likely going to develop into a mixed stand consisting of the species mentioned above. (old comment) Cut with stand 32 comp 242 this entry year, mixture of limby oak patch by the trail, J7J4A1W1 to North end in wetter soil. Tank trail runs through this stand. Leave a buffer of trees and regeneration along the south edge to establish a north boundary for stand 9 to prevent tanks from migrating into the regenerating cut area. Cutting specs to say leave 4 inches and less DBH, and a couple patches of oak. Timber Sale #72-042-01-01 Briggs Convoy Trail
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	53	Sapling	2	17
Black/Red (Hybrid) Oak	30	Sapling	2	
White Pine	7	Pole	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
<b>6</b>	42220 - Natural Jack Pine	Poletimber Medium	2.6	76	81-110	N/A	Merged stand 1 with stand 6, strip of trees immature trees connects the islands. Saved old comments from stand 1 below.  Old Comments- (Stand 1 Jack Pine island within stand 13. Jack pine is growing well with good form and descent height. Moist understory with bog/wetland indicator species including leatherleaf. Some spruce/fir along edges of stand with occasional blueberry on hummocks. Nice secluded stand of mature jack pine. (old comment) One of two islands of JP west of Jones lake and campground.). (Stand 6 J6 island, very similar to stand 1, slightly larger in area. JP is in good shape, growing well. Nice secluded stand, difficult to get to. Lots of wildlife use, some areas of moist understory. (old comment) One of two islands of JP visible from Jones lake and campground.)																																												
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<b>7</b>	6225 - Bog	Nonstocked	9.9			No	See old comments.  Old Comments- (OPIC - FMD: Bog with low L-type shrubs throughout. Small spruce/fir island in southern portion. Areas of standing water along with hummocks that have established dense grasses on them. Some small snags of birch and jack pine around perimeter indicating fluctuating water tables/levels within stand. (no old comment))																																												
<b>8</b>	42250 - Pine, Oak	Sawtimber Well	91.4	81	51-80	N/A	Jack pine and oak mortality present in stand. Some small lowland inclusions in and around stand.  Old Comment-OPIC - FMD: Mixed stand with jack pine and mixed oak being dominant. Jack pine size varies throughout stand with some large individuals present in pockets. Oak is of poor quality, regen is moderate with some areas of very heavy browse. Some balsam fir, RP and Wp present within stand in low numbers. Stand includes small R% inclusion along tank trail in northern portion of stand. (old comment) Cutting half of the stand to the west being stand 5 along with stand 32 comp 242.																																												
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<b>9</b>	4319 - Mixed Upland Forest	Sawtimber Well	4.8	58	111-140	N/A	West side of stand falls within Nat River buffer. Some super canopy white pine >26" DBH. A few of the aspen are getting over mature in west side of stand. Old Comment-OPIC - FMD: Very mixed stand including Wp, JP, RP and oak along with aspen and spruce/fir in lower numbers. Spruce/fir and aspen more prevalent as you near the east branch of the ausable. Some low spots within stand, overall poor quality timber throughout, however stand is proving to be very valuable as a refuge for wildlife.																																												
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<b>10</b>	4121 - Oak, Aspen	Sapling Medium	20.6	6	Immature	N/A	Dense aspen in pockets and more open in others, overall looks moderately stocked. Heavy browse, but dense oak stump sprouts and most aspen are just getting out of browse height. Heavier oak component to the south. Good stump sprouting response to harvest.																											
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<p>Old Comments-(OPIC - FMD: Stand was harvested under contract 72-625-11-01, Area 251. Old Comment: Low density stand-a mixture of oak, aspen and jack pine with red and white pine present in low numbers. Overall stand is poor in terms of quality with a few pockets along SE edge that are of fair quality. JP is patchy with the majority near stands 10/16 border. Lots of mortality in all species types. Understory is slight overall with oak and cherry brush making up the majority of understory composition. Treat stand by final harvesting all trees greater than 4.5"DBH. Mark some of the highest quality white oak to leave focusing this residual near Jones Lake Rd. White oak seem to be regenerating at the highest rate within the stand so hopefully by combining some of this natural regeneration with the expected stump sprouting, regeneration will increase throughout the stand. It can be expected that aspen pockets will develop within the stand following harvest and this should be encouraged. Jack pine, white pine and red maple regeneration should also be considered successful. (no old comment))</p>																																		
<b>11</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	27.9	36	1-50	N/A	Dense pocket of aspen in northwest corner and southeast corner. 1 super canopy wp seen on north side of stand along lowland boundary. There are a couple small lowland areas in the portion of the stand south of the tank trail.Old Comment-(OPIC - FMD: Very mixed stand of oak/aspen with areas of J2 mainly near bog on western edge. Typed stand as an A3 stand however there are areas that could be called O2/3. Based on average stems/acre after quick sampling, stand seems to lean towards aspen with oak being a codominant component. Area seems to support higher quality aspen growth with oak being shorter and exhibiting shrubby/limby form. Some red pine scattered throughout stand as well. (old comment) STAND WAS COMMERCIALY CUT IN 1983. O2J1 patch of A3 by main road, J2 around bog.)																											
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<b>12</b>	4125 - Black, N. Pin Oak	Sawtimber Well	8.7	74	81-110	N/A	Mostly mature oak with some old jack pine. Some white pine in northern portion of stand. see old comments-Old Comments-(OPIC - FMD: Narrow stand, provides good buffer between tank trail and jones lake/bogs to the nrth. Low quality stand in terms of timber quality, however lots of snags and down woody debris create a nice edge and offer great wildlife habitat. (old comment) Buffer south side of lake.)																											
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<b>13</b>	622 - Lowland Shrub	Nonstocked	21.7			No	Lowland alder between Jones Lake and the Ausable River. Tag alder and leatherleaf make up most of the herbaceous cover in this stand.Old comment-OPIC - FMD: L-stand with heavy brush. Inventoried from perimeter of stand. Lots of game trails traverse stand. Some scattered JP, tamarack and spruce/fir within stand however majority is made up of lowland brush species.																											



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<b>14</b>	4310 - Pine, Oak Mix	Sawtimber Well	5.6	60	81-110	N/A	See old comments- (OPIC - FMD: Somewhat mixed stand with areas of oak/jack pine however overall stand typed as a J6. JP is tall and growing well. Some dead standing and fallen snags provide good vertical structure and DWD. Understory is moderately stocked with oak, balsam fir and WP being dominant. Areas of thick blueberry and bracken. There is a low area in central portion of stand that connects jones lak to the north with bog area to the south. Looks as though during high water there may be wet areas within this pocket due to some L-type shrubs present. (old comment) North and south end solid oak type.)																																										
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<b>15</b>	6225 - Bog	Nonstocked	0.6			No	Part of long-term retention associated with Area 251 harvest (72-625-11).  Old Comments- (OPIC - FMD: V-type bog with some cattails around perimeter. Looks to have some small areas of seasonal standing water. Some dead standing trees within stand. Saw one woodduck within stand at time of inventory. (old comment) Two other smaller depressions to the south, starting to fill in with trees.)																																										
<b>16</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	98.3	85	1-50	N/A	Good oak regen through most of stand. Oak is staying below browse height in most of stand. Heavy wildlife use in stand. Hilly topography. Oak looks to be declining throughout stand (around 10-20 BA of dead oak), and more towards the north. Live BA is 48 on avg.Old Comment- OPIC - FMD: Stand harvested under contract 72-625-11-01. Oak stand with heavy aspen component in 5-8" range. Oak is of fair quality with some nice stems, aspen is ok, better quality in places. Not very much regeneration throughout stand, some white pine and oak pockets, oak is heavily browsed. Some areas of the stand are A6, this is not represented very well through the sumping of the stand. There are some large red pine on western side of stand that have seeded nicely and are now surrounded by fair quality regeneration. Aspen is more of a component to the east of the 2-track that transects the stand. Some red maple, not much. Treat stand by removing all aspen greater than 4.5"DBH. Also remove all jack pine and red maple. Some oak should be harvested in places in order to further release aspen and to promote stump-sprout regen in these areas. Since most of the aspen within the stand is in pockets, treatment should produce mixed regeneration in the understory of the oak with areas of heavier aspen being regenerated. Treatment should also promote enhanced oak regeneration along with the other species present including jack pine, red maple and red pine. Do not cut red pine along western edge and protect advanced regeneration of red pine and oak whenever possible. Maintaining red pine will help with aesthetic issues along Jones Lake Rd. (Depending on regeneration following harvest, white pine should be considered to plant in areas throughout the understory of the stand. This will increase diversity of regeneration while also promoting a mixed oak/pine stand with aspen regen scattered. Overall management objective is to release pockets of WO regeneration along with cutting some but not all aspen clones. Take out any red maple. Post sale, underplant white pine in the oak overstory part of stand. Cut oak in places in order to release WO regeneration. (old comment) Need to thin out patches of pole size aspen next time. Hilly area. If possible in the solid oak use the five spot with military restrictions.																																										
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17	4310 - Pine, Oak Mix	Poletimber Medium	5.0	80	51-80	N/A	Significant jack pine mortality. Oak has recruited to overstory under dead jack pine. A couple hawthorns found in the bottom of kettle. See old comments.Old Comments-OPIC - FMD: Small JP stand in valley growing fairly well. Not very tall or large DBH. Oak and aspen present in low numbers. Oak regeneration is thick in places. Deep kettle hole, steep sides. Interesting stand, leave as is and try to leave slight buffer when treating stand 16. (old comment) Kettle hole, steep sides, look at when thin stand 16.																																				
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18	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	26.1	35	1-50	N/A	Significant oak mortality on west side of stand, white oak recruiting well under dead hybrid oak. Couple aspen pockets found Dry kettle holes through stand.Old Comment- (OPIC - FMD: Mixture of oak, aspen, JP and occasional RM. Oak remains dominant species in stand however stand seems to be converting to a more aspen dominated type. Some merchantable timber present, mostly along trails and near openings, most likely residual from past harvest. Stand is heavier to JP in south and eastern portions of stand along snomobile trail. (old comment) STAND WAS COMMERCIALY CUT IN 1984.)																																				
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19	4130 - Aspen	Poletimber Well	20.0	50	81-110	N/A	Pole size aspen through most of stand, will be saw sized next entry. Small pocket of jack pine/oak to the north. Oak dominated canopy similar to stand 16 on south side. Scattered mature oak through stand may not make next entry. Starting to see oak mortality. Good oak regen through understory, but heavily browsed.Old Comment-(OPIC - FMD: Small DBH aspen stand with overstory oak and jack pine present. Occasional JP pockets throughout stand. Aspen is of fair quality, short in height=low SI. Some small pockets of O5. Aspen quality increases in north central areas along with pockets along western edge. Determine next YOЕ whether or not to final harvest stand. (old comment) RESIDUAL BA OF OAK AND JACK PINE IS APPROX. 20 SQ. FT. Some J1.)																																				
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20	42250 - Pine, Oak	Poletimber Medium	30.9	56	51-80	N/A	Jack pine is older than it looks, mostly pole sized with scattered ones getting into the saw class. Older saw sized oaks scatted pretty evenly through stand along with younger pole sized hybrid oak. Dry kettle formations present in stand.  Old Comment- (OPIC - FMD: Predominantly a J3 stand with oak and JP in overstory in low #'s. Oak is dying out leaving stand to develop into more of a pure JP stand. Some small aspen pockets throughout stand, most notably as stand fazes into stand 19 to the NW.)																																				
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21	4310 - Pine, Oak Mix	Poletimber Poor	12.1	41	1-50	N/A	Jack pine has taken over most of stand. A lot of the larger oaks have died or are declining. High density of oak advanced regen in northwest corner of stand and oak dominates canopy there. Old Comment-(OPIC - FMD: Low stocking, poor quality oak/descent JP. Lots of oak regen. Overall low stocking is providing good shelterwood conditions for oak regen, doing fairly well. Some JP regen in more open areas. Some WP. (old comment) Patches of solid oak and pine west of stand 24.)																																				
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22	42220 - Natural Jack Pine	Sawtimber Medium	20.8	73	51-80	N/A	Even age jack pine/oak with a couple pockets of younger jack pine. A few x-log size oaks scattered through stand. Good oak advanced regen through most of stand. Small opening with open grown jp in north side of stand. Old Comment- (OPIC - FMD: Low density JP stand with oak. JP seems to be 2-aged as there is both overstory and understory individuals throughout stand. Some mortality, fair quality overall. JP is larger and slightly more dense in western/southern areas of stand. Occasional overstory RP. (old comment) Some pine 40 years old, some 60.)																																																										
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24	4310 - Pine, Oak Mix	Poletimber Poor	32.7	36	1-50	N/A	Stand has many open areas with patchy open grown jack pine and oak. A few scattered xlog size trees found in stand (red pine and white oaks). Patch of saw size red/jack mix between stands 24 and 25. Old comments- (OPIC - FMD: Very mixed stand, becomes more uniform in southern portions of stand. In the process of regeneration. JP and oak are dominant with aspen and upland brush present in places. Some merchantable timber along Stephan Br Rd. Stand will be merchantable next YOE. Nice stand, developing well. Providing excellent wildlife habitat because of high density and ample cover. (old comment) STAND WAS COMMERCIALY CUT IN 1983. J2O2 to north, nice and thick J3 in the center and south end.)																																																										
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25	4130 - Aspen	Sapling Well	6.1	18	Immature	N/A	Dense fully stocked q. aspen. Patch of saw size red/jack mix between stands 24 and 25. Old Comments- (OPIC - FMD: A3 stand with oak and some RP/JP. Aspen is growing fairly well with descent form and adequate height. (old comment) Aspen in poor shape. Stand is part of timbersale (7204101-01) which was sold to Hesel Forest Products who were high bidders. After cutting unit 4 only (17 acres), went out of business. Sale will be re-advertised with the reduced acres and forest product.)																																																										
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27	42200 - Natural White Pine	Sawtimber Poor	38.5	71	51-80	N/A	Stand looks healthy with dense oak and white pine in the understory and between campsites. Mostly white pine in campground. More jack pine and hybrid oak south of campground. Variable densities and species composition through stand. Old Comments- (OPIC - FMD: Oak is of very poor quality, some nice JP and RP throughout. Understory is light with moderate stocking in places, mainly consisting of oak, JP and WP. Some areas are occupied by cherry brush with openings that resemble u-type pockets. Small pockets of aspen exist. White oak present in low numbers. WP more dense in campground as well as in the southern portions of this stand. (old comment) JONES LAKE STATE FOREST CAMPGROUND. Enter every year to remove hazard trees. Dead oak were removed from the campsites and boat launch/picnic area under contract #72-013-02-02 Campground Oak Salvage in May 2002. Approximate acres of 20 to 24. NEW COMMENTS Sale #720071201 Jones Lake Salvage, cut all oak from campground, left red and white pine. Sale was completed 7-4-12. PM)																																																										
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<b>28</b>	4130 - Aspen	Sapling Poor	21.2	5	Immature	N/A	Harvested 2014. As of now stand is overall poorly stocked however, the north and south side of the stand are fully to moderately stocked and meet minimum stocking requirements for mixed upland deciduous. There is about 10 acres in the center of stand that are poorly stocked with sparse/heavily browsed cherry and oak less than 6 feet. Old Comment-Oak salvaged under contract 72-626-14-01. If natural regeneration fails stand will be planted to red pine. OPIC - FMD: Stand harvested under contract 72-625-11-01. Old Comment: Mixed stand adjacent to Jones lake rd. Stand is dominated by oak however aspen and jack pine are quite numerous in places and are consistently in the 10BA range throughout the stand. Tank trail/old RR grade/2-track bisects stand in a N/S direction. Overall quality of stand is fair to poor with some oak and jack pine being of descent quality. Stand was previously treated however was not cut. Treat stand by removing all jack pine and aspen. Do not cut oak or white and red pine. Stand should develop into a mixed stand with aspen, jack pine and oak regeneration common. Oak and small amount of coniferous residual should help to alleviate visual concerns along road and from campground. (old comment) Just take out the JP when stand 29 is cut. Tank trail runs through stand. Leave JP by the water west of Jones lake road. Stand is part of timbersale (7204101-01) which was sold to Hesel Forest Products who were high bidders. After cutting unit 4 only (17 acres), went out of business. Sale will be re-advertised with the reduced acres and forest product.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	65	Sapling	1	5
Black/Red (Hybrid) Oak	15	Sapling	1	
Red Maple	20	Sapling	1	

<b>29</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	29.7	6	Immature	N/A	Stand regenerated well after harvest. Oak is dense in areas and being heavily browsed, but is starting to recruit above browse height. Oak should be a significant component. Retention was placed around the bog to the south contains mostly jack pine and aspen. Other retention one east side consists mostly of red pine. Northern retention is mostly oak. Old Comments- (OPIC - FMD: Stand harvested under contract 72-625-11-01. Old Comment: Descent aspen stand. Variable in terms of composition, stocking and density. Fair amount of oak mixed in, of poor quality. Some RP/WP poles. Stand was prescribed previously but was not treated. Treat stand by final harvesting all aspen and leaving red and white pine poles. Also mark to leave some oak adjacent to CR-612 while also leaving 1-2 retention islands within 400' of road right of way. The retention suggested should alleviate visual concerns and will also create enhanced diversity within the stand. Use rabbit habitat specifications within stand in order to improve habitat and create a greater amount of DWD within stand. May need to exclude small areas depending on steepness of slope. Determine at time of sale preparation. (old comment) South half cut all, North half cut all except oak over 8 inches DBH, steep hill on east side. Twp. Supervisor said no problem with no buffer for this stand along Co. RD. 612. Stand is part of timbersale (7204101-01) which was sold to Hesel Forest Products who were high bidders. After cutting unit 4 only (17 acres), went out of business. Sale will be re-advertised with the reduced acres and forest product.)
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Bigtooth Aspen	25	Sapling	1	
Red Maple	20	Sapling	1	
White Oak	20	Sapling	1	
Black/Red (Hybrid) Oak	32	Sapling	1	6



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<b>30</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	10.3	82	51-80	N/A	Stand located on high ridge overlooking Jones Lake and highway 612 (highly visual). Good oak regen through most of stand, but heavily browsed. Pocket of natural red pine on north side of stand along Highway 612. Significant hybrid oak mortality on east side of stand. Old Comments- (OPIC - FMD: Oak stand of poor quality. Aspen, red pine and red maple present as well. Aspen in descent #'s in some places. Some pockets of fair oak regeneration, not great. Wait until next YOE in order to increase BA and DBH and then final harvest with stand 130 which was previously part of stand 30 but is now separated because of small G0 stand-411.)																																																			
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<b>31</b>	42220 - Natural Jack Pine	Sawtimber Medium	7.3	62	51-80	N/A	Over mature jack pine with significant mortality occurring. Excellent oak recruitment in understory (most 10-20').  Old Comments- (OPIC - FMD: Mixed stand with areas of dense jack pine and other pockets that are lightly stocked. Also some pockets of grassy opening. Some big and little bluestem within stand. (old comment) Patches of J6 mixed with J4G.)																																																			
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<b>32</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	22.8	78	51-80	N/A	Significant mortality in north half of stand. Oak, aspen, and jack pine are over-mature. Scattered X-log sized red pine, white pine, and oaks seen. Good white pine regen around the couple mature white pines seen. Oak understory is decent, some starting to get over 5'.  Old Comments- (OPIC - FMD: Separated from stand 35/135 because of slightly different composition. Oak regen and red pine component throughout stand. Very mixed stand overall with JP, RP, aspen and oak being dominant in many places. Oak/WP make up majority of understory spp. Heavier to JP in N portion of stand. Lightly stocked overall, relatively small DBH. Thick about possibly treating next YOE, maintain red pine component and possibly replant to red pine or jack pine? (old comment) Staging area for military.)																																																			
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<b>33</b>	4133 - Aspen, Mixed Pine	Poletimber Well	6.0	27	1-50	N/A	Fully stocked aspen with a few oak stems intermixed. Aspen just starting to get 4-6" class. Two rows or planted red pine along the east boundary of stand and some planted rows reach into stand. Old comment- (OPIC - FMD: A3 stand growing fairly well. 15-20' in height. Descent form overall. Occasional oak stems, somewhat of an overlap between stands 33 and 34-RP and aspen.)																																																			
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<b>34</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	24.7	26	51-80	N/A	Red pine looks healthy in good form. Pockets of jack pine, aspen, and cherry through most of stand. Mostly pole timber with some immature mixed in. Old comments- (CC in 1992. OPIC - FMD: R3 stand with come jack pine mixed in. Similar to stand 61 to the east. RP looks to be growing well, some leader damage throughout stand. Occasional oak with pockets of aspen present. Oak becomes more of a codominant component in southern areas of stand. (old comment) RP only 1 ft tall, oak stump sprouts.)																																																			
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<b>35</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	64.7	6	Immature	N/A	Good jack pine regen through most of stand (around 500/ac on avg). Lots of the stump sprouted oak is just getting above browse height. Good white oak regen around some of the retained white oak retention. Pockets of dense aspen regen as well. Scattered red pine and oak residuals left through stand. Retention islands consist mostly of over-mature aspen and jack pine. Stand will likely be jack pine dominated next YOE except for south west fingers and north finger dominated by aspen.  Old Comments- (OPIC - FMD: Harvested under contract 72-610-11-01. Old Comment: Nice JP stand with some poor quality oak and scattered RP present. JP is doing well, some mortality but not as much as would be expected in a stand of this age and density. Lots of DWD from both oak and JP that have fallen. Some small aspen pockets on eastern side of stand along with some blending into adjacent stands on the west side of stand 35. (old comment) Stand 38 is the cut area for this stand. No need for a fuel break along Stephan Bridge rd.)																																													
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<b>36</b>	4311 - Pine, Aspen Mix	Sawtimber Medium	5.4	71	51-80	N/A	Aspen and jack pine mortality in stand. Pocket of denser white/red pine on the south side of stand where BA is closer to 100 sqft/ac. Old Comments- (OPIC - FMD: Small stand, mixed with aspen jack pine and oak. Aspen and jack pine are of descent quality however oak is terrible quality as is somewhat typical of the central portion of this compartment. Portions of stand are A6 while other areas are J6. Overall stand typed to be an A6 stand. (old comment) Patches of JP, aspen and grass.)																																													
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<b>37</b>	4131 - Aspen, Oak	Poletimber Medium	35.5	37	1-50	N/A	Small sliver of trees south of road is part of stand. Lots of dead/declining oak. Openings scattered through the more oak dominated parts of the stand. Somewhat poor quality aspen and oak. Old Comments- (OPIC - FMD: Stand converted from A3 to A4/5 since last YOE. Still small DBH and low stocking of merchantable timber, however enough to warrant typing as pole-sized stand. Pockets and scattered red pine exist in central portion of stand proving good diversity and increased vertical structure. (old comment) STAND WAS COMMERCIALY CUT IN 1982. Center portion has R7 scattered about.)																																													
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<b>38</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	80.2	14	Immature	N/A	Planted jp delineated from larger unplanted portions of stand stand split from original. Some pockets of aspen and cherry brush mixed through stand. Old Comments- (OPIC - FMD: Nice stand overall with small DBH JP, aspen and oak saps/poles in low density (<10BA). Jack pine was planted throughout stand with scattered pockets of aspen/jack pine regen that was planted around. Plantation is doing very well, approximately 2-4' in height with little mortality. Cherry brush throughout stand. Most of the areas that were avoided when planting are in the central portion of the stand with some pockets in the SW corner of stand. These areas are small and have been included in stand 38. (old comment) This is the cut stand for stand 35. 66 acres of the 124 acres was trenched and planted to Jack Pine in accordance with FTP C72-481 in 5/05. Stand must be evaluated next inventory to determine which of the stand was not planted.)																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**39** 4199 - Other Mixed Upland Deciduous Sapling Medium 26.6 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	7	Log	14	
Black/Red (Hybrid) Oak	30	Sapling	1	
Quaking Aspen	15	Sapling	1	
Jack Pine	10	Sapling	1	
Black Cherry	32	Sapling	1	6

Moderately stocked with patchy regen of variable species and densities.. Jack pine and oak will be a larger component in this stand once they recruit. Heavily browsed oaks are not quite out of browse height and JP is about 2 feet tall now. Cherry is pretty evenly distributed through stand with a few pockets of aspen. Red pine was left out of harvest. Retention area in sw corner along Stephan Bridge Rd consists mostly of red pine and jack pine. Overall stand looks like it meets regen objectives as stated in the FTP.

Old Comments- (OPIC - FMD: Harvested under contract 72-610-11-01. Red pine dense in SW corner near road/snowmobile trail. Descent JP throughout, some mortality. More of a pure jack pine stand away from road/trail. There are some larger jack pine throughout stand and overall, jack pine is doing quite well in terms of form and overall health. Treat stand by final harvesting. Leave red pine in SW portion of stand along with some trees marked to leave along stephan br rd. Replant stand to JP. Avoid pockets of red pine regen when planting operations occur. (old comment) This stand the same as Stand 35)

**40** 42290 - Natural Mixed Pine Sawtimber Medium 6.2 73 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	43	Pole/Log	9		White Oak	Low	Variable	Sapling
Quaking Aspen	10	Pole/Log	8		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Pine	45	Log	16	73				

Nice red pine throughout stand. Aspen and jack pine are getting over-mature and dying off. Lots of red pine getting into 18" d-class.

Old Comments- (OPIC - FMD: Lots of military activity throughout stand. Overall stand is a sparse jack pine stand, relatively poor quality. Some oak regen with very few aspen stems occasionally found along edges of stand. Some cherry brush in more open areas as well. (old comment) Used by the military.)

**41** 4126 - White, Black, N. Pin Oak Sawtimber Medium 7.4 66 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	73	Log/Pole	11	66	White Oak	Medium	Variable	Sapling
White Oak	20	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
					Red Pine	Trace	5 - 10 feet	Sapling
					Jack Pine	Trace	5 - 10 feet	Sapling

Small oak stand with good understory of oak and maple. Heavy browse present. Small pocket of mature aspen northeast corner. Some of the hybrid oak is declining and dying off.

Old Comments- (OPIC - FMD: Poor quality oak stand with occasional aspen throughout. Mainly concentrated in pockets. Lots of wildlife use in stand. (old comment) Limby some aspen.)

**42** 4130 - Aspen Poletimber Well 21.7 28 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	20	Pole/Sapling	5		White Pine	Trace	< 5 feet	Sapling
Bigtooth Aspen	53	Pole	6	28	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Maple	10	Sapling/Pole	4		White Oak	Low	10 - 20 feet	Sapling

Aspen with a component of oak. High maple density 10-20 feet in the sub-canopy south of road. Old Comments- (OPIC - FMD: A3 approximately 10-15' in height. Growing well with descent form. Oak is mixed in stand in fair numbers. Also some conifers present in low numbers as well. Tremendous amount of wildlife activity, mainly deer and turkey at edges of stand where it borders stand 55.)



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>43</b>	4130 - Aspen	Poletimber Well	28.9	36	81-110	N/A	<p>West 1/3 of stand and East 2/3 of stand could almost be split into different stands. East side is denser big-tooth aspen BA 111-140, west side of stand is more open with quaking aspen and jack pine 50-80 BA and 50-75% canopy closure. Southeast corner of stand is more dominated by oak. Left as 1 stand since it was all treated at the same time and will likely be harvested again at the same time.</p> <p>Old Comments- (OPIC - FMD: A3 approximately 20-30' in height. Growing well with good form and minimal cankering. Oak mixed throughout stand in lower numbers with pockets that are thicker. Some RP, JP and WP mixed throughout stand in low numbers as well. Some small pockets of A4, however overall stand is still typed as an A3. Merchantable trees are localized along edges and where greater sunlight is available. Will most likely type as an A4/5 stand next YOE.(no old comment) STAND WAS COMMERCIALY CUT IN 1983.)</p>																																																	
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<b>46</b>	4126 - White, Black, N. Pin Oak	Sapling Medium	50.1	5	Immature	N/A	<p>Good oak response to harvest, but heavily browsed. Some of the oak is getting about 5-6 feet tall, but most is still below browse height. Pockets of aspen and maple mixed in. Some small openings scattered through stand.Old comment- (OPIC - FMD: Harvested under contract number 72-609-11-01 "Winter Oak Jack" in January 2014. Boundary excluded retention pocket left along KP Lake Rd.)</p>																																																	
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<b>47</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	45.7	82	81-110	N/A	<p>Legacy red pine and x-log size oak scattered through stand. Oak and aspen mortality through stand. Poweline cuts through west side of stand parallel with KP Lake Rd.Old comments- (OPIC - FMD: Pockets of stand are regenerating well with oak seedlings/saplings. Some areas of RM and occasional aspen stems. Stand is hilly in spots, sloping generally to the east towards KP lake. Fair amount of dead oak within stand. Aspen throughout in low numbers, heavier in eastern areas of stand. (old comment) Enough dead oak to open up the stand, best not to thin on both sides of KP lake rd at the same time.)</p>																																																	
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<b>48</b>	4131 - Aspen, Oak	Sawtimber Well	14.0	70	81-110	N/A	<p>Super canopy red pine mixed through stand is older than the aspen and oak. High density of white pine in understory on north side. Some red pine subcanopy around KP Lake.Old comments- (OPIC - FMD: Public access site within stand. Descent aspen, steep slope to lake. Some decline within oak aspen making for great wildlife and bird habitat. (old comment) Public access site south end of lake.)</p>																																																	
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<b>49</b>	4130 - Aspen	Poletimber Well	16.7	37	51-80	N/A	Healthy aspen stand with large diameter oaks scattered through stand that were not cut last harvest. Very few pine in understory. Old comments- (OPIC - FMD: A3 stand growing well. Some merchantable timber along KP lake rd. however majority of stand is still not of pole- size yet. Will most likely be next YOE. White pine in understory in descent numbers with some large individuals left at time of harvest for visual and seed source purposes. Pockets of white pine regen are thick in places as is oak regeneration. (old comment) STAND WAS COMMERCIALY CUT IN 1982 CREATING A LOT OF CONTROVERSY.)																																					
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<b>50</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	109.0	87	51-80	N/A	Overall, stand has sub-canopy density of high to full through most of stand. West side of stand has less of a sub-canopy due to higher BA and less mortality than the rest of the stand. Some portions of stand sub-canopy are heavy aspen, while others are heavy oak. Red maple found through most of stand, sometimes in dense patches. Significant oak mortality. Snowmobile trail runs through south side of stand. Powerline runs through north side of stand along KP Lake Rd. Primitive hunting camp on north side of stand off KP road with rails built and hardware in trees.  Old comments- (OPIC - FMD: Species removal last YOE has resulted in mixed regeneration including red maple, aspen and oak. Currently red maple is dominating understory overall. Oak regen is being browsed however some trees have recruited to sapling layer. WP is also present albeit scattered and in somewhat lower numbers than you'd expect within the Kotar classification that this stand falls into. Overstory oak are of marginal quality, lots of defect, dead limbs, etc. Quite a few dead standing and lots of DWD from harvest as well as from falling snags. Stand provides nice visual after treatment, is regenerating well to a mixed stand with oak overstory. Includes what was previously stand 44. (old comment) Take out aspen and maple and if needed 7 inch and larger white oak. Strip of aspen in the center. Stand thinned to an average of 60 BA. Finished harvesting in the spring of 2003.)																																					
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<b>51</b>	4130 - Aspen	Sapling Well	6.5	27	Immature	N/A	Aspen with a component of oak. CC 1992. No maple observed (see old comments).Old comment- (OPIC - FMD: A3 stand with lots of red maple as well as oak throughout stand. Some cherry is also present in, mostly around perimeter edges. Quite a bit of wildlife activity concentrated in the edge areas.)																																					
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<b>52</b>	4131 - Aspen, Oak	Poletimber Well	19.3	36	81-110	N/A	Old landing in middle of stand makes a nice opening. Scattered aspen and oak getting saw sized. Found scattered red pine along east side, but no pine pockets observed (see old comments).Old comments- (OPIC - FMD: A4/3 stand, growing fairly well. Some oak mixed throughout stand. Also some JP/RP pockets which create some added diversity. Lots of wildlife within stand. Small amount of merchantable trees within stand, could have been typed as an A3 stand, however a lowly stocked A4 stand seems to be more accurate. Will most likely be an A6 stand next YOE. (old comment) STAND WAS COMMERCIALY CUT IN 1983.)																																					
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<b>53</b>	4310 - Pine, Oak Mix	Sawtimber Medium	31.7	70	51-80	N/A	<p>Heavy jack pine and oak mortality with red maple and oak recruiting. Snowmobile trail runs through stand. Hilly terrain in areas. Inoperable slope leading into dry kettle formation in the south (similar to stand 17). Some hawthorn found on east side of stand. Scattered red pine remnants through stand.</p> <p>Old Comments- (OPIC - FMD: Thick JP stand with red pine present. Oak saplings in understory along with cherry brush. JP is short in height but is growing well overall.)</p>																																																
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<b>54</b>	4130 - Aspen	Sapling Well	5.6	16	Immature	N/A	<p>See old comment.Old comment- (OPIC - FMD: A3 stand growing well, approximately 8-10' in height and 1-2" DBH. Oak scattered throughout stand along with cherry and RM. Lots of wildlife use. RP/JP around perimeter create a nice, small pocket stand amidst mature timber.)</p>																																																
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<b>56</b>	4125 - Black, N. Pin Oak	Sawtimber Well	12.8	82	141-170	N/A	<p>Split stand into multi-part stand due to size and treatment history around it. West part of stand contains advanced regen east part has little to no understory except some maple and hazel. East part of stand contains most of the aspen which is getting over-mature.Old comment- (OPIC - FMD: OI Stand Year Origin was 1937)</p>																																																
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<b>57</b>	4130 - Aspen	Sapling Well	12.2	28	Immature	N/A	<p>OPIC - FMD: A3 stand growing well. Oak is present along with JP around perimeter of stand. A few larger red pine and oak trees remain within stand creating nice vertical structure and some increased mast production.</p>																																																
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<b>58</b>	4133 - Aspen, Mixed Pine	Poletimber Well	6.5	26	1-50	N/A	<p>North half of stand was planted red pine through aspen. Aspen has over-topped most of the red pine. Scattered limby white pine was planted around as well. Stand just getting pole sized.Old comment- (CC 1992. OPIC - FMD: A3 stand with JP, oak and some red pine throughout. Will most likely develop into mixed stand with JP and aspen being dominant. Aspen is of good quality and is growing well, descent SI.)</p>																																																
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<b>59</b>	4119 - Mixed Northern Hardwoods	Sapling Poor	21.6	5	Immature	N/A	<p>Patchy regen throughout. Open cherry brush through some of it, with pockets of heavily browsed maple and oak. Aspen present, but in small pockets through stand.</p> <p>Old comment- (OPIC - FMD: Harvested under contract number 72-609-11-01 "Winter Oak Jack" in January 2014, snow on conditions. Boundary excluded retention pocket left to buffer KP Lake. 10-20 BA of all representative species left near snowmobile trail.)</p>																																																
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<b>60</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	20.8	5	Immature	N/A	South of snowmobile trail is non stocked and contains scatterd jp seedlings and open cherry brush. North of trail poor to moderately stocked maple, aspen, cherry, and oak. Far northern portion of stand is fully stocked aspen and red maple.  Old comment- (OPIC - FMD: Harvested under contract number 72-609-11-01 "Winter Oak Jack" in January 2014.)																																				
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<b>61</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	39.9	26	1-50	N/A	Jack pine out competing red pine in south side of stand. Large pockets of aspen through stand.Old comment- (OPIC - FMD: Stand planted to a mixture of red pine and jack pine. Small pockets of aspen throughtout. Oak of stump sprout origin are also present in relatively high numbers. Red pine/jack pine growing ok, not great. Some damage to leaders on red pine, jack pine is quite bushy indicating a lower site index for each of these species. Overall, stand is heavier to red pine, quality improves as you move east through stand. )																																				
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<b>62</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	62.3	16	Immature	N/A	Some aspen just getting into pole size. Square grassy opening around a large oak tree looks like well pad from aerial imagry. Appears to be actively mowed site with no access to from state land.Old comment- (OPIC - FMD: A3 stand with oak and red maple present as well. Most of oak is of stump sprout origin and is of poor quality. Some seed origin oak present which is of better quality. Lots of wildlife use within stand. Rolling topography, developing into nice stand.)																																				
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<b>63</b>	6225 - Bog	Nonstocked	2.5			No	See old comments.  Old Comments-((OPIC - FMD: Bog on norther side of tank trail. Some short JP snags standing within bog but no spruce/fir overstory as in stand 163 to the south of tank trail. Leatherleaf on ground, some lowland shrubs throughout. (old comment) Over by stand 8, swamp conifers in south part.)																																				
<b>64</b>	4131 - Aspen, Oak	Poletimber Well	57.7	36	51-80	N/A	Pole size aspen mostly 6-8". Some oak getting into 8" d-class, but most are 6". Maple is still mostly sub-merch. Oak is mixed in through most of stand with small oak dominated pockets throughout.Old comments- (OPIC - FMD: A3 stand on the verge of being merchantable. Lots of oak mixed in along with RP and JP. Some WP present in spots. Snowmobile trail traverses stand. (old comment) STAND WAS COMMERCIALY CUT IN 1983.)																																				
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65	500 - Water	Nonstocked	32.5		Unspecified	No	Checked site September 2, 2019. A handful of stems have resprouted in the initial treatment area. One outlier stems was noted on the mudflat to the northwest. No flowering stems yet. Old Comments: Jones Lake, with Quality Fishing regulations in place. Two small patches of Eurasian Phragmites were identified near an informal boat slip north of the Jones Lake State Forest Campground day-use area. The patches were treated in 2017 (H72-836) with an aquatics-approved glyphosate solution, applied by hand-swiping individual stems. The patches were checked in July 20, 2018; no live stems were visible. Lakeshore was re-checked by kayak 9-2-19. Phrag at treated site is re-sprouting (no seed heads established). Outlier phrag stem noted on mudflat to north. Re-treat in 2020.
66	500 - Water	Nonstocked	1.7			No	See old comments.  Old Comments- (OPIC - FMD: Small area of open water on SW edge of Jones Lake. During periods of high water, this area is part of Jones Lake.)
67	500 - Water	Nonstocked	1.0			No	See old comments.  Old Comments- (OPIC - FMD: Small area of open water on southern side of Jones Lake. During periods of high water, this area is part of Jones Lake.)
68	500 - Water	Nonstocked	7.2			No	OPIC - FMD: Southern end of KP Lake. Public access to lake is at southern end, accessed through stand 48. (no old comment)
69	500 - Water	Nonstocked	0.3			No	OPIC - FMD: Southern tip of Little KP Lake (Private). (no old comment)
107	6225 - Bog	Nonstocked	3.7			No	See old comments.  Old Comments- (OPIC - FMD: Bog with low L-type shrubs throughout. Some pockets of standing water, evidence that stand is part of Jones Lake during times of high water. Some small snags of birch and jack pine around perimeter indicating fluctuating water tables/levels within stand.)
129	4130 - Aspen	Sapling Well	11.2	18	Immature	N/A	Drainage on northeast side of stand has heavy oak and looks to be seasonably wet at bottom. Aspen in south half of stand is a smaller than north half and has more oak and jack pine mixed in. Old Comment- (OPIC - FMD: A3 stand growing fairly well since being cut in 2001. Previously this stand was part of stand 29 and along with stand 25 was the only area to be harvested before contract was returned to state with portions of sale uncut. Stand 29 is prescribed again this YOE in an attempt to get northern portions cut. (old comment) South half cut all, North half cut all except oak over 8 inches DBH, steep hill on east side. Twp. Supervisor said no problem with no buffer for this stand along Co. RD. 612. Stand is part of timbersale (7204101-01) which was sold to Helsel Forest Products who were high bidders. After cutting unit 4 only (17 acres), went out of business. Sale will be re-advertised with the reduced acres and forest product.)

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	84	Sapling/Pole	3	18
Black/Red (Hybrid) Oak	7	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>130</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.5	82	111-140	N/A	Stand located on high ridge overlooking Jones Lake and highway 612 (highly visual). Good oak regen through most of stand, but heavily browsed. Old comments - (OPIC - FMD: Oak stand of poor quality. Aspen, red pine and red maple present as well. Aspen in descent #'s in some places. Some pockets of fair oak regeneration, not great. Wait until next YOE in order to increase BA and DBH and then final harvest with stand 30 to the north which was previously part of stand 130 but is now separated because of small G0 stand-411.)																																					
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<b>135</b>	42220 - Natural Jack Pine	Sawtimber Medium	37.1	66	51-80	N/A	Jack pine mortality throughout stand. Cherry brush taking over some of the mortality pockets. Stand is adjacent to Highway 612.  Old comments- (OPIC - FMD: Nice JP stand with some poor quality oak and scattered RP present. JP is doing well, some mortality but not as much as would be expected in a stand of this age and density. Lots of DWD from both oak and JP that have fallen. Some small aspen pockets on eastern side of stand. Stand 135 was previously part of this stand but was separated because of Stephan Bidge Rd running through stand. (old comment) Stand 38 is the cut area for this stand. No need for a fuel break along Stephan Bridge rd.)																																					
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<b>138</b>	4132 - Aspen, Jack Pine	Sapling Poor	16.4	16	Immature	N/A	Unplanted stand split from parent stand 38. Dense aspen in west side of stand. East side is more open cherry brush, oak, and natural jack pine. There are a couple stringers of planted jack pine that cut through the east side of the stand that are currently heavily used wildlife corridors. Harvested in 2003, Multiple Appendage (72-034-01). No old comments.																																					
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<b>161</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	6.6	27	1-50	N/A	There's a pocket of mature saw size jack pine and aspen on south side of 2-track. Most of stand is pole size timber. Stand split from 61 since it was not planted to red pine. (no old comment)																																					
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<b>163</b>	6224 - Treed Bog	Nonstocked	5.0			No	OPIC - FMD: Bog on southern side of tank trail. This bog was previously part of bog on north side of tank trail, stand 63. Separated because this stand has more overstory spruce/fir present. Also has quite a few jack pine snags standing near perimeter of stand with some larger-live individuals in treed portion. (old comment) Over by stand 8, swamp conifers in south part.																																					
<b>238</b>	4130 - Aspen	Sapling Medium	16.3	16	Immature	N/A	Unplanted stand split from parent stand 38. Dense aspen through most of stand. East side is more open cherry brush, oak, and natural jack pine. Harvested in 2003, Multiple Appendage (72-034-01). No old comments.																																					
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<b>338</b>	42220 - Natural Jack Pine	Sapling Medium	9.1	16	Immature	N/A	Unplanted stand split from parent stand 38. Dense pockets of aspen with open grassy areas mixed in throughout stand. Oak and aspen mixed through some of the stand. Some scattered pole size jack pine, red pine, oak, and white pine that look like they were advanced regen protected during harvest. Harvested in 2003, Multiple Appendage (72-034-01). No old comments.																											
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<b>401</b>	3102 - Grass	Nonstocked	5.1			Managed Opening	Open field adjacent to fenced in military installation. Looks like it may be mowed periodically. Scattered white pine, hybrid oak, and cherry closer to the Ausable.  Old Comment-OPIC - FMD: Grassy opening with scattered shrubby JP and cherry. Could be called u-type or GO. Knapweed present along tank trail with some big/little bluestem on interior of stand. Facility in compartment to the west, shooting range?																											
<b>409</b>	3102 - Grass	Nonstocked	81.6		Unspecified	No	See old comments-OPIC - FMD: Budweiser Hill area. Lots of tracked vehicle use within stand. Some erosion on hill. Scattered shrubby JP, mostly in NW portions of stand. (old comment) Has areas of brush and JP, military tracked vehicle use area. Firing point 600 is in stand.																											
<b>411</b>	4126 - White, Black, N. Pin Oak	Sapling Medium	1.1	16	Immature	N/A	Stand has converted from opening to forested. Oaks recruited 10-20' and dominate the canopy now. Some older jack pine in stand, but not enough to call it 2 aged. Old Comment- (OPIC - FMD: New stand, grassy opening separating stands 30 and 130. Some shrubby jack pine on eastern side of stand. Some cherry brush within stand. Previously was part of stand 30 and is the reason stand 30 was broken up.)																											
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<b>423</b>	3102 - Grass	Nonstocked	10.5			No	Opening was drawn to include powerline and road ROW. OPIC - FMD: Grassy opening along CR-612. Some JP and RP with occasional oak seed/saps. Some erosion from 2-tracks within stand that go up and down a few of the sloped areas. (old comment) By the road some JP.																											
<b>445</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	2.4	54	1-50	N/A	Converted stand from non-forested to forested. Still a lot of open area in stand. Aspen looks to be around 40 years old. Old Comments- (OPIC - FMD: Some shrubby jack pine beginning to encroach on stand. Will possibly be a J4 stand next YOE, however not yet merchantable/very poor quality. (old comment) Some JP crowding in.)																											
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